

Sanctions, Energy, Arms Control, and Regime Change

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Note: This report is will be updated. Please provide comments and suggestions to acordesman@gmail.com

Executive Summary

This report analyzes US and Iranian strategic competition in four key areas – sanctions, energy, arms control, and regime change. Its primary focus is on the ways in which the sanctions applied to Iran have radically changed US and Iranian competition since the fall of 2011. This escalation has been spurred by Iran's ongoing missile deployments and nuclear program, as reported in sources like the November 2011 IAEA report that highlights the probable military dimensions of Iran's nuclear program.

It has also been spurred by incidents like the Iranian-sponsored assassination plot against the Saudi Ambassador to the US, an Iranian government instigated mob attack on the British Embassy in Tehran on November 30, 2011, various Iranian threats to "close" the Gulf to oil traffic, and the Iranian-linked attacks against Israeli diplomats.

A New Round of Sanctions

There is nothing new about sanctions on Iran. The US first applied them to Iranian property in the US and arms transfers to Iran after the fall of the Shah in 1979. As the following analysis shows, the US has steadily applied broader unilateral sanctions and pushed for similar international action. The history of such efforts, however, has been mixed. They have restricted many aspects of Iran's military build-up, but they have not prevented Iran from making major progress in their asymmetric warfare capabilities, its missile programs, and acquisition of nuclear technology. Past economic sanctions had limited practical impact on Iran even when the UN applied sanctions on Iran's nuclear programs. Iran had the time and options to reduce their impact, and many experts felt that Iran's own internal economic policies put more pressure on their economy than US and UN sanctions.

During 2011, however, Iran's steady progress towards a nuclear weapons capability led to a new round of far stronger sanctions from the US and its European allies on both Iran's energy exports and ability to trade and operate its financial system. The US applied sanctions on Iranian banks, Iranian companies involved in its nuclear industry, and Iranian companies involved in the petrochemical and oil industries. The EU sharply increased its role in sanctioning Iran by imposing an embargo on Iranian petrochemical imports and a ban on European investment in Iran's petrochemical industry.

The end result is that US and EU actions have put acute pressure on Iran since the fall of 2011:

- On October 15th, the European Union instituted additional sanctions against Iran's banking system, oil and petrochemical industry, and shipping industry. The EU decision prohibits any transactions between European and Iranian banks except for those authorized in advance. It also bans the export of graphite, aluminum, steel, and industrial facility control software. The decision prohibits the provision of flagging and classification services to Iranian tankers and cargo vessels in the EU or by EU nationals. Finally, the decision also forbids EU companies from providing shipbuilding technology and naval equipment to Iran. Broadens the export ban on equipment for Iran's oil, gas, and petrochemical industries.
- In August, Iranian oil exports continued to fall as importers reduced purchases. Iran exported roughly 860,000 barrels of oil per day (bpd) according to IEA estimates, down from 940,000 bpd in July. Iranian production was down as well reaching 2.85 million barrels per day (mbpd) and falling to 2.63 mbpd in September, the lowest level in 23 years. Over the past year Iranian oil production has fallen more than 1 mbpd.
- On July 1st, the European Union's embargo of Iranian petroleum products entered into force. This has had a major impact on Iran's oil exports, as oil sales to the EU accounted for roughly 23% of Iran's total

- exports. Total Iranian oil exports in July was estimated at 940,000 bpd, down from 1.7 million bpd in June and 2.8 bpd July 2011. Oil export revenue fell from \$9.8 billion in July 2011 to \$2.9 billion in July 2012.
- In May 2012, President Obama signed into law the "Iran Threat Reduction and Syria Human Rights Act of 2012" which strengthened sanctions against Iran's energy sector by increasing the number of sanctions the Administration is required to impose from three to five. The law also imposes sanctions against foreign companies who conduct business in Iran's energy sector and any company that insures, sells, or leases oil tankers to Iran. This action has led to higher insurance costs for Iranian tankers and has resulted in major insurance companies refusing to insure Iranian ships.
- On March 15, 2012, the Society for Worldwide Interbank Financial Telecommunication, or SWIFT, complied with EU instructions to, "discontinue its communications services to Iranian financial institutions that are subject to European sanctions." SWIFT is essential to international banking because it provides a secure worldwide financial communication and transaction network to more than 10,000 financial institutions and corporations in 210 countries. In 2010, SWIFT reported that 19 Iranian banks and 25 Iranian financial institutions used the network over 2 million times during the course of the year. All banking transactions with Iran, international insurance coverage in Iran or for Iranian oil transportation, and all transitions with Iran's state-owned oil company and its main tanker fleet, are affected by this decision.
- On March 8 2012, the House Foreign Affairs Committee reinforced earlier legislation by introducing with H.R. 4179, "The Iran Financial Sanctions Improvement Act of 2012", expanding sanctions to cover other energy-related commerce. Concurrently, the same committee introduced H.R. 4173 the "Prevent Iran from Acquiring Nuclear Weapons and Stop War Through Diplomacy Act", designed to "direct the President to appoint a high-level United States Representative or special envoy for Iran" for the purposes of pursuing diplomatic means "to prevent Iran from acquiring a nuclear weapon". However, neither H.R. 4179 nor H.R. 4173 have moved forward and are currently stalled in committee.
- At the end of February 2012, the Treasury Department strengthened the preexisting Iranian Financial Sanctions Regulations (IFSR) with the implementation of subsection 1245(d). The amendment extended sanctions to "foreign financial institutions that knowingly conduct or facilitate certain significant financial transactions with the Central Bank of Iran (CBI) or a U.S.-designated Iranian financial institution". In accordance with these actions, the Secretary of Treasury will impose sanctions on privately-owned foreign institutions, as well as government-owned or controlled financial institutions that conduct business with the Central Bank of Iran.³
- On February 5, 2012, President Obama issued Executive Order 13599, which implemented section 1245 of the FY2012 NDAA that froze the assets of the Iranian government and prevented all Iranian financial

¹ Rick Gladstone and Stephen Castle, "Global Network Expels as Many as 30 of Iran's Banks in Move to Isolate Its Economy," New York Times, March 16, 2012, http://www.nytimes.com/2012/03/16/world/middleeast/crucial-communication-network-expelling-iranian-banks.html?_r=1; Thomas Endbrink and Joby Warrick, "Grim Outlook on Nuclear Talks," Washington Post, March 16, 2012, p. A7.

² Indira A.R. Lakshmanan, "Iran Sanctions Bid Targets Oil, Tanker Companies to Cut Exports," Bloomberg, Feb 6, 2012; Indira A.R. Lankshmanan, "Global Insurers Targeted in Latest U.S. Bid to Expand Sanctions on Iran, Bloomberg, Mar 8, 2012; Al-Arabiya, U.S. Lawmakers Take Next Step on New Iran Sanctions on Heels of European Embargoes, Jan 31, 2012; http://english.alarabiya.net/articles/2012/01/31/191608.htm; AP sources: Congress to seek new sanctions targeting all Iranian banks Associated Press, March 6, 2012, http://www.washingtonpost.com/politics/federal_government/ap-sources-congress-to-seek-new-sanctions-targeting-all-iranian-banks/2012/03/06/gIQA1p0XvR_print.html., "Iran Sanctions Bid Targets Oil, Tanker Companies to Cut Exports," Bloomberg, Feb 6, 2012 2:26 PM ET; Indira A.R. Lakshmanan, Global Insurers Targeted in Latest U.S. Bid to Expand Sanctions on Iran, Bloomberg, Mar 8, 2012 11:10 AM ET; Al Arabiya, U.S. lawmakers take next step on new Iran sanctions on heels of European embargoes, Tuesday, 31 January 2012;

³ U.S. Department of the Treasury, "Factsheet: Treasury Amends Iranian Financial Sanctions Regulations to Implement the National Defense Authorization Act", February 27, 2012.

assets in the U.S. from being "transferred, paid, exported, withdrawn, or otherwise dealt with". ⁴The order also implemented new sanctions that required US banks to seize the funds of those on the Specially Designated Nationals (SDN) list, even if the funds are not destined to a US entity or firm. Previously, US banks were required to block the transaction and return the funds to the sender. This order effectively blocks the Iranians from using the US banking system.

- In January 2012, the European Union, which accounts for roughly one-fifth of Iran's oil exports, introduced new sanctions to be phased in over the course 2012. The EU embargo prohibits the purchase, transportation, and importation of Iranian crude oil, the exportation of petrochemical equipment and technology, as well as related financial investments including insurance. Existing European contracts are allowed to continue until July 1, 2012. Additionally, the EU froze the Central Bank of Iran's European assets, and banned the trade of gold and other precious materials between Europe and the CBI.⁵
- In November 2011, the US Treasury Department introduced new unilateral sanctions under the auspices of the Comprehensive Iran Sanctions, Accountability, and Divestment Act of 2010 (CISADA). These new sanctions targeted Iran's petrochemical industry, the CBI, the financial sector, transportation infrastructure, and added dozens of names to the list of sanctioned individuals. These restrictions bar institutions from conducting any business with any Iranian banks including the CBI and its affiliates as well as expand sanctions on Iranian individuals and placed new restrictions on the importation of Iranian goods.
- On November 21, 2011, the US Treasury Department designated Iran's entire financial sector, including the CBI as "money laundering entities" under Section 311 of the USA Patriot Act.
- On December 31, 2012, President Obama signed the FY2012 National Defense Authorization Act (S.1867) that contained an amendment that required the President to bar foreign banks from opening accounts in the United States if that bank processed payments for oil through the CBI. Section 1245 of the FY2012 NDAA imposed unilateral sanctions on CBI in ways that impose major penalties against entities including corporations and foreign central banks which engage in transactions with the CBI. The sanctions on transactions unrelated to petroleum were to come into force 60 days after the bill was signed. Sanctions on transactions related to petroleum were take effect a minimum of 180 days after the bill's signing. The amendment provided for a renewable waiver of 180 days if the President determined that doing so is in the interest of the United States.
- In December 2011, the State Department launched a "virtual embassy" for Iran. This consisted of a website which was quickly blocked by Tehran amidst allegations that the US was attempting to recruit spies and foster regime change. US State department officials claimed that the site was merely an attempt to inform Iranians about student visas and explain US policy towards Iran. It appears that the effort intended to weaken support for the regime among young, technically savvy Iranians. This was one of a series of attempts to make pro-American media and resources available to populations inside Iran.
- In December 2011, the European Union announced tighter sanctions on groups and individuals associated with Iran's nuclear program.
- Currently, the Senate and House of Representatives are working on bills that seek to blacklist essentially
 every Iranian bank, threaten penalties against foreign companies that deal with any of these banks, and to
 target communications, software, and technology companies that conduct business with Iranian banks. This
 legislation would interact with the EU action on SWIFT, and affect all Iranian institutions and any foreign
 institution that acted a front or cover for Iran. Members of Congress state that while the U.S. Treasury has

⁴ "Executive Order—Blocking Property of the Government of Iran and Iranian Financial Institutions", The White House, Office of the Press Secretary, February 6, 2012.

⁵ "EU Iran sanctions: Ministers adopt Iran oil imports ban", BBC News, January 23, 2012.

already blacklisted 23 Iranian banks, Iran is using more than 20 other banks to finance its nuclear program and provide support for regional militant groups.⁶

Much depends on how the US and EU sanctions effort is handled in the future. The Obama Administration and Congress are steadily tightening sanctions, but it is doing so carefully and in ways that focus on multilateral, rather than unilateral US action. Additional sanctions will be pursued gradually and in ways that maximize multilateral buy-in. The Iranian financial, oil, transportation, and petrochemical sectors will continue to be isolated, to the extent possible. And the Administration will attempt to inform and empower population centers within Iran through channels such as the State Department's "Virtual Embassy" program, in hopes that an opposition movement will again challenge the regime as external financial constraints and domestic mismanagement continue to cause economic stagnation.

The Obama administration is also continuing military pressure by showing that "all options are on the table." Statements by top US officials seek to communicate in clear terms the costs Tehran faces for continued obstinate and uncooperative behavior. On March 7, 2012, Defense Secretary Leon Panetta told the *National Journal* that the Pentagon is preparing an "array of military options for striking Iran if hard-hitting diplomatic and economic sanctions fail to persuade Tehran to drop its nuclear ambitions". This comes despite earlier statements by Secretary Panetta that doubts the effectiveness of a military strike. And in February, Panetta acknowledged that "at best," a military strike might set back Iran's nuclear program "by one, possibly two years".

The Impact of Sanctions and the Iranian Reaction

The effects of the US and EU sanctions established in late 2011 and 2012 are already reducing Iranian energy exports and revenues, crippling foreign direct investment in Iran, and creating serious banking and trade problems. The Iranian Rial has become destabilized, and has steadily fallen to record lows as currency markets have reacted to the prospect of limited foreign trade, declining Iranian reserves, limits on Iran's oil exports income, growing problems in working with Iran' financial system, and growing detection efforts and penalties for violating sanctions.

In spite of the fact most Iranian officials continued to deny the impact and effectiveness of sanction through late September 2012, and attack the US for such efforts, shows that some Iranian officials and experts did make relatively frank admissions that sanctions were having a major impact even in 2011. For example, President Ahmadinejad declared before Iran's parliament in late 2011 that the then current sanctions against Iran were "the heaviest economic onslaught on a nation in history," adding "every day, all our banking and trade activities and our agreements are being monitored and blocked."

Since that time, Iran has mixed denial with a growing degree of realism:

⁶ Laurence Norman and Jay Soloman, "EU-US Split on Iran Banks Seen as Widening," Wall Street Journal, March 16, 2012.

⁷ "Panetta: Pentagon Planning for Potential Strikes", Yochi Dreazan, The National Journal, March 8, 2012.

⁸ "U.S. intelligence chief sees limited benefit in an attack on Iran", Ken Dilanian, The Los Angeles Times, February 16, 2012.

⁹ "Iran's growing state of desperation", Fareed Zakaria, FareedZakaria.com, January 4, 2012.

- On October 2nd President Ahmadinejad admitted that oil and banking sanctions have had an impact saying, "One factor is from outside, and one factor is from inside. The enemy has stated that it will impose (more) sanctions, and part of the oil purchases from Iran has decreased, and a considerable segment of our foreign currency revenues was generated through oil sales...What is worse than the oil sanction is the sanctions on banking transactions. If oil is sold, the payment cannot be transferred, and a massive and great secret war (against Iran) is actually underway in the world." However, he blamed physiological pressures rather than government policies for the economic problems, "Are these currency fluctuations because of economic problems? The answer is no... Is this because of government policies? Never ... It's due to psychological pressure. It's a psychological battle."
- President Ahmadinejad stated in a September 5, 2012 interview that sanctions constituted a "...all-out, hidden, heavy war" and that sanctions were impeding the economy, "there are barriers in transferring money, there are barriers in selling oil, but we are removing the barriers."
- In March, Iran's Supreme Leader Ayatollah Khamenei discussed the possibility for dialogue between Iran and the West saying, "[t]his is good talk and shows and exit from delusion." However even Khamenei's rare conciliatory statement was followed with "But the U.S. president continued saying that he wants to make the Iranian people kneel through sanctions. This part of this speech shows the continuation of illusion in this issue." 13
- In February 2012, Iranian President Mahmoud Ahmadinejad said before Parliament that the current sanctions regime was "the heaviest economic onslaught on a nation in history".
- On January 24, 2012, Mohsen Qamsari of the National Iranian Oil Company declared to the Mehr News Agency that, "Iran can readily find new customers for its oil. We have no problem in selling oil."
- However, two days prior, on January 26, the former Iranian Oil Ministry deputy, Mehdi Hosseini, admitted that, "Losing the European oil market will have an impact on Iran's economy which needs rational planning by the authorities. Selling oil at sub-market level prices is not a good way to counter the oil embargo."
- On February 17, 2012, Iran's senior nuclear negotiator, Saeed Jalili, declared his country's "readiness for dialogue" at "the earliest possibility".
- Furthermore, Iran has issued serious threats to "close the Gulf' and has carried out missile tests and military maneuvers. Iran's threats and exercises have also been followed by announcements that it is creating a new, far better sheltered underground uranium enrichment facility and is deploying improved centrifuges.

Outside estimates of the impact of sanctions remain uncertain and are constantly changing, but they do seem to provide a valid indication that they are now having a growing and major impact. The US Energy Information Agency (EIA) estimated in July 2012 that the growing impact of sanctions was impacting Iran's ability to produce oil. The EIA announced that it "expects Iran's crude oil production to fall by about 1 million bpd by the end of 2012 relative to an estimated output level of 3.6 million bpd at the end of 2011, and by an additional 200,000 bpd in 2013. Iran has no chance for the foreseeable future of meeting its stated goal of some 5.3 m/bpd of

¹⁰ http://www.tehrantimes.com/politics/102022-iran-will-overcome-economic-problems-ahmadinejad

¹¹ http://www.guardian.co.uk/world/2012/oct/02/ahmadinejad-iran-currency-psychological-war?newsfeed=true

¹² http://english.farsnews.com/newstext.php?nn=9106061782

¹³ "Iran's Ayatollah Khamenei Gives Rare — If Brief — Praise For U.S.", Eyder Peralta, NPR, March 8, 2012.

production capacity."¹⁴ Those estimates appear to be correct as Iranian oil production hit 2.63 million bpd in August according to the IEA.¹⁵

US financial sanctions and EU insurance provisions have also impeded other countries' ability to finance and pay for transactions in Iranian oil, leading to reports that Iran's ability to produce oil has outstripped its ability to sell it. The EIA estimated in September 2012 that, "EIA's forecast of Iranian crude oil production is unchanged from last month's Outlook, with forecast production falling by about 1 million bbl/d by the end of 2012 relative to an estimated output level of 3.6 million bbl/d at the end of 2011, and by an additional 0.2 million bbl/d in 2013."

The US Treasury announced in September 2012 that it estimated that Iranian oil exports had dropped by 1 million barrels of oil from levels of 2.4 million barrels a day in 2011 – or roughly \$80 billion in currency reserves it had had a year ago. ¹⁸ The Undersecretary of the Treasury, David Cohen, stated that, "This decrease in exports is costing Iran about \$5 billion a month, forcing the Iranian government to cut its budget because of a lack of revenue...Sanctions have effectively terminated international access for most Iranian banks...Today, the Iranian government is relegated to the backwaters of the international financial system, and they know it." ¹⁹

It is far too soon to make accurate estimate for a nation with notoriously politicized and inaccurate macroeconomic data, but some of the costs are clear. Iran's currency, long held artificially high by a regime that could afford to subsidize it, has nose-dived since the implementation of more stringent sanctions. It a has lost more than 50% of its value between September 2011 and September 2012 and was trading at around 28,000 Rials to one dollar, down from 13,000 in September 2011. According to some reports, this raised the real rate of annual inflation from the 29% the government claimed to almost 70%. Moreover, the Rial lost nearly 40% more of its value during the first week of October 2012. 12

By October 2012 food prices were rising so quickly that major changes were taking place by the day, and key foods like chicken had become unaffordable for many Iranians. The first public riots about the economy and rising prices took place, and some outside experts estimated Iran

 $[\]frac{^{14} \, http://www.upi.com/Business_News/Energy-Resources/2012/07/11/Irans-oil-production-slumps-EIA-says/UPI-75241342016878/$

¹⁵ http://www.reuters.com/article/2012/10/12/iran-oil-exports-idUSL5E8LCK5M20121012

http://www.upi.com/Business_News/Energy-Resources/2012/07/11/Irans-oil-production-slumps-EIA-says/UPI-75241342016878/#ixzz28Kdmh66R

¹⁷ EIA, Short Term Energy Outlook, September 11, 2012, http://www.eia.gov/forecasts/steo/report/global_oil.cfm, and

¹⁸ Jonathan Spicer, "U.S. says Iran oil exports down dramatically," http://in.reuters.com/article/2012/09/12/usa-sanctions-idINL1E8KCKRX20120912.

¹⁹ Jonathan Spicer, "U.S. says Iran oil exports down dramatically," http://in.reuters.com/article/2012/09/12/usa-sanctions-idINL1E8KCKRX20120912.

²⁰ Thomas Erdbrink, "Iranian currency slides under latest U.S. sanctions," *Washington Post*, January 2, 2012.

²¹ Joby Warwick and James Ball, "Iran's economy may offer opening," *Washington Post*, October 5, 2012, p. A1 and A8: Jay Newton-Small, "The Iranian currency Crisis: Three Possible scenarios," *Time*, October 4, 2012, http://swampland.time.com/2012/10/04/the-iranian-currency-crisis-three-possible-scenarios/; Thomas Erdbrink, "As Iran Currency Keeps Tumbling, anxiety is Rising," *New York Times*, October 5, 2012, p. A1.

had lost half of the \$80 billion in currency reserves it had had in 2011.²² The Economist Intelligence Unit estimated in September that they would cut the Iranian GDP by at least 1.2% in 2012-2013 – a forecast that seemed highly optimistic as the impact of sanctions accelerated later in the fall of 2012.²³

These problems with the Rial and oil income sharply affected access to food in a country that received some 60% of its finances from oil exports, and where the World Trade Organization estimated imported \$8.2 billion worth of food and \$9.4 billion worth of agricultural products in 2012.²⁴ It has reduced meat consumption, led to the buying and hoarding of gold and dollars, sharply reduced foreign and domestic investment, strained government revenues, and forced Iran into massive new efforts to use third parties and other nations to disguise its economic activities.

It is still unclear how these forces will play out. The initial popular protests in the fall of 2012 seemed to focus more on Ahmadinejad than the Supreme Leader and regime as a whole, but it was far too early to determine how serious they would become.

There were reports in early October 2012 that that Iran had offered a new plan to end the nuclear confrontation. ²⁵ The plan was said to be largely a rehash of past negotiating proposals that called for early dismantling of the sanctions, and a slow dismantling of the key enrichment sites like Fordow in ways that could allow Iran to move its enriched stocks and send them to other concealed centrifuge facilities or store them for a future breakout attempt.

The reports indicated that this plan was rejected by the United States because it would allowed Iran to continue to enrich Uranium until sanctions were completely removed, and allow Iran's stockpile of 20% enriched Uranium to remain in the country – making it easier for Iran to retain a "breakout" capacity. The reported plan indicated Iran might have calculated that the end result would be to dismantle the sanctions effort in ways the US and EU could not rebuild, and simply be a variant on Iran's past "negotiate and proceed" tactics. Such reports were, however, at least a sign that sanctions might drive Khamenei to accept a serious agreement.²⁶ Two days later, however, Iranian officials dismissed the report. They claimed the report was "baseless," and that "Iran has never delivered any new proposal other than what had been put forward in talks with the P5+1."

These mixed reports should be considered in the context that Iran had become steadily more critical of the IAEA since the spring of 2012 – increasingly implying that the IAEA's activities and reports were an extension of US and Western sanctions efforts and intelligence activities. IAEA officials also became the target of anti-IAEA protests in Tehran from mid-August on.

²² Joby Warwick and James Ball, "Iran's economy may offer opening," *Washington Post*, October 5, 2012, p. A1 and A8: Jay Newton-Small, "The Iranian currency Crisis: Three Possible scenarios," *Time*, October 4, 2012, http://swampland.time.com/2012/10/04/the-iranian-currency-crisis-three-possible-scenarios/; Thomas Erdbrink, "As Iran Currency Keeps Tumbling, anxiety is Rising," *New York Times*, October 5, 2012, p. A1.

²³ EIU, "Iran," September 2012, p. 3.

²⁴ Thomas Erdbrink, "Iranian currency slides under latest U.S. sanctions," *Washington Post*, January 2, 2012; EIU, "Iran," September 2012, p. 6.

²⁵ David E. Sanger, "Iranians Offer Plan to End Nuclear Crisis," New York Times, October 5, 2012, p. A6.

²⁶ David E. Sanger, "Iranians Offer Plan to End Nuclear Crisis," *New York Times*, October 5, 2012, p. A6.

²⁷ http://www.nytimes.com/2012/10/07/world/middleeast/iran-denies-report-of-plan-to-end-nuclear-standoff.html

Iran also took a far harsher tone with the IAEA in the days that followed reports of a new Iranian negotiating proposal and Iran's denial. Iran accused the international agency's inspectors of sabotaging Iran's electrical grids supplying Iran's Fordow and Natanz enrichment plants during August's IAEA inspection. Iranian officials also accused the agency of tampering with equipment and Fereydoun Abbasi, Iran's chief nuclear official said that, "Terrorists and saboteurs might have intruded the agency and might be making decisions covertly."²⁸

These developments may have reflected and Iranian effort to prepare for either downgrading its relationship with the IAEA or removing the inspectors altogether. An increasingly hostile relationship between Iran and the IAEA would seriously imperil future negotiations. While the outright removal of inspectors would instantly increase tensions to the point that Israel may seriously consider a preemptive strike.

Implications for US Policy

It is not clear whether the regime will react to these pressures by negotiating a meaningful agreement with the P5+1 and actually ending its nuclear program, or whether it will react by pursuing such programs regardless of their cost and/or lashing out at targets in the Gulf, other US targets, or US allies. As Chapters III and IV have discussed, the US must be ready for contingencies that could trigger a significant clash or conflict in the Gulf, where Israeli preventive strikes or US military action escalates to the point where the US might have to strike at Iran's asymmetric or conventional forces in the Gulf and/or nuclear and missile programs.

While the US should pursue sanctions and diplomatic options, it must also begin to make hard long-term plans regarding the possibility that sanctions and diplomacy fail.

If negotiations fail, this means choosing between containment and preventive strikes. As other sections of this analysis show, both options present serious risks as well as advantages. It would seem that if the US does strike, it should be prepared to strike decisively against the full range of Iranian capabilities, be prepared for restrikes, and be prepared to provide a lasting military overwatch as long as Iran shows any sign of rebuilding its nuclear program. However, the analysis of these choices is sharply limited by the fact so much of the information required is highly classified.

Key Near-Term Choices

In the near-term, the US needs to do everything it can to ensure that sanctions lead to successful negotiations. This means pursuing the following options:

- The US should do everything possible to create UN, multilateral, and unilateral sanctions that are as effective as possible. The time for gradual approaches is over. If there is to be a peaceful outcome to this conflict, it must come before Iran tests a nuclear device or deploys a nuclear weapon. It must come before Israel takes preventive action, the region becomes locked into a nuclear arms race, or Iran creates a technology base so advanced that current IAEA inspection methods cannot detect a covert nuclear weapons program.
- Make it clear that the US and its allies offer Iran incentives to halt and reverse sanctions. Show other countries that the US and the P5+1 offer Iran real incentives to halt illicit weapons related activities, and explain and justify sanctions in terms that nations in other regions can understand. Sanctions are not enough. Iran needs to see that the US and the rest of the P5+1 will offer incentives in terms of enrichment,

 $[\]frac{28}{\text{http://www.washingtonpost.com/world/national-security/with-sabotage-charge-iran-takes-hostile-tone-with-unwatchdog/2012/10/07/c738fbbc-0f36-11e2-bb5e-492c0d30bff6_story_1.html$

fuel supplies, sanctions relief, in addition to trade, investment, and energy development. If sanctions are the "stick." the US must act to ensure that there are real and immediate carrots.

- The US must work closely with its European, Gulf, and Israeli allies. The US cannot assume its allies will follow if it does not communicate, consult, and treat them as partners. This is an area where the US must be transparent enough to convince the world it is not repeating the mistakes it made in going to war in Iraq, that it will not act precipitously, and it will listen as much as it attempts to lead.
- Make a convincing case to the Iranian people, its allies and the world that Iran is seeking to obtain nuclear weapons. It is not enough to cite IAEA reports and continue diplomatic pressure. The US must continue to work with the IAEA and key allies to show the dangers in Iran's actions and make the threat it poses convincing. Explain how a crisis in the Gulf could threaten all countries including the developing countries outside the region. Make the case through effective strategic communications and as objectively as possible.
- Use arms transfer efforts to supplement sanctions. The US must continue to ensure that China, Russia, and other nations will not from transfer advanced arms and military technology to Iran, nor any technology and equipment that could be used to develop nuclear weapons. In the past few years, Russian and Chinese arms transfers to Iran have dropped significantly this needs to continue. At the same time, as is outlined in Chapter VI, it must would with its Arab Gulf allies and Turkey to give them a strong a mix of defenses and deterrents, help Israel the security needed to reduce the incentive for preventive strikes, and as is discussed in Chapter VII do what it can to make Iraq secure and a real security partner.
- Work with the UN, IAEA, and its allies to update the agreements necessary to ensure full compliance with a meaningful and verifiable nuclear agreement. It will not be enough for Iran to allay the immediate concerns raised by the IAEA. It must be clear that any negotiation ends in a viable agreement.
- Avoid aggressive interference in the form of regime change, but support strategic communications from Iranian exiles and encourage internal movement towards moderation and democracy. Focus on regime modification when dealing with the nuclear issue and the threat in the Gulf, but leave regime change to Iranians.

Arms Control Offers Hope But a WMD Free Zone Offers Little Probability of Success

The US must support arms control as a policy option through enforcement of the NNPT and provide the IAEA the necessary tools and freedom of action. However, a weapons of mass destruction free zone has virtually no chance of being negotiated in a meaningful form for five reasons:

- Iran's emphasis on its nuclear and missile programs,
- Israel's need to maintain nuclear and missile forces,
- The lack of any real prospects for a full Arab-Israeli peace,
- Arab missile, chemical, and biological weapons programs and growing interest in nuclear programs, and
- The growing difficulty in creating verification and inspection regimes.

The Uncertain Result: Giving Diplomacy Priority While Preserving Security

Sanctions and diplomacy are the best of a bad (or at least highly uncertain) set of options, but it is far from clear that they will stop Iran's progress toward a nuclear weapons capability. Despite the lack of diplomatic progress, and the appearance that the Iranians are stalling for time, negotiations can still be successful. Negotiations can bring about long-term change in the US-Iranian relationship where military strikes or more sanctions cannot.

The risks become higher as time goes on and as and this aspect of US and Iranian competition turns into a "long game." So far, Iran has backed away from military confrontation, but it is far less clear what will happen if sanctions result in a prolonged confrontation. Iran has at least as much to lose as any other Gulf state if it halts oil traffic through the Gulf. Iran also cannot hope to win any serious conventional conflict with the US and its Gulf allies, and will therefore attempt to use asymmetric means to confront the US.

Iran's increasingly belligerent statements and actions have already affected the price of oil. Oil prices rose around the world in February 2012 when Iranian officials responded to new European sanctions by halting exports to Britain and France. Two days later, the head of the Iran's armed forces, Mohammad Hejazi, hinted at Iranian preemptive action, stating, "Our strategy now is that if we feel our enemies want to endanger Iran's national interests...we will act without waiting for their actions."

If a period of confrontation and sanctions lasted for several years, there may be a long-term increase in oil prices and pressure on the world economy. This period of time will also allow Iran time to steadily improve its asymmetric capabilities and political warfare. And if Iran did complete a nuclear weapon during this time, it may lead many nations to abandon sanctions or aggressive posturing in fear of Iranian retaliation.

Iran will have to take risks of its own, and has no inherent advantages in playing the "long game." Hostile Iranian actions and Iran's movement towards a nuclear weapons capability would probably strengthen the US's, European's, and Southern Gulf state's resolve and support for sanctions. Iran would pay a steadily higher cumulative cost as a result of sanctions over time, and popular support for the regime will most likely continue to erode In addition, Iran cannot be certain that the use of low level asymmetric tactics can be used without provoking the US and other states to escalate the conflict economically or militarily. Nor does Iran hold escalation dominance, which risks a spiral escalation, leading to the destruction of Iran's military forces and other assets.

Rising pressure on Iran can lead it to take risks, and exercise the kind of military options described in Chapters III and IV. Limited or demonstrative military actions can become serious clashes and accidents can escalate into war. At the same time, Iran's progress towards a nuclear weapons capability may lead Israel to carry out preventive strikes, which will force the US to choose between launching its own strikes to "finish the job" or doing nothing and wasting an opportunity to set back the nuclear program for a longer period of time.

The end result is that the US, its Arab allies, and Israel, may face years of continuously stringent sanctions on banking and financing, energy exports, and arms controls that results in increasing confrontation with Iran. What today is defined as a "crisis" may become an enduring reality that can only be contained by close cooperation between the US and its allies and may only end with regime change in Iran.

Negotiations that focus on Iran's nuclear program will have limited achievements even if they are successful. Iran is building up its conventional long-range missile force, it is seeking to give them far more accuracy and terminal guidance which would allow them to be used against key point targets, and is examining options for similarly precise drones and long-range cruise missiles which could be used against critical targets as "weapons of mass effectiveness."

Depending on the final course of negotiations and the following level of Iranian compliance in actual inspections, Iran can seek to maintain a nuclear weapons program by continuing to develop more efficient centrifuges, by carrying cover nuclear weapons design efforts including testing of weapons designs using non-fissile cores and flying or launching bomb and missile warhead designs and testing reliability and safety. It could make significant progress towards developing boost and thermonuclear weapons using such efforts. It might be able to create and conceal small chains of centrifuges; and make progress in small, more concealable, heavy water reactor designs.

Iran remains a declared chemical and biological weapons power. It has years in which to develop better chemical weapons and a surge capability to produce and load them even if it appears to comply with the Chemical Weapons Convention. It has all of the research, development, and production equipment and technology for the production of advanced biological weapons. Unlike chemical weapons, such weapons can match or exceed the lethality of fission nuclear weapons, and there currently is no credible inspection or verification regime that could determine whether Iran was substituting a biological capability for a nuclear one.

As its recent military exercises in the Gulf show, Iran is also building up its capabilities for asymmetric warfare in ways that can threaten conventional navies and employ a wide range of tactics. It continues to use its Al Quds force, intelligence services, and diplomats to pose a growing threat to the Arab states and Israel, in addition to controlling an axis of influence that includes Iraq, Syria, and Lebanon. Iran is a sponsor of movements that might support it proxy attacks like the Hezbollah, some Shi'ite extremist groups in Iraq, and similar Hazara movements linked to the Al Quds force in Afghanistan. This means that a continued focus on sanctions and arms control efforts must be supported by the continued development of military capabilities to deter and contain Iran. The US should preserve and enhance its ability to use force against Iran. The US and its allies should make it clear to Iran that if it conducts nuclear tests, is found to be assembling nuclear weapons, or deploys a nuclear weapon it will justify the use of military force.

The US and its allies should also find ways to warn Iran that any major Iranian effort to "close the Gulf," or a large-scale clash between Iran and the US or its allies could lead to escalating military action. At the same time, the need to deter and contain Iran while sanctions and negotiations are still a somewhat viable option is very different from giving military options a priority. The real world political and strategic results of replacing sanctions and diplomacy with the use of force are so unpredictable, and the risks are so high, that force must be a last resort.

Preventive attacks might end the chance of successful negotiations for the life of the Islamic Republic, and usher in a period of containment analogous to the Cold War. Application of this level of military force might also convince the Iranian regime that nuclear weapons are required in order to prevent future attacks and will redouble their efforts to produce a weapon. A single series of military strikes might also only delay Iran for several years, lead it use them as an excuse to withdraw from the NNPT and IAEA inspection, and use even more resources to surge towards the deployment of nuclear-armed forces. Such action should only be taken if it becomes clear that Iran's regime has reached such ideological extremes where it cannot be deterred or that there is evidence Iran will produce and quickly use a nuclear weapon.

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Introduction

This report analyzes US and Iranian strategic competition in four key areas – sanctions, energy, arms control, and regime change. Shifts in the nature and intensity of sanctions on Iran have radically changed this aspect of US and Iranian competition since the fall of 2011. This escalation has been spurred by Iran's ongoing missile developments and nuclear program, the November 2011 IAEA report highlighting the possible military dimensions of Iran's nuclear program, an alleged Iranian assassination plot against the Saudi Ambassador to the US, an Iranian-government-sponsored mob attack on the British Embassy in Tehran in November 2011, and Iranian threats to "close" the Gulf to oil traffic.

A New Round of Sanctions

Iran's steady progress towards a nuclear weapons capability has led to a new round of sanctions from the US and its allies. Washington has sought to further isolate Iran economically through new US sanctions on the Iranian Central Bank and Iranian companies involved in the nuclear, hydrocarbon, and petrochemical industry. Iran's primary source of revenue – crude oil exports – is further threatened by a unanimous decision by the European Union on January 23rd to impose a full embargo on the importation of Iranian oil and petrochemical products.

US and European action has steadily increased the pressure on Iran since the fall of 2011:

- On October 15th, the European Union instituted additional sanctions against Iran's banking system, oil and petrochemical industry, and shipping industry. The EU decision prohibits any transactions between European and Iranian banks except for those authorized in advance. It also bans the export of graphite, aluminum, steel, and industrial facility control software. The decision prohibits the provision of flagging and classification services to Iranian tankers and cargo vessels in the EU or by EU nationals. Finally, the decision also forbids EU companies from providing shipbuilding technology and naval equipment to Iran. Broadens the export ban on equipment for Iran's oil, gas, and petrochemical industries.
- In August, Iranian oil exports continued to fall as importers reduced purchases. Iran exported roughly 860,000 barrels of oil per day (bpd) according to IEA estimates, down from 940,000 bpd in July. Iranian production was down as well reaching 2.85 million barrels per day (mbpd) and falling to 2.63 mbpd in September, the lowest level in 23 years. Over the past year Iranian oil production has fallen more than 1 mbpd.
- On July 1st, the European Union's embargo of Iranian petroleum products entered into force. This has had a major impact on Iran's oil exports, as oil sales to the EU accounted for roughly 23% of Iran's exports. Total Iranian oil exports in July was estimated at 940,000 bpd, down from 1.7 million bpd in June and 2.8 million bpd July 2011. Oil export revenue fell from \$9.8 billion in July 2011 to \$2.9 billion in July 2012.
- In May, President Obama signed into law the "Iran Threat Reduction and Syria Human Rights Act of 2012" which strengthened sanctions on Iran's energy sector by increasing the number of sanctions the Administration is required to impose from three to five. The law also imposes sanctions against foreign companies who conduct business in Iran's energy sector and any company that insures, sells, or leases tankers to Iran. This action has resulted in higher insurance costs for Iranian tankers and has resulted in major insurance companies refusing to insure Iranian ships.
- Currently, the Senate and House of Representatives are working on bills that seek to blacklist essentially
 every Iranian bank, threaten penalties against foreign companies that deal with any of these banks, and to
 target communications, software, and technology companies that conduct business with Iranian banks. This
 legislation would interact with the EU action on SWIFT, and affect all Iranian institutions and any foreign
 institution that acted a front or cover for Iran. Members of Congress state that while the U.S. Treasury has

- already blacklisted 23 Iranian banks, Iran is using more than 20 other banks to finance its nuclear program and provide support for regional militant groups.²⁹
- On March 15, 2012, the Society for Worldwide Interbank Financial Telecommunication, or SWIFT, complied with EU instructions to, "discontinue its communications services to Iranian financial institutions that are subject to European sanctions." SWIFT is essential to international banking because it provides a secure worldwide financial communication and transaction network to more than 10,000 financial institutions and corporations in 210 countries. In 2010, SWIFT reported that 19 Iranian banks and 25 Iranian financial institutions used the network over 2 million times during the course of the year. All banking transactions with Iran, international insurance coverage in Iran or for Iranian oil transportation, and all transitions with Iran's state-owned oil company and its main tanker fleet, are affected by this decision.
- On March 8 2012, the House Foreign Affairs Committee reinforced earlier legislation by introducing with H.R. 4179, "The Iran Financial Sanctions Improvement Act of 2012", expanding sanctions to cover other energy-related commerce. Concurrently, the same committee introduced H.R. 4173 the "Prevent Iran from Acquiring Nuclear Weapons and Stop War Through Diplomacy Act", designed to "direct the President to appoint a high-level United States Representative or special envoy for Iran" for the purposes of pursuing diplomatic means "to prevent Iran from acquiring a nuclear weapon". However, neither H.R. 4179 nor H.R. 4173 have moved forward and are currently stalled in committee.
- At the end of February 2012, the Treasury Department strengthened the preexisting Iranian Financial Sanctions Regulations (IFSR) with the implementation of subsection 1245(d). The amendment extends sanctions to "foreign financial institutions that knowingly conduct or facilitate certain significant financial transactions with the Central Bank of Iran (CBI) or a U.S.-designated Iranian financial institution". In accordance with these actions, the Secretary of Treasury will impose sanctions on privately-owned foreign institutions, as well as government-owned or controlled financial institutions that conduct business with the Central Bank of Iran.³²
- On February 5, 2012, President Obama issued Executive Order 13599, which implemented section 1245 of the FY2012 NDAA that froze the assets of the Iranian government and prevented all Iranian financial assets in the U.S. from being "transferred, paid, exported, withdrawn, or otherwise dealt with". The order also implemented new sanctions that required US banks to seize the funds of those on the Specially Designated Nationals (SDN) list, even in the funds are not destined to a US entity or firm. Previously, US

²⁹ Laurence Norman and Jay Soloman, "EU-US Split on Iran Banks Seen as Widening," Wall Street Journal, March 16, 2012.

³⁰ Rick Gladstone and Stephen Castle, "Global Network Expels as Many as 30 of Iran's Banks in Move to Isolate Its Economy," New York Times, March 16, 2012, http://www.nytimes.com/2012/03/16/world/middleeast/crucial-communication-network-expelling-iranian-banks.html?_r=1; Thomas Endbrink and Joby Warrick, "Grim Outlook on Nuclear Talks," Washington Post, March 16, 2012, p. A7.

³¹ Indira A.R. Lakshmanan, "Iran Sanctions Bid Targets Oil, Tanker Companies to Cut Exports," Bloomberg, Feb 6, 2012; Indira A.R. Lankshmanan, "Global Insurers Targeted in Latest U.S. Bid to Expand Sanctions on Iran, Bloomberg, Mar 8, 2012; Al-Arabiya, U.S. Lawmakers Take Next Step on New Iran Sanctions on Heels of European Embargoes, Jan 31, 2012; http://english.alarabiya.net/articles/2012/01/31/191608.htm; AP sources: Congress to seek new sanctions targeting all Iranian banks Associated Press, March 6, 2012, http://www.washingtonpost.com/politics/federal_government/ap-sources-congress-to-seek-new-sanctions-targeting-all-iranian-banks/2012/03/06/gIQA1p0XvR_print.html., "Iran Sanctions Bid Targets Oil, Tanker Companies to Cut Exports," Bloomberg, Feb 6, 2012 2:26 PM ET; Indira A.R. Lakshmanan, Global Insurers Targeted in Latest U.S. Bid to Expand Sanctions on Iran, Bloomberg, Mar 8, 2012 11:10 AM ET; Al Arabiya, U.S. lawmakers take next step on new Iran sanctions on heels of European embargoes, Tuesday, 31 January 2012;

³² U.S. Department of the Treasury, "Factsheet: Treasury Amends Iranian Financial Sanctions Regulations to Implement the National Defense Authorization Act". February 27, 2012.

³³ "Executive Order—Blocking Property of the Government of Iran and Iranian Financial Institutions", The White House, Office of the Press Secretary, February 6, 2012.

banks were required to block the transaction and return the funds to the sender. This order effectively blocks the Iranians from using the US banking system.

- In January 2012, the European Union, which accounts for roughly one-fifth of Iran's oil exports, introduced new sanctions to be phased in over the course 2012. The EU embargo prohibits the purchase, transportation, and importation of Iranian crude oil, the exportation of petrochemical equipment and technology, as well as related financial investments including insurance. Existing European contracts are allowed to continue until July 1, 2012. Additionally, the EU froze the Central Bank of Iran's European assets, and banned the trade of gold and other materials between Europe and the CBI. 34
- On December 31, 2011, President Obama signed the FY2012 National Defense Authorization Act (S.1867) that contained an amendment that required the President to bar foreign banks from opening accounts in the United States if that bank processed payments for oil through the CBI. Section 1245 of the FY2012 NDAA imposed unilateral sanctions on CBI in ways that impose major penalties against entities including corporations and foreign central banks which engage in transactions with the CBI. The sanctions on transactions unrelated to petroleum were to come into force 60 days after the bill was signed. Sanctions on transactions related to petroleum were take effect a minimum of 180 days after the bill's signing. The amendment provided for a renewable waiver of 120 days if the President determined that doing so is in the interest of the United States.
- In December 2011, the State Department launched a "virtual embassy" for Iran... This consisted of a website which was quickly blocked by Tehran amidst allegations that the US was attempting to recruit spies and foster regime change. US State department officials claimed that the site was merely an attempt to inform Iranians student visas and explain US policy towards Iran. It appears that the effort intended to weaken support for the regime among young, technically savvy Iranians. This was one in a series of attempts to make pro-American media and resources available to populations inside Iran.
- In December 2011, the European Union announced tighter sanctions on groups and individuals associated with Iran's nuclear program.
- In November 2011, the US Treasury Department introduced new unilateral sanctions under the auspices of the Comprehensive Iran Sanctions, Accountability, and Divestment Act of 2010 (CISADA). These new sanctions targeted Iran's petrochemical industry, the CBI and financial sector, transportation infrastructure, and added dozens of names to the list of sanctioned individuals. These restrictions bar institutions from conducting any business with any Iranian banks including the CBI and its affiliates as well as expanding sanctions on Iranian individuals and placing new restrictions on the importation of Iranian goods.
- On November 21, 2011, the US Treasury Department designated Iran's entire financial sector, including the CBI as "money laundering entities" under Section 311 of the USA Patriot Act.

A high level State Department official summarized the new US policy on sanctions in December 2011: "Our policy leverages the power of multilateral action and of like-minded countries to pressure Iran to comply with its international obligations, coupled with an offer to engage diplomatically...if Iran is serious about negotiating and addressing our and the world's concerns about its nuclear program." ³⁵

The Obama Administration must react to growing Congressional pressure, but so far it has steadily tightened sanctions in ways that focus on multilateral, rather than unilateral US action. Unless US policy changes, the US will focus on checking Iranian efforts to avoid or end run

³⁴ "EU Iran sanctions: Ministers adopt Iran oil imports ban", BBC News, January 23, 2012.

³⁵ Wendy Sherman, Statement before the Senate Foreign Relations Committee, 1 December 2011.

sanctions, and pursue additional sanctions gradually and in ways that maximize multilateral buyin.

It will seek to isolate the Iranian financial, oil, transportation, and petrochemical sectors to the extent possible. The Administration will attempt to inform and empower population centers within Iran through channels such as the State Department's "Virtual Embassy" program, in hopes that an opposition movement will again challenge the regime as external financial constraints and domestic mismanagement continue to cause economic stagnation.

This helps explain why statements by the President, Secretary of State, Secretary of Defense Panetta, and Chairman of the US Joint Chiefs indicate that military strikes – while "on the table" – are unlikely to be pursued by the Administration at this time. A range of senior US officials and officers have also said that preventive military strikes on Iran would not destroy Iran's nuclear ambitions, but only delay them for several years. As Secretary of Defense Panetta has said, the relevant targets "are very difficult to get at."

As for Iran, its reactions since late 2011 indicate that stronger sanctions and diplomacy are putting increasing international pressure on Iran. As the chronology below shows, most of Iran's leaders still take a mixed stand on the effectiveness of sanctions:³⁶

- On October 15th, Supreme Leader Ali Khameni declared that the West could not harm Iran's economy, "With God's grace, as was the case in other issues which the enemies were not able to do anything, they can do no damn thing in their economic confrontation with our people...This is a war against a nation...But the Iranian nation will defeat them."³⁷
- On October 2nd President Ahmadinejad admitted that oil and banking sanctions have had an impact saying, "One factor is from outside, and one factor is from inside. The enemy has stated that it will impose (more) sanctions, and part of the oil purchases from Iran has decreased, and a considerable segment of our foreign currency revenues was generated through oil sales...What is worse than the oil sanction is the sanctions on banking transactions. If oil is sold, the payment cannot be transferred, and a massive and great secret war (against Iran) is actually underway in the world." However, he blamed physiological pressures rather than government policies for the economic problems, "Are these currency fluctuations because of economic problems? The answer is no... Is this because of government policies? Never... It's due to psychological pressure. It's a psychological battle."
- President Ahmadinejad stated in a September 5th interview that sanctions were a "...all-out, hidden, heavy war" and that sanctions were impeding the economy, "there are barriers in transferring money, there are barriers in selling oil, but we are removing the barriers.",⁴⁰
- On September 10, 2012, Iran's Oil Minister, Rostam Qasemi declared that the sanctions have had little
 effect on ongoing oil development projects and sanctions have made Iran increasingly self-reliant,
 "Previously, we used to import most of the commodities from abroad. We do so to some extent at present

³⁶ For an excellent chronology that provides much fuller historical depth, see <u>Varun Vira</u>, <u>Henry A. Ensher</u>, <u>David Pupkin</u>, <u>Stephen Szrom</u>, <u>Maseh Zarif</u>, <u>Daniel Katz</u>, <u>Eiman Behzadi</u>, <u>Kerry Harris</u>, <u>John Karian</u>, Sanctions on Iran: Reactions and Impact, AEI, November 1, 2011, http://www.irantracker.org/us-policy/sanctions-iran-reactions-and-impact. Two of the October entries in the above list are taken from this report.

³⁷ <u>http://www.google.com/hostednews/afp/article/ALeqM5iM-IjGUz6UP3aoMlfrKdjxG2lq4A?docId=CNG.c36ac90c578becd9b22b3b70fe27a38e.741</u>

³⁸ http://www.tehrantimes.com/politics/102022-iran-will-overcome-economic-problems-ahmadinejad

³⁹ http://www.guardian.co.uk/world/2012/oct/02/ahmadinejad-iran-currency-psychological-war?newsfeed=true

⁴⁰ http://english.farsnews.com/newstext.php?nn=9106061782

- as well, but thanks to the sanctions and our own capabilities, we hope that we would be able to manufacture all the [needed] equipment domestically and even become an exporter of equipment."
- On July 31, 2012, Iran's Central Bank Governor, Mahmoud Bahmani, stated that the CBI had started an asymmetric war against sanctions saying, "...like military wars that we have a series of asymmetric tactics, we should start a series of asymmetric economic wars under these sanctions since these embargos are no less than a military war." 42
- In March Ayatollah Khamenei responded to President Obama's stated preference for diplomacy over war, Khamenei said "[t]his is good talk and shows and exit from delusion, But the U.S. president continued saying that he wants to make the Iranian people kneel through sanctions. This part of this speech shows the continuation of illusion in this issue."
- On February 17, 2012, Iran's senior nuclear negotiator, Saeed Jalili, declared his country's "readiness for dialogue" at "the earliest possibility". 43
- On January 24, 2012, Mohsen Qamsari of the National Iranian Oil Company declared to Mehr News Agency that "Iran can readily find new customers for its oil. We have no problem in selling oil." However, two days prior, on January 26, the former Iranian Oil Ministry deputy, Mehdi Hosseini, admitted that "Losing the European oil market will have an impact on Iran's economy which needs rational planning by the authorities. Selling oil at sub-market level prices is not a good way to counter the oil embargo."
- On January 9, 2012, Supreme Leader Khamenei said in a sermon broadcast by state television on that, "The Iranian nation believes in their rulers...Sanctions imposed on Iran by our enemies will not have any impact on our nation...Sanctions will not change our nation's determination...The Islamic establishment...knows firmly what it is doing and has chosen its path and will stay the course...The chain of power of the people consists of two interconnected factors: first is the definitive decision of the Islamic Republic regime not to deviate from its path and resistance in face of the oppression of superpowers, and secondly, the clever and resolute presence of the loyal people."
- On January 1, 2012, IRNA reported that, "President Ahmadinejad stated during an address to the 51st Annual meeting of the Central Bank of Iran that, "The CBI is responsible for balancing the country's monetary and financial market and it should try to promote justice and national income in the society." Pointing to the enemies' various plots to put pressure on the Iranian nation, Ahmadinejad said the CBI is the backbone of the country in facing enemy pressures and it should be so powerful, self-confident and firm in thwarting enemy plans. Concluding his remarks, Ahmadinejad said there is no special economic problem in the country and the economic indices have improved compared to the past." As mentioned above, Iranian President Mahmoud Ahmadinejad recently said before Parliament that the current sanctions regime was "the heaviest economic onslaught on a nation in history," adding "every day, all our banking and trade activities and our agreements are being monitored and blocked."
- On October 29, 2010, National Iranian Oil Company deputy, Mohsen Qamsari, said Iran "reached new agreements for receiving money for Iran's oil exports" and that "Iran's central bank has different and diversified ways and methods for receiving its money from selling oil to India...at the moment there is no Indian accumulated oil debt to Iran." An Iranian state media outlet claimed Indian firms are making payments for oil imports through Russia's Gazprombank. An "Indian industry source" told Reuters there

⁴¹ http://www.presstv.ir/detail/2012/09/10/260826/iran-oil-minister-downplays-sanctions/

⁴² http://english.farsnews.com/newstext.php?nn=9104252239

⁴³ http://www.nytimes.com/2012/02/18/world/middleeast/swift-network-moves-closer-to-expulsion-of-iran.html?scp=10&sq=iran%20sanctions&st=cse.

⁴⁴ Reuters – Mon, Jan 9, 2012, http://news.yahoo.com/khamenei-says-iran-not-yield-sanctions-112703921.html; http://news.yahoo.com/khamenei-says-iran-not-yield-sanctions-112703921.html; http://news.yahoo.com/khamenei-says-iran-not-yield-sanctions-112703921.html; https://dagobertobellucci.wordpress.com/2012/01/09/islamic-republic-of-iran-sayyed-khamenei-iran-lives-victory-sanctions-on-iran-to-fail/.

⁴⁵ IRNA, http://www.irna.ir/ENNewsShow.aspx?NID=30743969 November 1: Iranian President Ahmadinejad said "our banks cannot make international transactions anymore" in a speech before the Iranian parliament.

have only been discussions about opening Indian accounts with Gazprombank, and that India continues to make oil payments to Iran through Turkey's Halkbank. India previously paid off a \$5 billion oil debt by submitting payments through Halkbank. 46

- On October 26, 2010, Iranian Deputy Minister of Economy and Finance Mohammad-Reza Farzin, spoke at the German Council on Foreign Relations, and claimed that Iranian imports increased to \$24 billion in six months, \$8 billion of which came from Europe. Farzin predicted that "Iran-East trade" will reach approximately \$140 billion.⁴⁷
- On September 14, 2011, Ali Rafsanjani stated in a speech to Iran's assembly of Experts on September 14, 2001 that, "Gentlemen, you should be vigilant and careful. Do not downplay the sanctions...people should not be tricked...Iran has such a big capacity that it is able to overcome (the sanctions), but I am doubtful that these capacities are being utilized in a proper way, We have never had such intensified sanctions and they are getting more and more intensified every day. Wherever we find a loophole, they (Western powers) block it."

While the official Iranian reaction is that sanctions are not affecting Iran's economy, some Iranian officials have admitted that sanctions are having a major impact. At the same time, Iran has also issued threats to "close the Gulf", destroy Israel, attack Saudi oil facilities and destroy American bases in the region. Yet, it has called for a new round of negotiations and claimed that the US and President Obama had called for such talks.

The end result is that the Iranian regime has fluctuated between admissions about the effect of sanctions, calling for negotiations, threats to close the Gulf, and boasting about Iran's capability to deter and retaliate. While exact information on the full effects of the sanctions is nearly impossible to obtain, most sources detail a tough economic climate within Iran, with high inflation, high unemployment, and rise in consumer goods prices hitting the country. The new sanctions that went into effect this summer have created serious banking and trade problems, by cutting off Iranian banks from international finance networks. Sanctions against foreign banks financing Iranian oil sales and an EU embargo on all Iranian oil, which came into full effect July 1st, has dramatically cut the amount of oil products Iran exports and the prices they receive. And even when oil sales are completed, banking sanctions are making it difficult to receive the proceeds of such sales, forcing Iran to trade oil for gold, wheat, or consumer products.⁴⁹

The US Energy Information Agency (EIA) estimated in July 2012 that the growing impact of sanctions was impacting on Iran's ability to produce oil. The EIA announced that it "expects Iran's crude oil production to fall by about 1 million bpd by the end of 2012 relative to an estimated output level of 3.6 million bpd at the end of 2011, and by an additional 200,000 bpd in 2013...U.S. financial sanctions and EU insurance provisions have also impeded other countries' transactions for Iranian oil, leading to reports that Iran's ability to produce oil has outstripped its

⁴⁶ Iran Downplays Report India Paying for Oil via Russia," Reuters, October 29, 2011, http://www.reuters.com/article/2011/10/29/iran-india-oil-idUSL5E7LT06U20111029

⁴⁷ Top Iranian Economic Official Highlights Futile Western Sanctions," Iranian Student News Agency,

October 26, 2011, http://www.irna.ir/ENNewsShow.aspx?NID=30632263

⁴⁸ Reuters, Tehran, September 14, 2011 11:00am EDT

May 17: Foreign Ministry spokesman Ramin Mehmanparast denied a U.N. report that Iran and North Korea frequently exchanged ballistic missile technology, saying "our scientific and technological capabilities are high enough so that we do not need any other country to give us such technology."

⁴⁹ http://www.bloomberg.com/news/2012-03-29/india-and-china-skirt-iran-sanctions-with-junk-for-oil-.html

ability to sell it."⁵⁰ The EIA estimated in September 2012 that, "EIA's forecast of Iranian crude oil production is unchanged from last month's Outlook, with forecast production falling by about 1 million bbl/d by the end of 2012 relative to an estimated output level of 3.6 million bbl/d at the end of 2011, and by an additional 0.2 million bbl/d in 2013."⁵¹ Those estimates appear to be correct as Iranian oil production hit 2.63 million bpd in August according to the IEA.⁵²

The US Treasury announced in September 2012 that it estimated that Iranian oil exports had dropped by 1 million barrels of oil from levels of 2.4 million barrels a day in 2011.⁵³ The Undersecretary of the Treasury, David Cohen, stated that, "This decrease in exports is costing Iran about \$5 billion a month, forcing the Iranian government to cut its budget because of a lack of revenue...Sanctions have effectively terminated international access for most Iranian banks...Today, the Iranian government is relegated to the backwaters of the international financial system, and they know it."⁵⁴

It is far too soon to make accurate estimate for a nation with notoriously politicized and inaccurate macroeconomic data, but some of the costs are clear. Iran's currency, long held artificially high by a regime that could afford to subsidize it, has nose-dived since the implementation of more stringent sanctions. It a has lost more than 50% of its value between September 2011 and September 2012 and is currently trading at around 37,500 Rials to one dollar, down from 13,000 in September 2011. ⁵⁵

This has led to massive increases in food prices and sharply affected access to food in a country that the World Trade Organization estimated imported \$8.2 billion worth of food and \$9.4 billion worth of agricultural products in 2012. It has reduced meat consumption, led to the buying and hoarding of gold and dollars, sharply reduced foreign and domestic investment, strained government revenues, and forced Iran into massive new efforts to use third parties and other nations to disguise its economic activities.

Iran is now seen in some countries as an unreliable energy supplier due to the difficulties of the current banking sanctions and is scrambling to find markets for its crude oil. Furthermore, the Iranian Rial's value has nosed-dived and fell to a record low in September as sanctions continued to bite at the Iranian economy and fears of increased EU sanctions hit the market. Iran's government, economy, and citizens are feeling the effects of intense sanctions, and indications point to ever worsening economic conditions.

The end result is that sanctions are likely to either lead to serious and ultimately successful negotiations between Iran and the P5+1, or be the beginning of years of more intense but non-

http://www.upi.com/Business_News/Energy-Resources/2012/07/11/Irans-oil-production-slumps-EIA-says/UPI-75241342016878/#ixzz28Kdmh66R

⁵¹ EIA, *Short Term Energy Outlook*, September 11, 2012, http://www.eia.gov/forecasts/steo/report/global_oil.cfm, and

 $^{^{52}\} http://www.reuters.com/article/2012/10/12/iran-oil-exports-idUSL5E8LCK5M20121012$

⁵³ Jonathan Spicer, "U.S. says Iran oil exports down dramatically," http://in.reuters.com/article/2012/09/12/usa-sanctions-idINL1E8KCKRX20120912.

⁵⁴ Jonathan Spicer, "U.S. says Iran oil exports down dramatically," http://in.reuters.com/article/2012/09/12/usa-sanctions-idINL1E8KCKRX20120912.

⁵⁵ "Iranian currency slides under latest U.S. sanctions", Thomas Erdbrink, Washington Post, January 2, 2012.

violent US and Iranian confrontation at every level, or a crisis that leads to armed clashes or serious conflict. In the late spring and summer it looked as though successful negotiations were possible. But difficulties between the two parties' looks to have derailed the process as no new sessions are planned. So far, Iran has not reacted in any serious way – carrying on with a pattern of years of negotiating efforts that are little more than stalling tactics.

The negotiations between Iran and the P5+1 in the summer of 2012 did slightly relieve tensions as the first significant meetings in years took place. However, the fact that both parties were talking to each other in the same room is not an achievement, only an agreement between the two sides will solve this crisis. Iran's threats and exercises have been followed by the announcement that it is creating a new, far better sheltered underground uranium enrichment facility and deploying much more efficient centrifuges.

Setting the Stage: The Impact of Iran's Dependence on Petroleum Exports and Iran's Vulnerability

In order to understand the pressures Iran faces from sanctions, it is necessary to understand just how dependent Iran is on petroleum and gas exports. Regardless of what Iranian officials may say, petroleum exports make up the bulk of Iran's revenues, and are highly vulnerable to sanctions, embargoes, or military attacks. Iran's economy is simply not sufficiently diversified that it is able to withstand a large drop in oil exports. The Iran-Iraq War, sanctions, years of mismanagement, badly structured state intervention, and endemic corruption, have taken their toll on the Iranian economy.

As **Figure V.1** shows, Iran has massive oil and gas reserves, although it has politicized its estimates of its reserves ever since the beginning of the Iran-Iraq War in order to increase its relative importance. The EIA reports that the, "Oil & Gas Journal, as of January 2011, Iran has an estimated 137 billion barrels of proven oil reserves, 9.3 percent of the world's total reserves and over 12 percent of OPEC reserves." In July 2012, OPEC released its 2012 Annual Statistical Bulletin that raised Iran's proven reserves to more than 154 billion barrels of crude. Some analysts are skeptical of this estimate, however, as Iran revised its reserves a week after Iraq had revised its own, leading some to speculate the move was political.

The EIA also reports that, "Iran has the world's second largest natural gas reserves but the sector is under-developed and used mostly to meet domestic demand. Natural gas accounts for 54 percent of Iran's total domestic energy consumption. Most of the remainder of energy consumption is attributable to oil, with marginal contributions from coal and hydropower. Iran is expected to increase natural gas production from its offshore South Pars natural gas field in the Persian Gulf, an integral component of energy sector expansion plans." ⁵⁷

The location of these reserves, Iran's pipelines and export facilities, and key potential targets in Iran's petroleum system are shown in **Figure V.2**.

But massive oil and gas reserves do not translate into national wealth unless they are produced and sold. Iran only had a per capita income that was estimated at around \$12,200 even before the US and Europe imposed new and far more draconian sanctions in late 2011 and early 2012.

⁵⁶ http://www.eia.gov/cabs/iran/Full.html

⁵⁷ http://www.eia.gov/cabs/iran/Full.html

Iran's per capita income ranked 84th in the world and was by far the lowest rank of any major oil producer in the Gulf. Iran also had an unemployment level in excess of 15%, and youth unemployment somewhere between 20-30% – when acute underemployment was taken into account. Some 18.7% of the population was below the poverty line, and Iran's middle class and business class had already suffered from years of inflation, state intervention, and government corruption.⁵⁸

While Iran's per capita income has increased slightly to \$13,200, its ranking in the world has dropped to 94th place, and the unemployment rate and youth unemployment rate remains above 15% and above 20% respectively.⁵⁹ Inflation has also risen, from 22.9% in July to 23.5% in August.⁶⁰

The US Energy Information Agency estimates that Iran will receive some \$95 billion in petroleum export revenues in 2012, and \$1,409 in per capita revenues – roughly one twelfth of the entire per capita income. Oil revenues were Iran's only major source of hard currency, and the CIA estimates that they account for 80% of all Iranian exports in 2011, or some \$78 billion out of a total of \$131.8 billion in annual exports. Their value was roughly equivalent to the nation's entire total for imports in 2011 (\$76.1 billion.). The Iranian economy could simply not function without them, and is sufficiently marginal so every dollar equivalent matters – particularly since Iran's reserves only totaled some \$109.7 billion at the end of December 2011.

Sanctions and Oil Production Capacity

Sanctions and embargoes can affect four major aspects of Iran's energy income: its ability to exploit its reserves by developing new sites and improve its recovery technology, its ability maintain or increase its production rates, its ability maintain or increase its export capacity, and its ability to create new refinery capacity to reduce its dependence on product imports and gain value added through its own product exports. Experts disagree over how sanctions affect Iran's broader problems in maintaining and increasing its production capacity. The EIA seems to be relatively neutral, and it makes public analyses that seem to track broadly with in house OPEC and IEA studies.

In the case of oil, EIA reporting in February 2012 noted that, 63

The state-owned National Iranian Oil Company (NIOC), under the supervision of the Ministry of Petroleum, is responsible for all upstream oil projects, encompassing both production and export infrastructure. The National Iranian South Oil Company (NISOC), a subsidiary of NIOC, accounts for 80 percent of oil production covering the provinces of Khuzestan, Bushehr, Fars, and Kohkiluyeh and BoyerAhmad. Nominally, NIOC also controls the refining and domestic distribution networks, by way of

⁵⁸ CIA, World Factbook, "Iran," March 8, 2102, https://www.cia.gov/library/publications/the-world-factbook/geos/ir.html

⁵⁹ https://www.cia.gov/library/publications/the-world-factbook/geos/ir.html

⁶⁰ http://www.businessweek.com/news/2012-09-05/iran-inflation-quickened-to-23-dot-5-percent-in-12-months-to-aug-dot-20

⁶¹ EIA, OPEC Revenues Factsheet, http://www.eia.gov/cabs/OPEC Revenues/Factsheet.html

⁶² CIA, World Factbook, "Iran," March 8, 2102, https://www.cia.gov/library/publications/the-world-factbook/geos/ir.html

⁶³ EIA, DOE, Country analysis Briefs, "Iran," February 17, 2012, http://205.254.135.7/countries/cab.cfm?fips=IR

its subsidiary, the National Iranian Oil Refining and Distribution Company (NIORDC), although functionally there is a separation between the upstream and downstream sectors.

The Iranian constitution prohibits foreign or private ownership of natural resources. The government permits buyback contracts that allow international oil companies (IOCs) to enter into exploration and development contracts through an Iranian affiliate. The contractor receives a remuneration fee, usually an entitlement to oil or gas from the developed operation, leaving the contractor to provide the necessary capital up-front. Once development of a certain field is complete, however, operatorship reverts back to NIOC or the relevant subsidiary.

...Since the 1970s, Iran's production has varied greatly. Iran averaged production of over 5.5 million bbl/d of oil in 1976 and 1977, with production topping 6 million bbl/d for much of the period. Since the 1979 revolution, however, a combination of war, limited investment, sanctions, and a high rate of natural decline in Iran's mature oil fields have prevented a return to such production levels.

An estimated 400,000-700,000 bbl/d of crude production is lost annually due to declines in the mature oil fields. To offset natural decline rates, Iran's oil fields require structural upgrades including enhanced oil recovery (EOR) techniques such as natural gas injection, which has put even greater strain on energy supply due to rising demand for natural gas domestically. Iran's reserves are not confined to the southwest and offshore Persian Gulf, creating potential for further discoveries. Iranian has oil reserves under the Caspian Sea, but exploration and development of these reserves have been at a standstill due to territorial disputes with neighboring Azerbaijan and Turkmenistan. Iran also shares a number of both onshore and offshore fields with neighboring countries, including Iraq, Qatar, Kuwait, and Saudi Arabia.

There were a number of new discoveries in Iran over the past couple of years. In May 2011, NIOC announced a discovery of a deposit of light oil (35° API gravity) in the Khayyam field, offshore in the Hormuzgan province. The field had been discovered in 2010 but was originally classified as a gas field. According to the NIOC, the volume of in-place oil at this field is 758 million barrels, of which around 170 million barrels are recoverable. Also in May 2011, Iran announced the discovery of new onshore oil fields in its south and west with an estimated half a billion barrels of reserves. In late 2010, Iran claimed the discovery of new crude finds near gas reservoirs in the Persian Gulf, holding total in-place reserves of more than 40 billion barrels of oil, however recoverable reserves could be less than 10 billion barrels.

There are few upstream oil projects in development, and those that are proceeding have been slowed by the loss of expertise, technology and funding in the wake of various sanctions. The most promising prospects for a boost in production capacity comes from two specific projects: Azadegan and Yadavaran. Other current oil projects include Jofeir, Resalat, and Forouzan, all of which have been significantly delayed due to sanctions.

The Azadegan field was Iran's biggest oil find in 30 years when announced in 1999. It contains 26 billion barrels of proven crude oil reserves, but its geologic complexity makes extraction difficult. The field is separated into two portions: North and South Azadegan. China National Petroleum Corporation (CNPC) is developing North Azadegan in a two-phase development with ultimate total production estimated at 150,000 bbl/d (75,000 bbl/d for each phase). In 2004, a consortium of NIOC (25 percent) and Japan's INPEX (75 percent) signed an agreement for development of the southern portion of the Azadegan field.

In 2006, INPEX lowered its stake to 10 percent and following growing pressure in the wake of sanctions last year; it pulled out of the project completely in October 2010. In September 2009, a subsidiary of CNPC, China National Petroleum Corporation International Limited (CNPCI), signed a memorandum of understanding (MOU) with NIOC to develop South Azadegan in two phases. Yadavaran is the other promising upstream oil development project. China Petroleum & Chemical Corporation (Sinopec) signed a buyback contract at the end of 2007 to develop Yadavaran in two phases. The first will produce at a plateau of 85,000 bbl/d (by 2014), while the second will boost production to 185,000 bbl/d by 2016.

Over the past year, a number of new exploration projects have been undertaken and completed. The completed exploration projects include the Anaran Block, which consists of two large oil fields, Changooleh and Azar (expected to produce 67,000 bbl/d and 68,000 bbl/d, respectively). In addition, exploration projects in the Koohdasht, Garmsar, and Tousan Blocks have been completed, with disappointing results. Some of the exploration projects resulted in no successful gas and/or oil discoveries.

Overall, according to FACTS Global Energy (FGE), Iran's discoveries of crude oil and condensates totaled 10.7 billion barrels in 2010.

Iran's development problems have been compounded by the fact that the Iranian National Oil Company and government have done a notoriously bad job of structuring attractive proposals for outside investment and participation in petroleum deals – although they sometimes eventually compromise on more financially realistic agreements. Investment in Iranian oil and gas does not give the outside country or company control over Iran's reserves, forces it to sell to the highest bidder at world prices, and presents the constant risk of nationalization, unilateral cancellation without compensation, or sanctions. Iran's internal political debates over foreign investment and economic policy add to this risk and the end result is that energy investments in other more stable oil exporting countries often offer better terms. Outside powers and companies are also increasingly cautious about dealing with Iran in ways that lead to tensions with the Arab oil and gas exporting states.

Sanctions and Gas Production Capacity

In the case of gas, Iran has roughly 16% of the world's conventional proven gas reserves. The EIA estimates that Iran has the second largest gas reserves in the world at 1,046 Trillion Cubic Feet (TCF) vs. 1,680 TCF for Russia, and 896 TCF for Qatar. ⁶⁴ However, fracturing and other technological developments are quickly reducing the importance of conventional vs. total reserves, and Iran's percentage of potentially commercial reserves may be closer to 8% than 16%. ⁶⁵ Iran currently produces only 4.3% of world natural gas, and has limited export capability. In contrast the Arab Gulf states have some 26% of world natural gas reserves and are responsible for 10% of world gas production. ⁶⁶

The EIA reports that, 67

The National Iranian Gas Company (NIGC) is responsible for natural gas infrastructure, transportation, and distribution. The National Iranian Gas Exports Company (NIGEC) was created in 2003 to manage and to supervise all gas pipeline and LNG projects. Until May 2010, NIGEC was under the control of the NIOC, but the Petroleum Ministry transferred NIGEC, incorporating it under NIGC in an attempt to broaden responsibility for new natural gas projects.

Due to the poor investment climate and international political pressure, some international oil companies including Repsol, Shell, and Total have divested from Iran's natural gas sector. In response, Iran has looked toward eastern firms, like state-owned Indian Oil Corp., China's Sinopec, and Russia's Gazprom to take an increased role in Iranian natural gas upstream development. Activity from these sources has also been on the decline due to logistical difficulties experienced as a result of sanctions on technology and financial transactions.

Under Iran's buy-back scheme, foreign firms hand over operations of fields to the National Iranian Oil Company (NIOC), and after development they receive payment from natural gas production to cover their investment. National Iranian South Oil Company (NISOC), a subsidiary of NIOC, is responsible for much of the southern natural gas production.

⁶⁴ Energy Information Agency (EIA) of the US Department of Energy's country report on Iran as of January 2012: http://www.eia.gov/countries/cab.cfm?fips=IR

⁶⁵Energy Information Agency (EIA) of the US Department of Energy's country report on Iran as of January 2012: http://www.eia.gov/countries/cab.cfm?fips=IR

⁶⁶ Energy Information Agency (EIA) of the US Department of Energy's country report on Iran as of January 2012: http://www.eia.gov/countries/cab.cfm?fips=IR

⁶⁷ EIA, DOE, Country analysis Briefs, "Iran," February 17, 2012, http://205.254.135.7/countries/cab.cfm?fips=IR

...Iran's natural gas production has increased by over 550 percent over the past two decades, and the consumption has kept pace. As demand growth rates persist, the potential for shortfalls in natural gas supply grows. Iran's natural gas exports likely will be limited due to rising domestic demand, even with future expansion and production from the massive South Pars project, and other development projects.

In 2010, Iran produced an estimated 6 Tcf of marketed natural gas and consumed an estimated 5.1 Tcf. A sizeable volume of the gross natural gas produced (7.7 Tcf in 2010) was reinjected (1.2 Tcf). As Iran implements its plans for increased crude production through EOR techniques, however, the share of natural gas used for re-injection is expected to increase dramatically.

...The most significant energy development project in Iran is the offshore South Pars field, which produces about 35 percent of total gas produced in Iran. Discovered in 1990, and located 62 miles offshore in the Persian Gulf, South Pars has a 24-phase development scheme spanning 20 years. The entire project is managed by Pars Oil & Gas Company (POGC), a subsidiary of the National Iranian Oil Company. Each phase has a combination of natural gas with condensate and/or natural gas liquids production. Phases 1-10 are online. The majority of South Pars natural gas development will be allocated to the domestic market for consumption and gas re-injection. The remainder will either be exported as liquefied natural gas (LNG) and/or used for gas to liquids (GTL) projects.

Kish, with estimated reserves of 50 Tcf, it is expected to produce 3 Bcf/d of natural gas. Phase I of the project, which experienced repeated delays is expected to come online in 2016. Phase I is expected to produce approximately 1 Bcf/d and Phase II of the project will produce an additional 2 Bcf/d. In addition to Kish, there are other promising gas fields that could further boost Iran's production. However, these projects also are characterized by delays and other difficulties. These additional fields include the Golshan, Ferdowsi, and North Pars gas fields although their start-ups are unlikely to occur until the next decade.

This analysis illustrates that Iran has far greater potential to produce and export gas and oil than it has been able to exploit. The degree to which past sanctions affected delays, bid failures, and contract cancellations remains uncertain, but it is clear that new sanctions introduced in late 2011 and throughout 2012 have had a major impact. As of July 1st the European Union had fully embargoed Iranian oil, India has cut back its purchases, Japan is looking for alternate sources, and Chinese imports have dropped. This, coupled with soaring production from Iraq and increasing production from Libya, makes it easier for countries to find alternate sources of oil.

More importantly, they make it clear that the new sanctions that the US and EU have imposed will continue to make things far worse, and that the more draconian sanctions on all Iranian banking activity being suggested by some members of Congress would have even more serious effects. Some powers like China and Russia may be able to ignore such sanctions in making oil and gas investments, but Iran's ability to main and expand its production capacity is fragile and sanctions will hit hard over time.

Sanctions and Iranian Oil Exports

The impact of sanctions on Iran's ability to export its oil and gas resources is far more immediate. As **Figure V.3** shows, Iran has had major cycles of security problems with its oil production and exports ever since the fall of the Shah – a time when Iran's exports peaked at 3 million barrels a day. The EIA reports that Iran exported approximately 2.2 million bbl/d of crude oil in 2010, and that Iranian Heavy Crude Oil was Iran's largest crude export followed by Iranian Light: "In 2010, Iran's net oil export revenues amounted to approximately \$73 billion. Oil exports provided half of Iran's government revenues, while crude oil and its derivatives accounted for nearly 80 percent of Iran's total exports." ⁶⁸ Recent data suggest that the additional sanctions, especially the July 1st EU embargo, has had dramatic effects on Iranian oil exports.

⁶⁸ EIA, DOE, Country analysis Briefs, "Iran," February 17, 2012, http://205.254.135.7/countries/cab.cfm?fips=IR

Overall, Iran's oil exports in July were down 45% from a month before due to import reductions from China (down 28%), India (42%), Turkey (71%), and zero imports from Japan, South Africa, Taiwan, and South Korea.⁶⁹ Revenue was also down in July, \$2.9 billion compared to July 2011 at \$9.8 billion.

The practical impact of Iran's export potential must be kept in perspective. Iran at most has some 10% of the world's proven oil reserves (151 billion barrels vs. 267 billion for Saudi Arabia, 211 billion for Venezuela, and 173 billion for Canada), and its percentage of potential reserves is substantially lower. Iran currently only produces 5.2% of world conventional oil liquids, and has been very slow to increase production.

In contrast the Arab Gulf states have some 72% of the world's conventional oil reserves and produce some 25% of world oil. Iran lacks refinery capacity, and its large, steadily growing population consumes a significantly larger part of its total production than in the Arab Gulf states. Moreover, Iran has already tapped 75 percent of its known reserves, so the likelihood of new, major discoveries is low. Recently discovered sources have allowed Iran to hold oil production relatively steady, and they may even help production levels to grow somewhat in the immediate future, but new sources will not be able to offset natural declines beyond the short-term. As a result, Iran will have to rely heavily on proven but undeveloped reserves, which will require major new investments. Page 12% of the world's conventional oil reserves and production levels are large, steadily growing population than in the Arab Gulf states. Moreover, Iran has already tapped 75 percent of its known reserves, so the likelihood of new, major discoveries is low. Recently discovered sources have allowed Iran to hold oil production relatively steady, and they may even help production levels to grow somewhat in the immediate future, but new sources will not be able to offset natural declines beyond the short-term. As a result, Iran will have to rely heavily on proven but undeveloped reserves, which will require major new investments.

At the same time, the effectiveness of sanctions is partially dependent on the ability of importing nations to cut back on Iranian oil imports. **Figure V.3** shows that China, Japan, and India were far more dependent on Iranian exports than others before the US and EU imposed new sanctions. Therefore, Section 1245 of the FY2012 NDAA included a provision for a 180 day sanctions wavier if a country had significantly reduced its purchases of Iranian oil. This has allowed countries who depend on Iranian oil time to find alternate sources of supply.

At the same time, the same importing states have to carefully consider what happens if they do not comply. As the EIA noted in November 2011, 73

Iran's oil exports also have been affected by sanctions. In 2011, Iran experienced significant problems with receiving payments from India for its exports, when the Reserve Bank of India halted a clearing mechanism due to sanctions. Some of the payments have been cleared through Turkish and UAE banks. More recently, NIOC announced that India has cleared all oil debts to Iran through Gazprombank of Russia and Iran has already received all overdue payments for its exports to India.

Iran also faces problems because it has very high domestic consumption of petroleum products. In 2011, the energy intensity in Iran was as high as the Middle Eastern average, but twice as high as the world average, and the energy factor, the ratio of final energy use growth to GDP was more than triple the world average at 1.27.74 This means that Iran is relatively energy inefficient

 $^{^{69}\,\}underline{http://msnbcmedia.msn.com/i/msnbc/sections/news/IranSanctionsUpdate.pdf}$

 $^{^{70}}$ BP, BP Statistical Review of World Energy, June 2011, bp.com/statistical review. pp. 6, 8 $\,$

⁷¹ BP, BP Statistical Review of World Energy, June 2011, bp.com/statisticalreview. pp. 6, 8

⁷² BP, BP Statistical Review of World Energy, June 2011, bp.com/statisticalreview. pp. 6, 8

⁷³ EIA, DOE, Country analysis Briefs, "Iran," February 17, 2012, http://205.254.135.7/countries/cab.cfm?fips=IR

⁷⁴ Atabi, et. al, "Long Run Energy Demand in Iran; Efficiency and Renewable Energy Scenarios," The United States Association for Energy Economics-The International Association for Energy Economics Working Paper. March, 2011, p. 5.

and has relied on energy subsidies in the past to reduce the price burden on its population. Subsidized prices, coupled with a population that has doubled since 1979, has created excessive demand and inefficient energy uses. Natural gas accounts for half of Iran's total domestic energy consumption, while the remaining half is predominately oil consumption.⁷⁵

A significant portion of what Iran refines is low-value fuel oil, forcing them to rely on imports for higher value-added refined products, such as gasoline, jet fuel, and diesel. These energy imports are essential to accommodate the growing public appetite for subsidized fuels, especially gasoline and gas oil. While reliable numbers are hard to come by, the EIA estimates that in 2010, Iran imported 78,000 bbl/d or refined oil products, roughly 70% of total imports. The EIA further estimated that Iran would import most of its refined gasoline in 2011, but through increasing capacity and improving energy efficiency, Iran could become a gasoline exporter by 2015.

The EIA notes that:

Iranian domestic oil demand is mainly for diesel and gasoline. Total oil consumption was approximately 1.8 million bbl/d in 2010, about 10 percent higher than the year before. Iran has limited refinery capacity for the production of light fuels, and consequently imports a sizeable share of its gasoline supply. Iran's total refinery capacity in January 2011 was about 1.5 million bbl/d, with its nine refineries operated by the National Iranian Oil Refining and Distribution Company (NIORDC), a NIOC subsidiary.

The Iranian government subsidizes the price of refined oil products, however price reforms instituted in December 2010 removed some of the subsidies, which significantly affected gasoline consumption in Iran (see Gasoline section below). Iran is an overall net petroleum products exporter due to large exports of residual fuel oil.

...Sanctions imposed on Iran have made it difficult for the country to import needed volumes of gasoline. The government has attempted to control consumption by implementing accelerated subsidy reform, resulting in a sharp increase in the price of gasoline. The subsidy reform spurred political opposition because of inflationary fears in the midst of an economic downturn. Furthermore, petrochemical plants were converted so that they can produce gasoline as a short-term measure. However, the converted plants produce low quality gasoline, causing significant environmental problems.

In 2010, Iran consumed around 400,000 bbl/d of gasoline, about 4 percent less than consumed in 2009. Iran does not currently have sufficient refining capacity to meet its domestic gasoline and other light fuel needs. However, the government has approved a number of expansions of existing as well as construction of new refineries with the aim to make Iran self-sufficient (and an exporter of gasoline).

With the aim to wean the country off the wasteful and expensive energy subsidies that reportedly cost around \$70 billion, or nearly 20% of Iran's GDP, President Ahmadinejad instituted the Targeted Subsidy Plan in 2010.⁷⁸ This plan has reduced subsides on staple goods such as bread and gasoline and compensated lower and middle class people with monthly cash handouts of \$40 USD. Prices for bread and some other foods have increased and gasoline is now priced at \$1.60 to \$2.60 per gallon. An IMF report said that this plan has eliminated about \$60 billion in expenses for Iran, but some Iranian economists believe that the number of people taking cash handouts has all but eliminated the savings from the subsidy cut. It is unclear what has affected

⁷⁵ EIA, DOE, Country analysis Briefs, "Iran," February 17, 2012, http://205.254.135.7/countries/cab.cfm?fips=IR

⁷⁶ EIA, DOE, Country analysis Briefs, "Iran," February 17, 2012, http://205.254.135.7/countries/cab.cfm?fips=IR

⁷⁷ http://www.eia.gov/cabs/iran/Full.html

⁷⁸ http://www.brookings.edu/research/opinions/2011/03/03-iran-salehi-isfahani

the Iranian economy more, the Targeted Subsidy Plan or additional sanctions. However, what is clear is that Iran is suffering from stagnant economic growth.

Iran has increased prices to reduce consumption, but still faces problems both in maintaining its volume of exports and because it lacks refinery capacity and has to import product. Past sanctions have had an impact in limiting Iran's refinery expansion plans. The EIA notes that, ⁷⁹

Iran has had other difficulties with refinery capacity expansion recently. During the inauguration ceremony (led by Iran's president Mahmoud Ahmadinejad) of the Abadan refinery expansion, a gasoline unit blew up as a result of a gas leak. It took NIORDC four months to rebuild the unit and bring it online.

Finally, Iran plans to increase refining capacity with the aim to become self-sufficient for gasoline. Plans for capacity increases through expansions at existing refineries as well as planned Greenfield refinery construction have been announced. Iran has issued permits to construct six new refineries with a combined refining capacity of 1.2 million bbl/d; however there has been little progress because of financing difficulties.

Iranian gasoline imports were approximately 78,000 bbl/d in 2010, nearly 70 percent of total product imports. Current and proposed expansions of Iranian refineries likely will come online between 2012 and 2017. Iran is expected to remain a gasoline importer next year, however if proposed expansions occur as planned, it is possible the country will become a gasoline exporter in 2015.

But in the past few years, Iran has reportedly been able to cut its imports while increasing its domestic refining capabilities. In a recent Reuters report, Iranian imports of gasoline has been reduced from around 40% of total imports to roughly 5% of total imports. The validity of the import numbers should be taken with a grain of salt and are most likely extremely optimistic. But this report underscores one of the current drawbacks of sanctions that in the past few years, notwithstanding the questionable accuracy of the data, Iran has been attempting to move towards self-efficiency in gasoline production. New sanctions will have to be much stronger to impede Iran's ability to attract foreign investment and technology, as well as pay for product imports.

Sanctions and Iranian Gas Exports

Gas exports are far less important to the Iranian economy than oil exports, but the EIA estimates that,

"Iran's natural gas production has increased by over 550 percent over the past two decades, and the consumption has kept pace. As demand growth rates persist, the potential for shortfalls in natural gas supply grows. Iran's natural gas exports likely will be limited due to rising domestic demand, even with future expansion and production from the massive South Pars project, and other development projects.

In 2010, Iran produced an estimated 6 Tcf of marketed natural gas and consumed an estimated 5.1 Tcf. A sizeable volume of the gross natural gas produced (7.7 Tcf in 2010) was reinjected (1.2 Tcf). As Iran implements its plans for increased crude production through EOR techniques, however, the share of natural gas used for re-injection is expected to increase dramatically.⁸¹

While Iran's production of natural gas has increased, its domestic consumption has increased as well, reducing the amount of gas available for export. This has affected both Iran's imports and exports. In 2011, Iran imported a total 47.983 Tfm with its imports coming from Turkmenistan

⁷⁹ EIA, DOE, Country analysis Briefs, "Iran," February 17, 2012, http://205.254.135.7/countries/cab.cfm?fips=IR

⁸⁰ http://english.alarabiya.net/articles/2012/01/29/191249.html

⁸¹ EIA, DOE, Country analysis Briefs, "Iran," February 17, 2012, http://205.254.135.7/countries/cab.cfm?fips=IR

and Azerbaijan.⁸² And in 2012, Iran exported 9.11 Bcm, mostly to Turkey and less so to Armenia.⁸³

The main impact of sanctions and US diplomatic pressure to date has been in reducing Iran's capacity to export. The EIA reports that, 84

Due to the poor investment climate and international political pressure, some international oil companies including Repsol, Shell, and Total have divested from Iran's natural gas sector. In response, Iran has looked toward eastern firms, like state-owned Indian Oil Corp., China's Sinopec, and Russia's Gazprom to take an increased role in Iranian natural gas upstream development. Activity from these sources has also been on the decline due to logistical difficulties experienced as a result of sanctions on technology and financial transactions.

...In May 2009, Iran began exports of natural gas to Armenia after a couple of years of delays. Exports to Armenia totaled 24 MMcf per day of gas in 2010 in exchange for electricity. Pipeline exports to Armenia are expected to increase to 224 MMcf per day in 2020.

...Iran has an extensive natural gas pipeline system, which includes trunk lines, import/export pipelines, and gathering and distribution lines. The backbone of the domestic pipeline system is the Iranian Gas Trunkline (IGAT) pipeline series, which transport natural gas from processing plants to end-use consumers.

Development of IGAT pipelines, fed by South Pars development phases, is important to Iran's natural gas transport. IGAT-8 (2012/2013) will run nearly 650 miles to Iran's northern consumption centers, including Tehran. IGAT-9 and IGAT-10 are still in the planning phase and are not likely to become operational before 2017. Iran exports natural gas via pipeline to Turkey and Armenia. The Iran-Turkey pipeline began exports in 2001 with 34 million cubic feet (MMcf) per day and exports gradually rose to 762 MMcf per day in 2010.

Future pipeline projects (at various stages of planning) include the Iran-UAE pipeline, Iran-Pakistan pipeline, and Iran-Europe gas export project. Additionally, the governments of Iran and Syria have signed several MOUs to build a pipeline linking the two countries. However, this project is becoming less likely as a result of the unrest in Syria and is predicated upon the survival of the Assad regime.

A controversial pipeline proposal (**Figure V.4**) is the \$7.4-billion Iran-Pakistan-India (IPI) line that would transport Iranian natural gas south to the Asian subcontinent. With a proposed 1,700 miles and a 5.4 Bcf/d capacity, the pipeline has been stalled in the past due in part to disputes over the cost of the shipments. Iran and Pakistan have finalized gas sales and purchase agreements, but without India's participation in the negotiations. It is probable that Iran would extend its domestic Iran Gas Trunkline 7 (IGAT-7) pipeline into Pakistan, avoiding the creation of a new, parallel pipeline.

It again is unclear how much US sanctions and diplomatic efforts have really limited these pipeline developments. Their cost and the risk of going through Afghanistan and Pakistan is a major deterrent without any other factors. This is less true in the case of Turkey, but Iran also has not always presented viable business terms.

However, sanctions have been less effective against natural gas exportation and field development. And as sanctions have squeezed Iran's refined oil imports, Iran is attempting to increase its reliance on the production and use of natural gas. While Iran does export gas to its neighbors, mostly Armenia and Turkey, the positive impacts on Iran's economy are low due to the technical challenges of producing, storing, and exporting gas and LNG and the fact that Iran's neighbors are also large gas producers. Moreover, to counter sanctions and the difficulty

⁸² OPEC, Annual Statistical Bulletin, 2012. http://www.opec.org/opec_web/static_files_project/media/downloads/publications/ASB2012.pdf

⁸³ http://www.opec.org/opec_web/en/about_us/163.htm

⁸⁴ EIA, DOE, Country analysis Briefs, "Iran," February 17, 2012, http://205.254.135.7/countries/cab.cfm?fips=IR

of using the international banking system, Turkey has paid Iran for its natural gas imports with gold. This leaves China, South Korea, and other countries as possible targets for Iranian gas, but without the requisite technology and infrastructure the economic impact of natural gas exports will be small.

Iran's Energy Targets

While it is not directly related to sanctions, **Figure V.2** highlights the fact that Iran has many highly vulnerable energy targets that are potential hostages to any Iranian effort to "close the Gulf" described in Chapter III. Iran's main oil export terminals and other ports could easily be mined by air, or be hit surgically with precision guided munitions or cruise missiles. ⁸⁶

Iran's main oil terminal is at Kharg Island and is easy to "close" or destroy using mines, cruise missiles, and stand-off air munitions. The EIA reports that Kharg Island has a crude storage capacity of 20.2 million barrels of oil and a loading capacity of 5 million bbl/d, but it is along the upper coast of the Gulf, and any ships or tankers moving in or out could be easily embargoed or attacked. Lavan Island is closer to the Strait, but only has the capacity to store 5 million barrels and load 200,000 bbl/d. Other terminals that are potential – but much less important targets – include Kish Island, Abadan, Bandar Mahshar, and Neka (which helps facilitate imports from the Caspian region). 87

As Figure V.2 shows, many of Iran's refineries are near the coast and easy to strike – and present an attractive follow-up target to any Iranian reprisals or a preventive strike. Similarly, Iran's internal gas distribution system has no major impact on world oil exports and the global economy, but has many critical points that could cut off gas to key cities and areas in Iran. Such strikes could be combined with attacks on electric facilities that will have a major impact on Iran's electricity supply.

Iran's power grid is another attractive set of targets and one where attacks could be combined with attacks on Iran's domestic gas distribution system. Even though Iran exports electricity to some of its neighbors — including Iraq — its power grid is extremely vulnerable, as are many of its generating facilities. The EIA reports that Iran generated 312.715 billion kilowatt hours (Bkwh) of electricity in 2010, and consumed 173.094 Bkwh in 2009. This was generated from a network capacity of 56.171 gigawatts (GW) in 2009, which is strained during times of peak demand. Approximately 97 percent of total electricity supply was generated by conventional thermal electric power that inevitably creates highly vulnerable targets and distribution systems.

Moreover, the EIA reports that, "some power plants are running as low as 10 percent of their nameplate capacity as Iran's electricity infrastructure is largely in a state of dilapidation and

⁸⁶ This target analysis uses the data in EIA, DOE, Country Analysis Briefs, "Iran," February 17, 2012, http://205.254.135.7/countries/cab.cfm?fips=IR

⁸⁷ EIA, DOE, Country analysis Briefs, "Iran," February 17, 2012, http://205.254.135.7/countries/cab.cfm?fips=IR

⁸⁸ The EIA reports that Iran is a net exporter of electric power and currently exports electricity to neighboring states including Armenia, Pakistan, Turkey, Iraq, and Afghanistan. Azerbaijan and Armenia supply electricity to Iran. Armenia and Iran will increase the volume of electricity that they deliver to each other on a seasonal basis, according to a November 2011 agreement. Total volume of power swapped between the two countries will rise from 350MW at present to 1,200MW following the completion of construction of a third, 400-kV transmission line connecting Iran and Armenia, expected for mid-2012.

rolling blackouts become endemic in summer months. The amount of generation lost in distribution is a central indicator of the disrepair of the electricity network, with upwards of 19 percent of total generation lost during transmission...Iran has focused on meeting higher demand by expanding gas-fired combined-cycle and hydroelectric power capacity. Expansion of electric power generation capacity will require significant investment, made much tougher by international sanctions. The government has announced that it has opened the sector to foreign investment, but sales of existing state-owned facilities as well as new independent power projects have been almost non-existent." 89

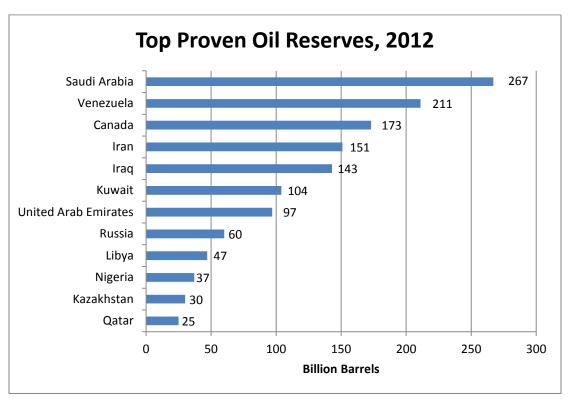
It should be stressed that while Iran has many targets and its lack of modern aircraft and surface-to-air missiles make it highly vulnerable; vulnerability is scarcely an incentive to carry out such strikes – particularly if they do lasting damage to key facilities. Moreover, it is far easier to talk about precision that avoids civilian casualties, unnecessary collateral damage, and avoids lasting damage, than it is to execute such strikes.

Cutting Iran's export capability affects not just Iran but the global economy as well due to the sudden drop in oil supply. Moreover, it will be the urban residents of Iran that suffer most from attacks on gas or electric facilities and distribution, and not the government. Like sanctions, the people will suffer before the ruling elite.

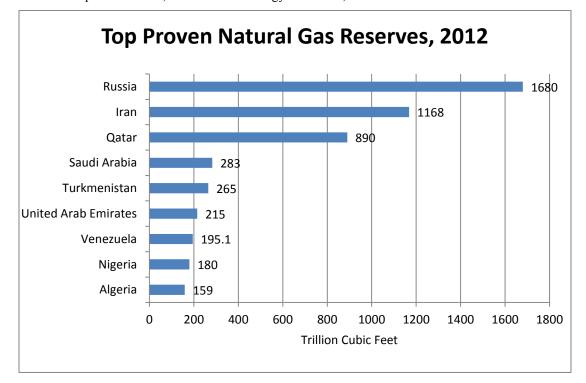
The fact remains, however, that no discussion of the vulnerability of the Arab Gulf, or closing the Strait, should ignore the fact that anything Iran initiates can not only be dealt through counter targeting, but unless Iran can radically improve its military capabilities or deter outside attacks, it will lose virtually any conflict that involves serious escalation both in terms of terms of military losses but economic losses as well. This is the reason why Iran is building its nuclear program, to hedge against preemptive military action and reduces the risk and loss associated with a military confrontation.

⁸⁹ EIA, DOE, Country analysis Briefs, "Iran," February 17, 2012, http://205.254.135.7/countries/cab.cfm?fips=IR

Figure V.1: Iran's Comparative Oil and Gas Reserves



Source: Adapted from EIA, "International Energy Statistics", 2012



Source: Adapted from EIA, "International Energy Statistics", 2012

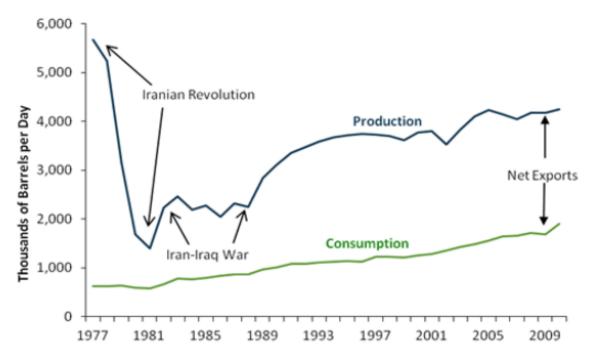
Figure V.2: Iran's Oil and Gas Reserves, Pipelines, and Export Facilities



Source: Adapted from DOE/EIA, "Iran, Country Analysis," February 17, 2012, pp. 1

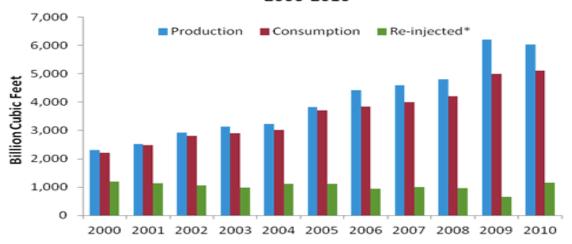
Figure V.3: Iran's Oil and Gas Exports – Part One

Iranian Total Oil Production and Consumption, 1977-2010



Source: U.S. Energy Information Administration

Iranian Marketed Natural Gas Production and Consumption, 2000-2010



Source: U.S. Energy Information Administration

*not included in consumption data

Source: Adapted from DOE/EIA, "Iran, Country Analysis," February 17, 2012, pp. 1, 3, 4, 5

Figure V.3: Iran's Oil and Gas Exports – Part Two

Iran's Top Export Destinations, 2010					
Country	000 bbl/d	Share of total (percent)			
China	426	20			
Japan	362	17			
India	345	16			
Italy	208	10			
South Korea	203	9			
Other	610	28			
Total Exports	2,154	100			

IRAN CRUDE OIL AND CONDENSATE EXPORTS FOR KEY COUNTRIES

January - June 2011

	Exports	Total Volume of Crude Imported from Iran ('000 b/d)	Percentage of
European Union	18	452	
Italy	7	183	13
Spain	6	137	13
France	2	49	4
Germany	1	17	1
UK	<1	11	1
Netherlands	1	33	2
Others	1	22	1
Japan	14	341	10
India	13	328	11
South Korea	10	244	10
Turkey	7	182	51
South Africa	4	98	25
Sri Lanka	2	39	100
Taiwan	1	33	4
China	22	543	11

Source: Adapted from DOE/EIA, "Iran, Country Analysis," February 17, 2012, pp. 1, 3, 4, 5

Figure V.4: Iran's Gas Pipeline "Dreams": The Iran-Pakistan-India Pipeline



Source: Adapted from DOE/EIA, "Iran, Country Analysis," February 17, 2012, pp. 3, 4, 5

Figure V.5: Iran's Refinery Targets

Iran's Refining Capacity, 2011					
Refinery	000 bbl/d				
Abadan	350				
Isfahan	284				
Bandar Abbas	232				
Tehran	220				
Arak	170				
Tabriz	100				
Shiraz	40				
Lavan Island	30				
Kermanshah	25				
Total Output	1,451				

Source: Adapted from DOE/EIA, "Iran, Country Analysis," February 17, 2012, pp. 6; Oil and Gas Journal

The Sanctions Game

These vulnerabilities in Iran's economic make-up explain why sanctions, and related diplomatic efforts, have become a key instrument for the US and its allies in competing with Iranian ambitions. The history of sanctions is complex, their exact impact is often impossible to measure or is controversial, and their ultimate success remains uncertain.

However, even a brief survey of this aspect of US and Iranian competition shows that sanctions have already put serious pressures on Iran – pressures compounded by the economic policies and mistakes of the Iranian regime, despite Iranian claims to the contrary. Moreover, the history of sanctions shows they have forced Iran to shift its strategy. Iran has responded by trying to leverage its international economic position through its energy exports, by talking about its right to peaceful nuclear programs, and by trying to exploit Arab-Israel tensions in order to shift the focus to Israel and away from the threat Iran's actions pose to Arab states.

US Unilateral Sanctions - A Brief Background

As **Figure V.6** shows, sanctions have been the main diplomatic weapon utilized by the US in competing with Iran across a broad spectrum of issues ever since the overthrow of the Shah. Washington has imposed a growing range of sanctions on Tehran, focusing on Iranian activities ranging from petroleum exports and investments to arms control and non-proliferation measures.

Sanctions now block US companies from operating in Iran and give the foreign firms a strong incentive not to operate there as well. And while their aim has been broad, they have all sought to push the current Iranian regime into changing its behavior by isolating it politically and economically from the international community.

Sanctions: 1980-2009

The first major period of US sanctions began in 1979, as US and Iranian relations deteriorated sharply following the Islamic Revolution and the hostage crisis. In response, President Carter laid out a series of economic sanctions that were intended both to punish Tehran and to change its behavior.⁹⁰

The Reagan Administration continued this trend and declared Iran "a sponsor of international terrorism," making Iran ineligible for various forms of US foreign assistance.⁹¹ Reagan also prohibited Iran from receiving US arms under the US Arms Export Control Act,⁹² and by Executive Order 12613, a ban was imposed on US imports of Iranian crude oil and all other Iranian imports in 1987.⁹³

http://www.archives.gov/federal-register/codification/executive-order/12613.html

⁹⁰ Sabatini, Richard, "Economic Sanctions: Pressuring Iran's Nuclear Program," Monterey Institute for International Studies, Nuclear Threat Initiative, June 24, 2010, http://www.nti.org.

⁹¹ Sabatini, Richard, "Economic Sanctions: Pressuring Iran's Nuclear Program," Monterey Institute for International Studies, Nuclear Threat Initiative, June 24, 2010, http://www.nti.org/e research/e3 economic sanctions pressuring iran nuclear program.html#fn1

⁹² The Arms Export Control Act, US Department of State. http://www.pmddtc.state.gov/regulations_laws/aeca.html

⁹³ Executive Order 12613--Prohibiting imports from Iran, The National Archives.

The H.W. Bush Administration continued to institute sanctions, signing the Iran-Iraq Arms Non-Proliferation Act into law in 1992. It included provisions regarding dual-use items with potential military purposes and called for the sanctioning of any person or entity that assisted Tehran in weapons development or acquisition of chemical, biological, nuclear, or destabilizing numbers and types of advanced conventional weapons.⁹⁴

Unilateral sanctions against Iran expanded further under the Clinton administration. Executive Order 12957 banned all U.S. participation in the Iranian petroleum industry. Executive Order 12959 broadened the sanctions to encompass a total trade and investment embargo, and in 1996, Congress overwhelmingly passed the Iran and Libya Sanctions Act (ILSA), expanding US sanctions legislation to cover foreign companies. Use Sanctions Register of the Clinton administration. Executive Order 12959 broadened the sanctions to encompass a total trade and investment embargo, and in 1996, Congress overwhelmingly passed the Iran and Libya Sanctions Act (ILSA), expanding US sanctions legislation to cover foreign companies.

The ILSA received an extension during the George W. Bush Administration in 2001 and again in 2006 when it was renamed the Iran Sanctions Act. Executive Order 13382 froze the assets of proliferators of WMD, their supporters, and isolated them financially – eight Iranian entities and external organizations that were believed to be supporting Iranian WMD programs were sanctioned. 99

In 2006, Congress passed the Iran, North Korea, and Syria Nonproliferation Act (INKSNA), which provided penalties for the transfer to, or acquisition from Iran, of equipment and technology controlled under multilateral control lists (the Missile Technology Control Regime, Australia Group, Chemical Weapons Convention, Nuclear Suppliers Group, and Wassenaar Arrangement). 100

Sanctions Since 2010

As Iran's nuclear program has grown closer and closer to nuclear weapons production capability, the Obama Administration and Congress have drastically increased the size and scope of US sanctions. In 2010, Congress passed the Comprehensive Iran Sanctions, Accountability, and Divestment Act (CISADA).

CISADA imposed sanctions on any person that makes an investment of \$20 million or more in Iran's petroleum industry; any person that provides Iran with goods, services, technology or information with a fair market value of \$1 million or more for the maintenance or expansion of Iran's production of refined petroleum products; and/or any person that exports more than \$1

⁹⁴ http://www.mafhoum.com/press3/108E16.htm

⁹⁵ Executive Order 12957. http://www.iraniantrade.org/12957.htm

⁹⁶ Executive Order 12957. http://www.iraniantrade.org/12959.htm

⁹⁷ Iran and Libya Sanctions Act of 1996, from the congressional record. http://www.fas.org/irp/congress/1996_cr/h960618b.htm

⁹⁸ http://www.mafhoum.com/press3/108E16.htm

⁹⁹ Executive Order 13382. US Department of State. http://www.state.gov/t/isn/c22080.htm

¹⁰⁰ U.S. Department of State. Iran, North Korea, and Syria Nonproliferation Act Sanctions (INKSNA), www.state.gov

million worth of gasoline to Iran or provides \$1 million worth of goods or services that could contribute to Iran's ability to import gasoline. 101

Since 2010 the United States has focused on isolating Iran economically by targeting Iran's financial and commercial system. In doing so, the US has hoped to obstruct Iran's connections to international markets and dismantle the means by which it conducts economic transactions. This makes sense given the composition of Iran's GDP:

- Industry, including Iranian petroleum and petrochemical products, comprises 45.2% of Iran's GDP. 102
- Services, including banking and trade-related services, account for 43.9% of its GDP. 103

As a result, US sanctions have affected a number of key sectors in Iran's economy, as has the steady increase in the number and scope of other national and international sanctions.

On December 31, 2011, President Obama signed into law the FY2012 National Defense Authorization Act that implemented new sanctions through Section 1245. These new sanctions froze the assets of the Iranian government and prevented all Iranian financial assets in the U.S. from being "transferred, paid, exported, withdrawn, or otherwise dealt with". The order also implemented new sanctions that required US banks to seize the funds of those on the Specially Designated Nationals (SDN) list, even in the funds are not destined to a US entity or firm. Previously, US banks were required to block the transaction and return the funds to the sender. This order effectively blocks the Iranians from using the US banking system.

On August 10, President Obama signed into law H.R. 1905, the "Iran Threat Reduction and Syria Human Rights Act of 2012" which strengthened US sanctions against Iran. Most importantly, the Act makes US firms liable for their foreign subsidiaries' involvement in sanctionable activities with Iran. 105 It further required the President to sanction US companies who violate this act and increases the minimum number of sanctions the President is required to impose from three to five. The Act further widened sanctionable actions under CISADA to include the development of petroleum resources, transporting oil from Iran, the production or manufacturing of Uranium, the issuance of underwriting services or insurance to ships transporting Iranian oil, or the purchase, facilitation, or issuance of sovereign debt to the Government of Iran. 106

¹⁰¹Comprehensive Iran Sanctions, Accountability, and Divestment Act of 2010. http://frwebgate.access.gpo.gov/cgibin/getdoc.cgi?dbname=111_cong_reports&docid=f:hr512.111.pdf

¹⁰² CIA World Factbook, Iran.

¹⁰³ CIA World Factbook, Iran.

¹⁰⁴ "Executive Order—Blocking Property of the Government of Iran and Iranian Financial Institutions", The White House, Office of the Press Secretary, February 6, 2012.

¹⁰⁵ http://www.wilmerhale.com/publications/whPubsDetail.aspx?publication=10209

¹⁰⁶ http://www.govtrack.us/congress/bills/112/hr1905

Figure V.6: Major US Unilateral Sanctions against Iran

X 7	g	
Year	Sanction	Content
1979	Executive Order 12170	Blocked all property owned by the Central Bank and the government of Iran within U.S. jurisdiction.
1980	Executive Order 12205	Created an embargo on US exports to Iran.
	Executive Order 12211	Imposed a ban on all imports from Iran and prohibited US citizens from traveling to Iran or conducting financial transactions there.
1986	US Arms Export Control Act	Prohibited the sale of U.S. arms to Iran.
1987	Executive Order 12613	Banned all Iranian Imports to the US.
1992	Iran-Iraq Arms Non-Proliferation Act	Imposed sanctions on any entity that helped Iran develop or acquire weapons of mass destruction or "destabilizing numbers" of advanced conventional weapons.
1995	Executive Order 12957	Banned any American firm or individual from investing in or developing Iranian petroleum products, not including natural gas.
	Executive Order 12959	Banned all American trade and investment in Iran.
1996	Iran and Libya Sanctions Act	Sanctioned foreign firms that conducted business with Iran.
2005	Executive Order 13382	Froze the assets of proliferators of WMD and their supporters and isolated them financially. Eight Iranian entities and external organizations believed to be supporting Iranian WMD programs were designated under the executive order and sanctioned.
2006	Iran, North Korea, and Syria Nonproliferation Act	Penalized entities and individuals for the transfer to or acquisition from Iran since January 1, 1999, of equipment and technology controlled under multilateral control lists (the Missile Technology Control Regime, Australia Group, Chemical Weapons Convention, Nuclear Suppliers Group, Wassenaar Arrangement).
2010	Comprehensive Iran Sanctions, Accountability, and Divestment Act of 2010	Imposes sanctions on any person that makes an investment of \$20 million or more in Iran's petroleum industry, any person that provides Iran with goods, services, technology or information with a fair market value of \$1 million or more for the maintenance or expansion of Iran's production of refined petroleum products, and/or any person that exports more than \$1 million worth of gasoline to Iran or provides \$1 million worth of goods or services that could

		contribute to Iran's ability to import gasoline.
2011	FY 2012 National Defense Authorization Act	The FY 2012 National Defense Authorization Act, signed by the President in January, includes language that sanctions any international bank or financial institution that does business with the Iranian Central Bank (ICB), including purchases of crude oil.
2012	Iran Threat Reduction and Syria Human Rights Act	Makes US firms liable for their foreign subsidiaries' involvement in sanctionable activities, increases the minimum number of sanctions required to impose from three to five. Widens sanctionable actions under CISADA to include, among others, the development of petroleum resources, the issuance of underwriting services or insurance to ships transporting Iranian oil, or the purchase or facilitation of the issue of sovereign debt to the Government of Iran.

Sources: Sabatini, Richard, "Economic Sanctions: Pressuring Iran's Nuclear Program," Monterey Institute for International Studies, Nuclear Threat Initiative, June 24, 2010, http://www.nti.org.

http://www.nti.org/e_research/e3_economic_sanctions_pressuring_iran_nuclear_program.html#fn1

http://www.pmddtc.state.gov/regulations_laws/aeca.html

http://www.archives.gov/federal-register/codification/executive-order/12613.html

http://www.mafhoum.com/press3/108E16.htm

http://www.iraniantrade.org/12957.htm

http://www.iraniantrade.org/12959.htm

http://www.fas.org/irp/congress/1996_cr/h960618b.htm

http://www.state.gov/t/isn/c22080.htm

U.S. Department of State. Iran, North Korea, and Syria Nonproliferation Act Sanctions (INKSNA), www.state.gov. http://www.wilmerhale.com/publications/whPubsDetail.aspx?publication=10209

Figure V.7: UN Sanctions against Iran

Year	Sanction	Content			
2006	Resolution 1737	Halted nuclear cooperation with Iran, demanded Tehran's compliance with the IAEA, and froze the assets of persons and organizations linked the Iran's nuclear and missile programs. It also established a committee to ensure that sanctions were implemented correctly.			
2007	Resolution 1747	Banned Iranian arms exports.			
2008	Resolution 1803	Strengthened travel and financial restrictions on designated Iranian individuals and companies.			
2010	Resolution 1929	Imposed a complete arms embargo on Iran, banned Iran from any activities related to ballistic missiles, authorized the inspection and seizure of shipments violating these restrictions, and specifically targeted the assets of the Iranian Revolutionary Guard Corps (IRGC) and the Islamic Republic of Iran Shipping Lines (IRISL).			
(Source: http://www.un.org)					

International Sanctions – A Competition for Influence

International sanctions have had growing importance since 2006, when the UN Security Council passed Resolution 1737 banning nuclear cooperation with Iran. The UN has now passed seven resolutions on Iran, four of which have imposed sanctions (see **Figure V.7**). The US and Iran have competed for Russian and Chinese support throughout this process while America's key European allies (Britain, France, and Germany) have played a growing role in shaping sanctions and the diplomatic process that has followed.

Not only has the UN implemented new multilateral sanctions, but both the European Union and the US have crafted additional sanctions and consistently pushed for broader international adoption of these optional constraints. ¹⁰⁷ This US led coalition has rolled out strong new limitations on Iranian financial institutions, energy exports, and weapons acquisition. Kenneth Katzman explains that the expanded sanction regime has been widely implemented by US allies, though compliance from Iran's neighbors remains a challenge,

U.S. and European/allied approaches have converged since 2002, when the nuclear issue came to the fore. Previously, European and other countries had appeared less concerned than is the United States about Iran's support for militant movements in the Middle East or Iran's strategic power in the Persian Gulf—and had been reluctant to sanction Iran to address those issues. Since 2010, this convergence of views has produced an unprecedented degree of global cooperation in pressuring Iran. Many U.S. allies—including several neighbors of Iran, such as UAE and Saudi Arabia—have joined a U.S.-led informal coalition called the "like minded countries" to pressure Iran. And, increasingly, even Iran's neighbors are joining the effort—a result caused by the growing concerns about Iran's nuclear intentions. Some countries have joined the burgeoning sanctions regime not necessarily out of conviction of the efficacy of sanctions but rather as a means of perhaps heading off unwanted military action by the United States or Israel against Iran's nuclear facilities. ¹⁰⁸

Iran has tried to counter additional UN sanctions by leveraging its economic resources and relationships with non-Western powers such as Russia and China. Iran has also increasingly sought ties to powers such as Brazil and Nigeria, and to non-democratic governments, including the regimes of Hugo Chavez in Venezuela and Robert Mugabe in Zimbabwe. However, it is debatable how deep and significant the ties are to Venezuela and Zimbabwe, two countries that are at most, marginal regional powers. And the cooling of relations with Brazil in the wake of Dilma Rousseff's election through her focus on human rights issues has the potential to hurt Iran more than Venezuela and Zimbabwe will help, as trade between the Iran and Brazil totaled \$2.33 Billion in 2011. Furthermore, with the election of Ms. Rousseff, Iran lost the support of her predecessor, Luis da Silva, who attempted to insert Brazil into international politics by championing the Iranian nuclear issue.

Iranian strategy is anchored in the conviction that non-Western states share an interest in balancing US and Western power in the international system. As President Ahmadinejad has

 $^{^{107}}$ Matthew Levitt, Financial Sanctions, The Iran Primer, USIP, December 2010. http://iranprimer.usip.org/resource/financial-sanctions

¹⁰⁸ Kenneth Katzman, "Iran Sanctions, "CRS, September 13, 2012. Pg. 36

http://www.mdic.gov.br//sitio/interna/interna.php?area=5&menu=2477&refr=576

said, "We [non-Western nations] have to develop a proper coordination [...] to wriggle ourselves from the domination of Western powers."

The European Union and Other Western Nations

Ahmadinejad's inflammatory remarks have also become a symbol of how Iran's behavior has damaged Iran's relations with Europe. His controversial comments on Israel and denial of the Holocaust, which are particularly sensitive issues, have poisoned the diplomatic climate and have destroyed any inroads achieved during the Khatami presidency.¹¹¹

The EU countries imposed sanctions on Iran on July 27, 2010 that exceeded those mandated in Security Council resolutions. Norway, Canada, and Australia all announced similar, though less sweeping, sanctions at the same time as the EU. 112 The EU did make it clear in late October 2010 that these sanctions did not then prohibit importation of Iranian oil and gas, nor did they ban exports of gasoline to Iran. 113 This was consistent with the EU's effort to diversify its gas supply options and reduce its reliance on Russian gas imports, which amounted to around 32% of total EU demand in 2008. 114

This policy changed, however, as Iran's nuclear program became more threatening. A movement led by France and Britain in late 2011, culminated in an agreement by the EU at the end of January 2012 to implement a full import embargo on Iranian crude oil and petrochemicals. This move potentially affected some 450,000 barrels a day of in Iranian exports; nearly 20 percent of Iran's average crude exports in 2011 and the source of some 25% of its oil export income. It also affected international insurance coverage of Iran, and all transitions with Iran's state-owned oil company and its main tanker fleet.¹¹⁵

There was hesitation by some European governments that centered on ensuring there would be sufficient excess supply – mainly from Saudi Arabia – to prevent a major supply shock. Saudi Arabia, however, stated it would seek to make up the difference, which triggered decisive European action. ¹¹⁶

¹¹⁰ Steven Heydemann, "Iran's Alternative Allies," The Iran Primer, USIP, December 2010. http://iranprimer.usip.org/resource/irans-alternative-allies

¹¹¹ Walter Posch, "Iran and the European Union," The Iran Primer, USIP, December 2010. http://iranprimer.usip.org/resource/iran-and-european-union

¹¹² Kenneth Katzman, "Iran Sanctions," CRS, June 22, 2011.

¹¹³ Kenneth Katzman, "Iran Sanctions," CRS, June 22, 2011.

¹¹⁴ "The Nubucco Pipeline Project: Gas Bridge to Europe?", Mark Rowely, Pipeline and Gas Journal, Vol. 236 no. 9, September 2009. http://www.pipelineandgasjournal.com/nabucco-pipeline-project-gas-bridge-europe

¹¹⁵ Indira A.R. Lakshmanan, "Iran Sanctions Bid Targets Oil, Tanker Companies to Cut Exports," Bloomberg, Feb 6, 2012 2:26 PM ET; Indira A.R. Lakshmanan, Global Insurers Targeted in Latest U.S. Bid to Expand Sanctions on Iran, Bloomberg, Mar 8, 2012 11:10 AM ET; Al Arabiya, U.S. lawmakers take next step on new Iran sanctions on heels of European embargoes, Tuesday, 31 January 2012;

http://english.alarabiya.net/articles/2012/01/31/191608.htm; AP sources: Congress to seek new sanctions targeting all Iranian banks Associated Press, March 6, 2012, http://www.washingtonpost.com/politics/federal_government/apsources-congress-to-seek-new-sanctions-targeting-all-iranian-banks/2012/03/06/gIQA1p0XvR print.html.

¹¹⁶ Indira A.R. Lakshmanan, "Iran Sanctions Bid Targets Oil, Tanker Companies to Cut Exports," Bloomberg, Feb 6, 2012 2:26 PM ET; Indira A.R. Lakshmanan, Global Insurers Targeted in Latest U.S. Bid to Expand Sanctions on Iran, Bloomberg, Mar 8, 2012 11:10 AM ET; Al Arabiya, U.S. lawmakers take next step on new Iran sanctions on

The EU decision also tracked closely with the language of Section 1245 of the FY2012 NDAA that required the President to phase in sanctions on foreign purchases of Iranian oil and the banks that facilitated those payments by barring transactions with the Central Bank of Iran or any Iran-affiliated or owned bank.

The Europeans acted in spite of threats by Iran's Vice President Mohammed Reza Rahimi and Iranian officers to shut off the flow out oil from the Gulf. They also acted after Mohammad Ali Khatibi, Iran's OPEC governor said, on January 17, 2012 that, "Applying the scenario of sanctions on Iran's oil exports to EU members would be economic suicide for the member countries...Regarding the economic crisis in the eurozone, imposing any sanction on Iran's oil will push European countries into a deeper crisis."

These threats were so exaggerated that they would have rung hollow under any circumstances, but they were particularly hollow because Saudi Arabia's oil minister, Ali Al-Naimi, had stated on January 16th that "We are prepared to meet the increase in global demand as a result of any circumstances." While Iran then responded by indirectly threatening Saudi Arabia, it had no more impact on the Saudis than it did on Europe. 117

Moreover, the EU took another critical step, and directed the Society for Worldwide Interbank Financial Telecommunication (SWIFT), to "discontinue its communications services to Iranian financial institutions that are subject to European sanctions." SWIFT is essential to Iran's international banking because it provides secure communications for more than 10,000 financial institutions and corporations in 210 countries.

SWIFT reported in 2010 that 19 Iranian member banks and 25 financial institutions used the network over 2 million times during the course of the year. These institutions included the Central Bank of Iran and other major Iranian banks, including Bank Melli, Bank Mellat, Tejarat Bank, Bank Refah, Future Bank, Persia International Bank, Post Bank and Europäisch-Iranische Handelsbank, and unlike import sanctions, Iran had no alternative to the use of SWIFT.

On October 15th, the EU instituted new sanctions that affected the Iranian financial industry and central bank, its shipping industry, oil and gas sector, and restricted Iranian importation of graphite, steel, and other raw materials. The sanctions also prohibits the provision of flagging and classification services to Iranian tankers and cargo vessels in the EU or by EU nationals, bans vessels owned by EU citizens or companies from transporting or storing Iranian oil, and forbids EU companies from providing shipbuilding technology and naval equipment to Iran.

The Council of the European Union adopted the following conclusions:

sources-congress-to-seek-new-sanctions-targeting-all-iranian-banks/2012/03/06/gIQA1p0XvR_print.html.

117 Associated Press, Iran warns EU oil embargo would be 'economic suicide' for Europe, January 17, 2012.

¹¹⁸ Rick Gladstone and Stephen Castle, "Global Network Expels as Many as 30 of Iran's Banks in Move to Isolate Its Economy," New York Times, March 16, 2012, http://www.nytimes.com/2012/03/16/world/middleeast/crucial-communication-network-expelling-iranian-banks.html?_r=1; Thomas Endbrink and Joby Warrick, "Grim Outlook on Nuclear Talks," Washington Post, March 16, 2012, p. A7.

- The Council reiterates its serious and deepening concerns over Iran's nuclear programme and the
 urgent need for Iran to comply with all its international obligations, including full implementation by
 Iran of UNSC and IAEA Board of Governors' Resolutions.
- 2. The Council condemns the continuing production of enriched uranium and expansion of Iran's enrichment capacity, including at the Fordow site, and continued heavy-water activities in breach of UNSC and IAEA Board of Governors' Resolutions, as reflected in the most recent IAEA report. The Council notes with particular concern Iran's obstruction of the IAEA work towards the clarification of all outstanding issues, including with respect to the possible military dimension to Iran's nuclear programme. Therefore, the Council welcomes the adoption with overwhelming majority by the IAEA Board of Governors of its Resolution on 13 September 2012 deciding that Iran's cooperation was essential and urgent in order to restore international confidence in the exclusively peaceful nature of Iran's nuclear programme.
- 3. Iran is acting in flagrant violation of its international obligations and continues to refuse to fully cooperate with the IAEA to address the concerns on its nuclear programme. In this context, and in coherence with previous European Council and Council conclusions, the Council has agreed additional restrictive measures in the financial, trade, energy and transport sectors, as well as additional designations, notably of entities active in the oil and gas industry. In particular, the Council has agreed to prohibit all transactions between European and Iranian banks, unless authorised in advance under strict conditions with exemptions for humanitarian needs. In addition, the Council has decided to strengthen the restrictive measures against the Central Bank of Iran. Further export restrictions have been imposed, notably for graphite, metals, software for industrial processes, as well as measures relating to the ship building industry.
- 4. The Council reaffirms the longstanding commitment of the European Union to work for a diplomatic solution to the Iranian nuclear issue in accordance with the dual track approach.
- 5. The Council reaffirms that the objective of the EU remains to achieve a comprehensive, negotiated, long-term settlement, which would build international confidence in the exclusively peaceful nature of the Iranian nuclear programme, while respecting Iran's legitimate rights to the peaceful uses of nuclear energy in conformity with the NPT, and fully taking into account UN Security Council and IAEA Board of Governors' Resolutions. The Council welcomes the determination for a diplomatic solution expressed by E3+3 Foreign Ministers on 27 September in New York and fully endorses the efforts led by the High Representative on behalf of the E3+3 in this regard. E3+3 have made a credible and substantial confidence building proposal for negotiations guided by the agreed principles of reciprocity and a step by step approach. The Council urges Iran to engage constructively, by focusing on reaching an agreement on concrete confidence building steps, negotiating seriously and addressing the concerns of the international community."

Figure V.8: EU Sanctions Against Iran

Year Sanction Content

July, 2010 Council Decision 2010/413/CFSP¹¹⁹

Establishes and embargo on nearly all dual-use goods, military arms, and nuclear-related items. Bans EU export of key equipment and technology for oil and natural gas production, exploitation, and refining. Bans technical assistance, training, and financing in Iran's energy sector. Bans access to EU airports for Iranian cargo flights, bans the provision of bunkering or ship services to Iranian or Iranian contracted vessels and aircraft if they have been involved in sanctions violations. Requires all cargo to and from Iran to be inspected. Money transfers of more than $\ensuremath{\in} 40,000$ require authorization; transfers of more than $\ensuremath{\in} 10,000$ require notification. Bans Iranian banks from establishing a presence in the EU and any relationships with EU banks. Prohibits the sale, purchase of, or facilitation of public or public-guaranteed bonds to and from the Government of Iran or any Iranian bank. Bans the provision of insurance and reassurance to the Government of Iran or any entities connected to said entity. 120

April, 2011 Council Decision 2011/235/CFSP¹²¹

Freezes the funds and prevents entry into Europe of people responsible for human rights violations.

January, 2012 Council Decision 2012/35/CFSP

Amends Council Decision 2010/413/CFSP. Bans the import, purchase, or transport of all Iranian oil products and financing, facilitating of financing, or participation in the Iranian petrochemical industry is prohibited. Freezes the assets of additional Iranian entities. Bans the direct or indirect sale, transportation of, or facilitation of gold, precious metals, and diamonds to or from the Government of Iran or its associate entities. Expands the list of prohibited dual-use items or technology. Prohibits the delivery of newly minted or unissued Iranian banknotes and coinage. 122

Council Decision 2012/168/CFSP

Establishes an embargo on telecommunications monitoring, interception equipment, and other equipment used for internal repression.

March, 2012

October, 2012

Council Decision 2012/152/CFSP Council Decision 2012/413/CFSP¹²⁴ Prohibits the provision of specialized financial messaging services to any financial institution subject to EU Iranian sanctions. ¹²³
Prohibits any transactions between European and Iranian banks excer

Prohibits any transactions between European and Iranian banks except for those authorized in advance and under strict conditions. Bans the export of graphite, aluminum, steel, industrial facility control software, and their related technical or financial assistance. Prohibits the

 $[\]frac{119}{\text{http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2010:195:0039:0073:EN:PDF}$

 $[\]frac{^{120}\text{http://www.erenlaw.com/pdfs/Eren} \%\,20Lawyers\%\,20-\%\,20EU\%\,20S anctions\%\,20-\%\,20Iran\%\,2010\%\,2019\%\,202010.pdf}$

 $[\]frac{121}{\text{http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2011:100:0051:0057:EN:PDF}$

¹²² http://www.whitecase.com/files/Publication/5367d699-2dd9-42ad-8c64-daab919f74dd/Presentation/PublicationAttachment/8ec8b77d-6c96-45de-b426-e20ad9ca050d/alert-Tightened-Iran-Sanctions-01262012.pdf

http://www.cgsh.com/files/News/afee39c0-8e14-49ea-8896-6df1ca39d946/Presentation/NewsAttachment/c4513dca-d005-4c28-ae96-6f77c3424ee9/CGSH%20Alert%20-%20EU%20Implements%20Strengthened%20Iran%20Sanctions.pdf

¹²⁴ http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2012:282:0058:0069:EN:PDF

importation of Natural Gas from Iran. Bans short-term credits, guarantees, and insurance. Prohibits the provision of flagging and classification services to Iranian tankers and cargo vessels in the EU or by EU nationals. Bans vessels owned by EU citizens or companies from transporting or storing Iranian oil. Forbids EU companies from providing shipbuilding technology and naval equipment to Iran. Broadens the export ban on equipment for Iran's oil, gas, and petrochemical industries. Targets 34 Iranian entities with asset freezes and travel bans including the Ministries of Petroleum and Energy, the Iranian Central Bank, and various Iranian oil and petrochemical companies. ¹²⁵

The Role of Other Importers

As has been pointed out earlier, however, much depends on the policies of other importing states. For sanctions to fully succeed, however, other key importers and trading partners – the nations shown in **Figure V.9** and **Figure V.10** – must agree to major reductions in imports and actually make these reductions over time. It is far too early to determine how well such efforts to broaden reductions in imports from Iran will succeed, but key exporters like Saudi Arabia have will increased production to help make up for the loss of Iranian exports, and key nations like China have already reached out to Saudi Arabia and other Arab exporters to help reduce their dependence on Iran. China, Iran's largest export partner by volume, has reduced its purchases recently, importing 454,000 barrels per day in July opposed to 522,000 barrels per day in May. However these first quarter cuts were mostly due to contract negotiations and not, it seems, because of pressure from the West. It is still to be seen if China will reduce its purchases of Iranian oil in light of the fact that they just received an exemption from US sanctions. It is far too early, however, to know what Iran's other major importers will do. It is succeed.

 $^{{}^{125}\,\}underline{http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2012:282:0016:0022:EN:PDF}$

¹²⁶ http://www.reuters.com/article/2012/08/21/us-china-oil-iran-idUSBRE87K0LK20120821

 $[\]frac{127}{http://www.reuters.com/article/2012/08/21/china-oil-iran-idUSL4E8JL2DI20120821}$

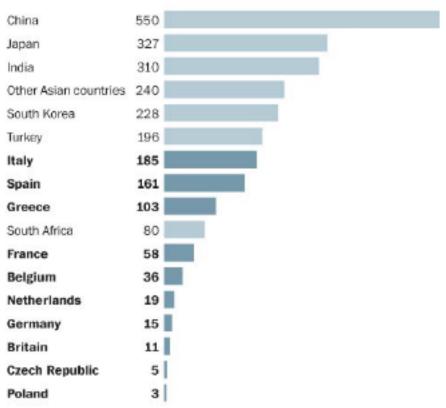
¹²⁸ David Ignatius, "A slippery slope," Washington Post, January 18, 2012, p. A17.

Figure V.9: Major Importers of Iranian Crude Oil in January- September 2011

(Iran exported some 2.2 million barrels a day in 2011)



By country, in thousands of barrels a day from January to September 2011



Source: International Energy Agency. The Washington Post. Published on January 13, 2012, 7:51 p.m.

Figure V.10 Iran's Major Trading Partners – Part One

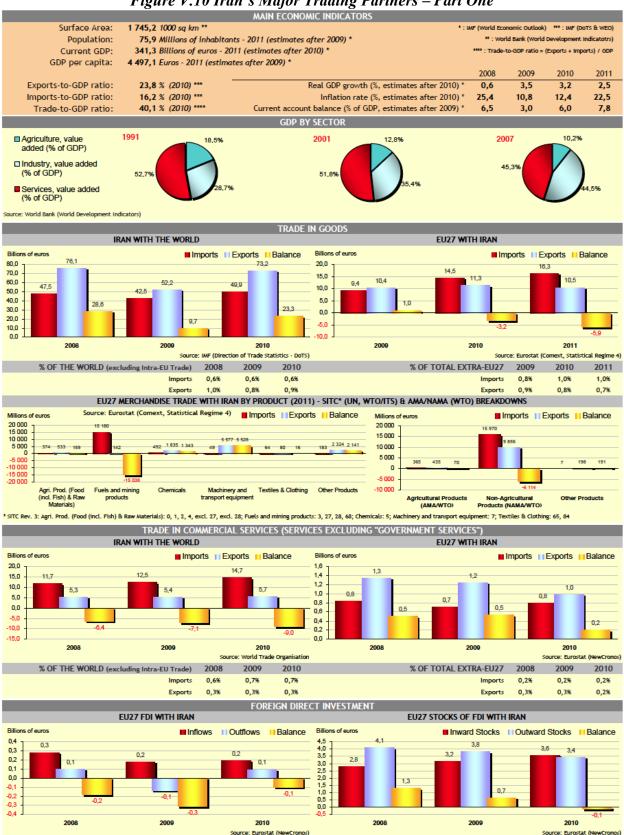


Figure V.10 Iran's Major Trading Partners – Part Two
The Major Imports Partners The Major Export Partners The Major

The Major Trade Partners

Б.	2		O/			***	O/	D.			0/
Rk	Partners	Mio euro	%	Rk	Partners	Mio euro	<u>%</u>	Rk	Partners	Mio euro	%
	World (all countrie	49 902,3	100,0%		World (all countrie	73 185,7	100,0%		World (all countrie	123 087,9	100,0%
1	United Arab Emirat	16 949,1	34,0%	- 1	EU27	13 028,8	17,8%	1	EU27	23 767,5	19,3%
2	EU27	10 738,6	21,5%	2	China	12 527,1	17,1%	2	United Arab Emirat	17 606,8	14,3%
3	China	4 336,9	8,7%	3	Japan	7 640,7	10,4%	3	China	16 864,0	13,7%
4	Turkey	2 875,8	5,8%	4	India	7 612,2	10,4%	4	India	8 946,6	7,3%
5	South Korea	2 788,7	5,6%	5	Turkey	5 264,7	7,2%	5	Japan	8 810,9	7,2%
6	Switzerland	2 698,0	5,4%	6	South Korea	4 770,0	6,5%	6	Turkey	8 140,5	6,6%
7	India	1 334,4	2,7%	7	South Africa	2 618,6	3,6%	7	South Korea	7 558,7	6,1%
8	Japan	1 170,2	2,3%	8	Singapore	1 534,4	2,1%	8	Switzerland	2 727,4	2,2%
9	Singapore	1 070,8	2,1%	9	Pakistan	859,5	1,2%	9	South Africa	2 679,0	2,2%
10	Russia	868,4	1,7%	10	Syria	742,1	1,0%	10	Singapore	2 605,2	2,1%
11	Brazil	456,2	0,9%	11	Sri Lanka	695,4	1,0%	11	Pakistan	1 163,7	0,9%
12	Malaysia	421,0	0,8%	12	United Arab Emirate	657,7	0,9%	12	Russia	1 053,7	0,9%
13	Ukraine	355,0	0,7%	13	Saudi Arabia	551,1	0,8%	13	Syria	764,4	0,6%
14	Pakistan	304,2	0,6%	14	Indonesia	408,3	0,6%	14	Sri Lanka	732,7	0,6%
15	Oman	238,4	0,5%	15	Malaysia	274,1	0,4%	15	Saudi Arabia	729,4	0,6%
16	Thailand	187,5	0,4%	16	Hong Kong	263,0	0,4%	16	Malaysia	695,0	0,6%
17	Saudi Arabia	178,3	0,4%	17	Thailand	196,4	0,3%	17	Indonesia	581,9	0,5%
18	Indonesia	173,6	0,3%	18	Russia	185,3	0,3%	18	Brazil	550,0	0,4%
19	Turkmenistan	132,4	0,3%	19	Turkmenistan	161,1	0,2%	19	Ukraine	389,5	0,3%
20	United States	131,9	0,3%	20	Armenia	137,3	0,2%	20	Thailand	383,9	0,3%
21	Philippines	115,0	0,2%	21	Australia	129,2	0,2%	21	Hong Kong	357,0	0,3%
22	Canada	110,8	0,2%	22	Oman	104,5	0,1%	22	Oman	342,9	0,3%
23	Kazakhstan	107,1	0,2%	23	Morocco	101,4	0,1%	23	Turkmenistan	293,5	0,2%
24	Azerbaijan	96,5	0,2%	24	Tadjikistan	97,2	0,1%	24	Australia	204,6	0,2%
25	Hong Kong	94,0	0,2%	25	Brazil	93,7	0,1%	25 26	United States	198,7	0,2%
26	Argentina	86,6	0,2%	26	Lebanon	86,7	0,1%		Philippines	192,0	0,2%
27	Kuwait Uzbekistan	85,6	0,2%	27	Azerbaijan	80,9	0,1%	27	Azerbaijan	177,4	0,1%
28	Australia	78,9	0,2%	28	Philippines	77,1	0,1%	28	Armenia	169,9	0,1%
29	South Africa	75,3 60,3	0,2%	29	Vietnam	69,0	0,1%	29	Lebanon Canada	142,8	0,1%
30		,-	0,1%	30	United States	66,8	0,1%	30		138,6	0,1%
31 32	Lebanon	56,1	0,1%	31 32	Qatar	64,2	0,1%	31	Tadjikistan	131,0	0,1%
33	New Zealand	55,4	0,1%		Kenya	44,5	0,1%	32	Morocco	128,1	0,1%
34	Tunisia	54,6	0,1%	33 34	Sudan	39,8	0,1%	34	Kazakhstan	126,6	0,1%
	Bangladesh	54,1	0,1%		Georgia	38,0	0,1%		Argentina	102,9 99,4	0,1%
35 36	Bahrain	45,1 44,5	0,1%	35 36	Ukraine	34,5 33,7	0,0%	35 36	Qatar	99,4 87,8	0,1%
	Egypt Belarus				Bangladesh			37	Bangladesh Kuwait		
37 38		37,8	0,1%	37 38	Egypt	29,8	0,0%	38		85,6	0,1%
38	Sri Lanka	37,2	0,1%	38	Switzerland	29,4	0,0%	38	Uzbekistan Vietnam	78,9	0,1%
40	Qatar Tadiikistan	35,3	0,1%	40	Canada	27,8	0,0%	40		78,1 74,3	0,1%
41	Tadjikistan	33,8	0,1%	41	Algeria Kazakhstan	27,2	0,0%	41	Egypt		0,1%
	Armenia	32,6				19,5	0,0%		Tunisia	65,5	0,1%
42	lraq Paraguay	31,6	0,1%	42	Norway	17,3	0,0%	42	New Zealand	60,7	0,0%
43	Paraguay	29,9 26,7	0,1% 0,1%	43	Argentina Tunisia	16,3 10,9	0,0%	43	Georgia Kenya	48,6 47,4	0,0%
44	Morocco			44 45			0,0%	44	•		0,0%
45	Syria	22,4	0,0%		Venezuela T	10,8	0,0%	45 46	Bahrain	45,1	0,0%
46 47	Norway	15,8	0,0%	46 47	Tanzania	10,5	0,0%	46 47	Belarus	43,1	0,0%
	Guatemala	15,4	0,0%		Ivory Coast	7,7	0,0%		Sudan	39,8	0,0%
48 49	Georgia	10,6	0,0%	48 49	Jordan	6,5	0,0%	48 49	Norway	33,0	0,0%
	Afghanistan	9,7	0,0%		Kyrgyz Republic	6,1	0,0%		Iraq	31,6	0,0%
50	Ecuador	9,7	0,0%	50	New Zealand	5,4	0,0%	50	Paraguay	29,9	0,0%

 $Source: http://trade.ec.europa.eu/doclib/docs/2006/september/tradoc_113392.pdf$

Japan and South Korea

Japan and South Korea are just two of the countries for which sanctions present problems because of their dependence on Iranian imports. Both Japan and South Korea did accede to the US-led unilateral sanctions in September 2010. However, these decisions only came after strong encouragement from the United States.

Both nations had substantial commercial and energy ties to Tehran and were hesitant to endanger their economic interests. Japan and South Korea both imported roughly 10 percent of their crude oil from Iran and leaders in Tehran made it clear that full sanction implementation would not go unnoticed.¹²⁹ The head of the Iranian National Security and Foreign Policy Commission warned that, "Joining the sanctions that are beyond the (UN Security Council) resolutions and are imposed under the US pressure will no doubt be a negative point for those states which comply with these illegal decisions [...] Certain countries' compliance with the illegal decisions of the arrogant powers will affect the way the Islamic Republic of Iran interacts with them".¹³⁰

For Japan, imposing the new sanctions meant that Inpex Corp, a partially state-owned oil developer, abandoned a project to develop the Azadegan field in which they'd already invested \$150 million. The Koreans endangered billions of dollars' worth of shipbuilding and construction contracts with Iran. US officials recognized the large economic sacrifices they were asking of their Asian allies and expected a less robust commitment.

Despite the potential economic loss of Iran as an energy and industrial partner, South Korea and Japan have both instituted sanctions similar to those imposed by the EU that restrict trade, financing, banking, and participation in Iran's nuclear program. Both countries have also pledged to reduce their oil purchases from Iran by 20% for Japan and 15% for South Korea. So far Japan has further decreased its purchases by 39% and South Korea has further reduced its purchases by roughly 20%. ¹³³

But Japan and South Korea will not stop importing Iranian oil at any point in the near future, and both countries have set up state-backed insurance mechanisms that allow them to continue importing oil outside of US and EU sanctions. Some estimates are skewed by the loss of insurance coverage for tankers and the subsequent elimination of Japanese oil purchases. And Japan, like South Korea, will not completely eliminate imports of Iranian oil and the lower house of Parliament has passed a bill to provide government guarantees on insurance for tankers delivering Iranian oil. 135

¹²⁹ Reuters, "South Korea Imposes New Wave of Iran Sanctions", Jack Kim, September 8, 2010. http://uk.reuters.com/article/2010/09/08/korea-iran-idUKSGE68707X20100908

¹³⁰ Fars News Agency, "MP cautions S. Korea, Japan against implementing anti-Iran sanctions, September 8, 2011. http://english.farsnews.com/newstext.php?nn=8906161619

¹³¹ UPI, "Iran's drive to halt oil decline falters," August 24, 2011. http://www.upi.com/Business_News/Energy-Resources/2011/08/24/Irans-drive-to-halt-oil-decline-falters/UPI-27401314208450/

¹³² Reuters, "South Korea Imposes New Wave of Iran Sanctions", Jack Kim, September 8, 2010. http://uk.reuters.com/article/2010/09/08/korea-iran-idUKSGE68707X20100908

http://news.yahoo.com/clinton-japan-10-eu-nations-further-exception-iran-205705143.html

¹³⁴ http://in.reuters.com/article/2012/09/13/iran-oil-customers-idINL6E8I57AD20120913

 $[\]frac{135}{http://www.reuters.com/article/2012/06/15/us-oil-japan-iran-idUSBRE85E0B320120615}$

Nevertheless, these unexpectedly strong moves by Tokyo and Seoul reinforced the growing international consensus against the Iranian position. Secretary of State Clinton stated that, "The United States welcomes the announcement by Japan of new sanctions on Iran [...] [They] mark a significant step forward in the international community's efforts to combat proliferation and prevent Iran's development of nuclear weapons."¹³⁶

Senior US counter-proliferation officials successfully lobbied the South Koreans, at the end of 2011, to implement new restrictions on the Iranian nuclear industry, resulting in blacklisting over 100 new firms and individuals. Seoul, however, made clear their intent to continue importing crude oil and petrochemicals from Iran. The Iranian Central Bank maintains accounts in Seoul that it uses to process oil payments, and the Korean government's unwillingness to shut them down would appear to run afoul of US Section 1245 sanctions. This policy inconsistency will have to be ironed out diplomatically by the US administration and technical and/or legislative remedies will need to be implemented.

Recently, however, South Korea has taken steps to reduce its economic relationship with Iran. In June, the Korea International Trade Association (KITA) imposed limits on Korean exports on steel, consumer goods, and electronics to Iran. The actual limit on goods was not specified, but KITA stated that new export deals with Iran would only be approved if their repayment date was less than 180 days.¹³⁷

As of September 2012, Japan and South Korea remained cautious and have not yet committed themselves to anything approaching a total end to Iranian oil imports. While South Korea's imports of Iranian oil ceased in July and August, it was due to the loss of insurance coverage for oil tankers rather than governmental policy. There are already reports that the country will continue to buy some 6 million barrels in September, roughly a drop of 940,000 barrels from a year before.¹³⁸

Japan's prime minister, Yoshihiko Noda, expressed this caution on January 13, 2012, when he corrected the stronger support his finance minister, Jun Azumi, had given such sanctions a day earlier, and said that his Government would have to consult the business sector, and "Japan's basic stance is to resolve such matters diplomatically and peacefully...We need to consult with the business community, and we need to work out details with U.S. officials. We have to think about the implications for Japanese banks, and what measures are needed to resolve possible negative impact." ¹³⁹

Both countries have issued statements supporting sanctions and upholding the US policy of preventing Iran from obtaining a nuclear weapon; however, while the two countries have reduced their imports of Iranian oil, they are not expected to eliminate future purchases. Because of their

¹³⁶ UPI, "Japan imposes additional Iran sanctions," September 3, 2010. http://www.upi.com/Top_News/US/2010/09/03/Japan-imposes-additional-Iran-sanctions/UPI-87741283534034/

 $[\]frac{137}{\text{http://articles.chicagotribune.com/2012-06-14/news/sns-rt-iran-koreaexports-urgentl3e8he3h0-20120613_1_iranian-oil-exports-iranian-crude}$

¹³⁸ http://blogs.platts.com/2012/09/14/korea-margins/

¹³⁹ The Associated Press, "Japanese PM: Govt has yet to decide on reducing Iranian oil imports in line with US sanctions," January 13, 2012; Keith Bradsher and Clifford Krause, "Pressed by U.S., Asian Countries Look for Ways to Reduce Purchases of Iranian Oil," New York Times, January 6, 2012.

support for reducing their reliance on Iranian oil, the US granted waivers to South Korea (June 11) and Japan (September 17). Secretary of State Clinton, in her announcement stated, "Japan has...taken significant steps to reduce its crude oil purchases, which is especially notable considering the extraordinary energy challenges it has faced in the aftermath of the Fukushima disaster" 140

India

India has traditionally had close ties to Iran and been unwilling to impose stringent sanctions. India imports roughly 12 million barrels of Iranian crude oil every month. This accounts for 10 percent of all Indian oil imports, making Iran their largest supplier after Saudi Arabia. As Iran's image throughout the Arab world has foundered, however, and international pressure on the regime has increased, India has practiced a more assertive foreign policy with Tehran. Leaked diplomatic cables have revealed India's growing interest in the Iranian sanction regime. Former foreign secretary Nirupama Rao had asked then US ambassador Tim Roemer in February 2010, "in the future the GOI be accorded the opportunity to take part in pre-sanction consultations." ¹⁴²

In December of 2010, the Reserve Bank of India made an unexpected decision to prohibit Indian companies from using the Asian Clearing Union (ACU) to pay Iran for oil imports. The ACU is a Tehran-based regional body that was established by the UN in the 1970s in order to more easily facilitate commerce among Asian nations. However, the ACU effectively allowed companies to launder payments to Iran that may have run afoul of international sanctions. A key US Treasury official heralded the move as "a significant action" to support US sanctions and further isolate Iran from international financial institutions.

India will cut its imports by 11%, junior oil Minister R.P.N. Singh said in May, but the country still imported some 344,000 barrels per day from January-July 2012, down from roughly 352,000 barrels per day in the same period a year before. Like Japan, the Indian government has offered state-backed insurance to shipping companies transporting Iranian oil to India. 146

 $[\]frac{140}{\text{http://www.upi.com/Business_News/Energy-Resources/2012/09/17/Japan-gets-Iranian-sanctions-waiver/UPI-21601347878973/}{21601347878973/}$

¹⁴¹ The Associated Press, "Report: Iran threatens to cut oil supply to India by August if \$5 billion payment not made," July 18, 2011. http://www.canadianbusiness.com/article/34462--report-iran-threatens-to-cut-oil-supply-to-india-by-august-if-5-billion-payments-not-made

¹⁴² The Times of India, "India asked US for inclusion in pre-sanction talks on Iran," September 6, 2011. http://articles.timesofindia.indiatimes.com/2011-09-06/india/30118608_1_nuclear-issue-iranian-foreign-minister-iran-shares

¹⁴³ Indian Express, "US welcomes India bid to restrict trade with Iran," December 30. 2010. http://www.indianexpress.com/news/us-welcomes-india-bid-to-restrict-trade-with/730980/

¹⁴⁴ Indian Express, "US welcomes India bid to restrict trade with Iran," December 30. 2010. http://www.indianexpress.com/news/us-welcomes-india-bid-to-restrict-trade-with/730980/

¹⁴⁵ http://in.reuters.com/article/2012/09/13/iran-oil-customers-idINL6E8I57AD20120913

^{146 &}lt;a href="http://www.bloomberg.com/news/2012-08-01/iran-oil-shipping-to-resume-as-insurers-step-in-corporate-india.html">http://www.bloomberg.com/news/2012-08-01/iran-oil-shipping-to-resume-as-insurers-step-in-corporate-india.html

But India has shown less enthusiasm for reducing its Iranian oil imports than other countries. In October, Indian Oil Minister S Jaipal Reddy stated at the Indian Petroctech 2012 Conference that, "We are neither trying to reduce nor increase imports from Iran." ¹⁴⁷

Some experts believe, though, that the fact Delhi stepped away from Tehran had more to do with managing important Indian relationships with the Arab world. P.R. Kumaraswamy, head of West Asian studies at New Delhi's Jawaharlal Nehru University, observed: "When it comes to Iran, India can ignore pressure from the U.S. and noises from Israel, but it cannot ignore concerns from the Arab countries [...] In a very subtle way, India is sending a message that its closeness with Iran will not affect relations with other Middle Eastern countries." India's ties to Iran have made the country hesitant to fully back US, EU, and UN sanctions. But India has been reducing its reliance on Iranian oil since 2008 and is becoming increasingly concerned over Iran's nuclear program. However, this has not stopped India from continuing their economic relationship with Iran as well as finding financial avenues to facilitate trade.

After India declared it would no longer use the ACU to process payments to Iran, the two countries agreed on an Iranian bank, Europaisch-Iranische Handelsbank (EIH) to process the payments. But when EU sanctions listed EIH, India and Iran agreed to use Turkey's Halkbank as an alternative, which then withdrew from the agreement after sanctions under Section 1245 of the FY2012 NDAA were instituted. India then pressured Iran into accepting 45% of the oil payment in non-convertible rupees. These difficulties and forced Iranian concessions have increased tensions between the two countries and India now imports roughly 10% of its oil from Iran. However, it will be difficult for India to completely end commerce with Iran owing to their close historical and economic ties.

China and Russia

The position of Russia and China on the issue of Iranian sanctions has been one of ongoing concern to both the United States and Iran. Russia and China are two of Iran's largest economic and energy partners, and their participation in a truly demanding sanctions regime would put severe pressure on Iran – a situation the Iranians have long sought to avoid. So far, Russia and China have acquiesced to numerous UN sanctions, but have not gone so far as to implement any unilateral sanctions of their own. The formal position of both Russia and China is that they will impose only those sanctions required by applicable UN Security Council resolutions but not impose any sanctions beyond those specifically mandated. However, in practice, both states exploit this aspect of US and Iranian competition to some degree, and adapt their positions accordingly.

The unique relationship between China, Russia, Iran, and the United States will be explored more deeply in Chapter 10, but it is important to understand that this is a primary field of strategic competition. Both China and Russia are large, ambitious actors whose ties to both Iran

 $[\]frac{147}{http://economic times.indiatimes.com/news/news-by-industry/energy/oil-gas/india-to-keep-iran-oil-shipments-at-current-levels/articleshow/16823977.cms$

¹⁴⁸ Reuters, "India, Iran aim to resolve oil payments impasse," Nidhi Verma, December 31, 2010. http://in.reuters.com/article/2010/12/31/idINIndia-53860420101231

¹⁴⁹ Kenneth Katzman, "Iran Sanctions," CRS, June 22, 2011.

and the US are practical rather than ideological. Beijing and Moscow serve their own interests first and view the Iranian-US contest as more of an opportunity than anything else. Their actions and motivations, therefore, need to be viewed through that prism.

China

China plays a key role in determining the success of any sanctions regime on Iran. Whether the US is seeking compliance with existing sanctions or support for extending and deepening the constraints placed on Tehran, Chinese assistance will be vital to their success. Beijing's enormous demand for energy resources has led to long-standing commercial ties to the Islamic Republic, and they are not afraid to protect those interests at the UN Security Council. This has resulted in the Chinese trying to find a balance that best serves their interests; shielding Iranian commerce to the maximum extent possible while avoiding inflaming their Western partners.

Scott Harold of RAND summarizes China's relationship as follows,

"Many countries are wary of Iran's nuclear activities and assertive foreign policies but at the same time attracted to its abundant energy resources and economic potential. Yet few have been as bold as China in seizing these latter opportunities. As a result, China is in the paradoxical position of having more leverage than almost any other country vis-à-vis Iran, but also having the most to lose should more broadly punitive sanctions be imposed or war break out, a fact not lost on Chinese analysts and policymakers.

...China's relations with Iran are primarily shaped by its economic interests, particularly its expanding energy needs. Additionally, China's policy toward Iran is deeply influenced by the PRC's perceived rivalry with the United States, based on the suspicions of many Chinese decision makers that the United States seeks to block China's rise to great-power status, balanced against China's dependence on maintaining a stable economic relationship with the United States." ¹⁵⁰

Beijing is keenly aware of its role in the regional competition for influence and view Iran as "a useful hedge against a hostile United States." This has created a situation where the Chinese have supported the UN sanctions, but denounced the additional measures pushed by the US, Australia, and EU. The US, in turn, has exempted Chinese imports of Iranian oil from sanctions on June 28th. China's Foreign Ministry spokesman, Qin Gang, observed in 2011 that, "China has noticed the unilateral sanctions announced by the US and others over Iran. The Security Council not long ago adopted the 1929 Resolution on the Iranian issue. China believes that the resolution should be earnestly, accurately and fully implemented, instead of being arbitrarily interpreted and expanded." 152

China's primary concern is avoiding the possibility of expanded UN sanctions on Iran's energy sector that would affect China's imports. Iran supplies China with around 9% of its oil, down from nearly 15% a few years ago.¹⁵³ Beijing only agreed to support Resolution 1929 after the

¹⁵⁰ Scott Harold, "China and Iran: Economic, Political, and Military Relations". 2012 RAND Corporation.

¹⁵¹ John W. Garver, China and Iran: Ancient Partners in a Post-Imperial World (Seattle: University of Washington Press, 2007), 96.

¹⁵² "Foreign Ministry Spokesperson Qin Gang's Regular Press Conference on July 6, 2010," Ministry of Foreign Affairs of the People's Republic of China. http://www.nyconsulate.prchina.org/eng/fyrth/t714568.htm

¹⁵³ The Jerusalem Post, "US and China looking to Middle East for more oil," David Rosenberg, September 9, 2011. http://www.jpost.com/MiddleEast/Article.aspx?id=237314

provision was altered to include key exemptions for continued foreign investment in Iran's energy sector. 154

A March 2008 diplomatic cable released by Wikileaks quotes a communication between Chinese Arms Control Director General Cheng Jingye and Senate Foreign Relations Committee East Asia specialist Frank Jannuzi. Jingye says that, "China has made clear its need for energy resources and has previously stated that its cooperation with Iran on energy has nothing to do with the Iran nuclear issue. [...] The threat of sanctions against Sinopec [a major Chinese oil company] is a very serious issue. [...] Sinopec is very important to China and Cheng 'can't imagine' the consequences if the company is sanctioned."¹⁵⁵

The US has tried to reassure China. In an effort to secure China's cooperation with halting Iran's nuclear program, US officials have told China that they do not have to reduce their Iranian oil and gas imports. According to a US official quoted in the Washington Post, the US is trying to encourage China to exercise "some near-term pragmatic restraint." The top US priority, however, is halting the Iranian nuclear program, and the US is willing to make some concessions on strengthening the sanction regime in order to secure China's cooperation on non-proliferation efforts.

Despite China's hesitance to speak out against Iran's nascent nuclear program, it is not eager to confront Washington. Chinese investment in Iran totaled \$1 billion in 2011; in comparison Chinese firms have invested \$4.6 billion in energy assets in the United States, plus some \$460 billion in other investments, in US. The total volume of Chinese trade with the US in 2011 was \$503.3 Billion¹⁵⁸, while Chinese trade with Iran was worth an estimated \$45 Billion.¹⁵⁹ China seems unlikely to put such investments and trade at serious risk because of a relatively minor partner as Iran.

At the same time, China will probably seek to maintain some ties to Iran and may calculate that it can can avoid conflict and flex its muscle without directly challenging broader American leadership in the Asia-Pacific. ¹⁶⁰

China has also found that it benefits from the fact that China is becoming steadily more important to Iran. As the Iranians have become more isolated from the international community over the last few years, their financial relationship with China has accelerated. China went from

¹⁵⁴ Paul Richter, "West worries China may undermine Iran sanctions efforts," Los Angeles Times, June 28, 2010. http://articles.latimes.com/2010/jun/28/world/la-fg-iran-sanctions-20100628

¹⁵⁵ "China undercuts sanctions on Iran", Barbara Slavin, Politico, June 2, 2011. http://www.politico.com/news/stories/0611/56031.html

¹⁵⁶ "Chinese firms bypass sanctions on Iran, US says", John Pomfret, The Washington Post, October 8, 2010. http://www.washingtonpost.com/wp-dyn/content/article/2010/10/17/AR2010101703723_2.html

 $^{^{157\}text{``}}$ Chinese firms bypass sanctions on Iran, US says", John Pomfret, The Washington Post, October 8, 2010. $\text{http://www.washingtonpost.com/wp-dyn/content/article/2010/10/17/AR2010101703723_2.html}$

¹⁵⁸ http://www.census.gov/foreign-trade/balance/c5700.html

http://www.payvand.com/news/12/apr/1001.html

¹⁶⁰ China-Iran Ties: Assessment and Implications for US Policy", Michael Mazza, AEI Iran Tracker, April 22, 2011. http://www.irantracker.org/analysis/michael-mazza-china-iran-ties-assessment-and-implications-us-policy-april-21-2011#_edn1.

trading roughly \$14 billion a year with Iran in 2006 to becoming their most significant trading partner in 2009, with bilateral transactions totaling \$21.2 billion. Trade between the two countries has since increased to \$45 billion in 2011 and is estimated to increase to \$100 billion by 2016.

The two countries have been increasing their economic cooperation, and Iran has become a lucrative market for Chinese goods and services. According to a report by *The Economist*, China is investing in Iran's infrastructure; and attempting to further integrate the country into the regional market, China has even go so far as to invest \$1 billion for transportation improvements in Tehran.¹⁶²

At the same time, Iran is much more dependent on China than China is on Iran, creating an unbalanced relationship and forcing Iran to refrain from actions that will draw the ire of the Chinese government. Iran has strong incentives to continue to build its relationship with China. The international reputation of China may be damaged by maintaining close relations with Tehran, but there is no such risk for the Iranians. While the ethos of self-reliance has been central to Iranian strategy and rhetoric, there is, in fact, very little downside to accepting Chinese largesse. ¹⁶³ The Chinese can continue to develop Iran's oil fields, provide an enormous market for its oil, supply it with a marginal supply of weapons, and serve as an advocate at the UN Security Council. Iran would prefer to have broader access to other international partners, but given the current sanction regime, it will continue to covet Chinese support.

China imported some 11% of its oil from Iran in 2011, but by early 2012 China had both serious concerns about the cost of continuing such imports in terms of US sanctions, and new incentives for turning to other suppliers in the Gulf. China also realized that it could cut back on its ties to Iran under conditions where Iran had nowhere else to go and would have to turn to China for arms, investment, and imports. And since as sanctions against Iran had left Tehran with no other arms supplier, China could diversify its energy suppliers without the worry of losing Iranian military contracts.

China, in contrast, could reach out to Saudi Arabia and other Southern Gulf states to secure new trade, arms, and energy deals to compensate it for any losses in dealing with Iran. In January 2012, Chinese Premier Wen Jiabao visited Saudi Arabia, Qatar and the United Arab Emirates, on a six-day tour of key Sothern Gulf states. This was the first visit to Saudi Arabia by a Chinese Premier in two decades, and the first to Qatar and the United Arab Emirates.

China took this opportunity to strengthen its energy relationship with those countries by inking a number of business contracts and joint-venture proposals. Sinopec will not only work together with Saudi Aramco on the construction of a new joint oil facility, but they also signed an \$8.5 billion deal to build a new refinery in Yanbu, Saudi Arabia. Sinopec also signed a deal with

¹⁶¹"China-Iran foreign relations", Ariel Farrar-Wellman, AEI Iran Tracker, July 20, 2010. http://www.irantracker.org/foreign-relations/china-iran-foreign-relations

¹⁶² http://www.economist.com/node/21560614

¹⁶³ Michael Eisenstadt, "The Strategic Culture of the Islamic Republic of Iran," MES Monographs No.1, August 2011.

Royal Dutch Shell and Qatar Petroleum International to build a new refinery in Taizhou. ¹⁶⁴ While Beijing still imports a significant amount of oil from Iran; they are seeking to expand their options in order to hedge against possible disruptions. Over time, China's increasing access to non-Iranian crude is likely to coincide with a shrinking export market for Tehran, as sanctions grow tighter and China becomes less reliant on Iranian oil. This will put China in a much more commanding position and may result in Iran losing oil revenue by being forced to offer discounts as it has been doing in its oil transactions with India. This is a situation that the US and its allies would like to encourage, and has some support among Chinese financial institutions who want to preserve access to their US counterparts. ¹⁶⁵

Nevertheless, China has left its position flexible. Chinese foreign ministry spokesperson Liu Weimin stated at a press conference on January 19th, that China firmly opposed any Iranian or other effort to acquire nuclear weapons, but that, "Using sanctions, imposing pressure and threatening one another with force not only do not help solve the problem, but they would lead to further deterioration of the situation." ¹⁶⁶

Russia

Russia's situation is different from China's. Russia is a major energy exporter, and is far less dependent on US trade and economic relations than China is. It also is more willing to openly confront or challenge the US both for foreign policy purposes and for domestic political reasons. As a result, the US and Iran still compete for Russian support on an issue by issue basis and much depends on the broader state of US and Russian relations.

Russia's relationship with Iran offers it the opportunity to consolidate and expand its energy network, export arms and other goods to a sizable market, as well as be able to support a counterweight to US regional influence in the Middle East and Caspian Sea. Policy planners in Moscow, however, also value their growing trade relationship with Israel, the benefits of economic integration with the West, and their relations with the Arab states, and are apprehensive about the prospect of a nuclear-armed Iran. These realities have led to their unpredictable and inconsistent support of the Iranian sanction regime. ¹⁶⁷

While Russia has cast its Security Council vote in favor of each of UN sanction resolutions, it has done so hesitantly and after extracting concessions. Moscow's interest in diluting the sanction resolutions, however, should not be misunderstood as a strong power attempting to protect a client state. Instead, Russia has used these opportunities strategically in order to advance its own national interests. Crucial exemptions were secured in 2006 that allowed Russia

http://iranprimer.usip.org/resource/un-resolutions

¹⁶⁴ Afshin Molavi, "Tehran is Feeling the Squeeze as Beijing Warms up to Riyadh," The National, January 23, 2012. http://www.thenational.ae/thenationalconversation/comment/tehran-is-feeling-the-squeeze-as-beijing-warms-up-to-riyadh

¹⁶⁵ Michael Wines, "Middle East Trip Suggests Change in Policy by China," New York Times, January 13, 2012

¹⁶⁶ Voice of America, January 19, 2012, http://blogs.voanews.com/breaking-news/2012/01/19/china-says-us-sanctions-on-iran-ineffective/.

¹⁶⁷ Mark N. Katz, "Russia and Iran," The Iran Primer, USIP, December, 2010. http://iranprimer.usip.org/resource/iran-and-russia

¹⁶⁸ "The U.N. Resolutions", Jason Starr, The Iran Primer, USIP, December 2010.

to maintain key contracts with Iran and continue to develop the Bushehr nuclear reactor. After securing his concessions from the Security Council, Russian Foreign Minister Sergey Lavrov said that, "The resolution fully reflects economic interests of Russia and other partners of Iran." ¹⁶⁹

Similarly, Russian officials took a hard line against expanding sanctions in 2007 until disagreements over the Bushehr contract brought the two countries into conflict. In the face of soaring construction costs, the Iranians fell behind in their scheduled payments to Moscow.¹⁷⁰ Russian technicians and engineers were called back home, fuel shipments were canceled, and the Russians began to make back-channel ultimatums involving sanctions.¹⁷¹

A senior White House official then commented that "we're not sure what mix of commercial and political motives are at play here, but clearly the Russians and Iranians are getting on each other's nerves." When the Russians cast their vote for expanded sanctions in March of 2007 they were predictably criticized by the Iranians as having given in to Western pressure. It appears clear, though, that their decision was instead meant to provide leverage in their commercial dispute with Iran. This type of strategic positioning has come to define the Russian approach to Iranian sanctions.

Russian and Iranian commercial relationships grew steadily during the last decade despite international sanctions. Iran has become a substantial market for Russian arms, technology, and agriculture – with annual exports exceeding \$3 billion by 2008 (See **Figure V.11**). ¹⁷³ A separate estimate (**Figure V.10**) indicates that Russian exports to Iran totaled \$3,289.1 million in 2010 and imports were \$265.8 million. ¹⁷⁴ While Russia's future policies are unclear, however, Moscow's past acceptance of sanctions is a warning to Tehran that Russian support is far from assured and instead highly contingent upon their immediate priorities.

Iranian leaders recognize that fostering more reliable ties to Russia would effectively limit America's regional hegemony in the Middle East in addition to reducing the likelihood of a military attack by the US or Israel. The opportunism of their alliance, however, continues to make the Iranians uneasy.

¹⁶⁹ Russian Official Hails Iran Sanctions," The Associated Press, December 26, 2006.

¹⁷⁰ RIA Novosti, "Iran Hopes Russia Begins to Supply Fuel for Bushehr NPP in March," June 3, 2007. http://article.wn.com/view/2007/03/06/Iran_hopes_Russia_begins_supplying_fuel_for_Bushehr_NPP_in_M/

¹⁷¹ The Toledo Blade, "Putin Pulls Plug and Deepens Rift with Iran," March 23, 2007.

¹⁷² The Toledo Blade, "Putin Pulls Plug and Deepens Rift with Iran," March 23, 2007

¹⁷³ Mark N. Katz, "Russia and Iran," The Iran Primer, USIP, December, 2010. http://iranprimer.usip.org/resource/iran-and-russia

¹⁷⁴ http://trade.ec.europa.eu/doclib/docs/2006/september/tradoc_113392.pdf

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Figure V.11 Russian Trade with Iran 1995-2008

Year	Exports	Imports
2002		
1995	\$249 Million	\$27 Million
2000	\$633 Million	\$57.6 Million
2005	\$1.9 Billion	\$125 Million
2008	\$3.3 Billion	\$401 Million

(Source: http://iranprimer.usip.org/resource/iran-and-russia)

A further cooling of Russo-Iranian relations took place in 2009, when President Obama sought a diplomatic "reset" and Moscow was confronted with opportunities to achieve major national security goals by leaning further toward the West. The Russians were intent on securing a "grand bargain" that would limit NATO expansion, end the development of the Phased Adaptive Approach Ballistic Missile Defense in Eastern Europe, secure commitments of non-interference, and work toward nuclear parity via a new arms treaty.¹⁷⁵

The United States intentionally linked its approaches to Iran and Russia, seeking Russian support for sanctions and non-proliferation as a key part of its efforts to "reset" US and Russian relations. The Revelations about Iran's secret uranium enrichment facility at Qom helped solidified the rift between Tehran and Moscow. In 2010, Russia voted in favor of the most recent round of UN sanctions and in order to fully comply, President Medvedev issued a decree canceling all sophisticated arms sales to Iran, including the eagerly anticipated S-300 missile defense system. The Iran including the eagerly anticipated S-300 missile defense system.

However, Russia's support of sanctions remained sporadic and determined by Russia's economic and political interests. By early 2011, top Russian officials began to openly question the need for ongoing sanctions and started to challenge western intelligence assessments of Iranian nuclear capacity. This has continued as the US and its allies attempt to add additional sanctions to Iran that will isolate it from Russia's economy. "It was not clear how much this reflects pragmatic policy concerns, a search to gain advantage by supporting Iran, and/or a deterioration in US and

^{175 &}quot;Obama's Diplomatic Offensive and the Reality of Geopolitics," Reva Bhalla, STRATFOR, March 10, 2009

¹⁷⁶ STRATFOR, "Iran, Russia, US: The BMD Link," February 11, 2009

^{177.} Why Russia is Cutting Off Major Arms Sales to Iran," Fred Weir, Christian Science Monitor, September 23, 2010

¹⁷⁸ Mark N. Katz, "Russia Balks at New Pressure on Iran," The Iran Primer Blog, USIP, March 16, 2011 http://iranprimer.usip.org/blog/2011/mar/16/russia-balks-new-pressure-iran

Russian relations. In practice, it probably reflected a combination of all three – although US and Russian relations continued to deteriorate on a broad level in 2012.

In August 2011, Moscow led a seemingly successful effort to lure Iran back into the P5+1 negotiations over their nuclear program, offering to broker a deal that would gradually ease sanctions in exchange for the Islamic Republic meeting transparency targets. ¹⁷⁹ Iran's chief nuclear negotiator, Saeed Jalili, declared that the Russian proposal would be the "basis to start negotiations for regional and international co-operation, specifically in the field of peaceful nuclear activities". ¹⁸⁰ However, the negotiations have not borne fruit and may have collapsed.

Russia did not support the US and EU expansion of sanctions in late 2011. It not only stated that such sanctions would be counterproductive, but warned that they were increasing the prospect of conflict. Russian Foreign Minister Sergey Lavrov stated on January 18, 2012, that the new sanctions had, "...nothing to do with a desire to strengthen the nuclear non-proliferation...It's aimed at stifling the Iranian economy and the population in an apparent hope to provoke discontent." He also warned that the situation risked leading to attacks on Iran that, "The consequences will be extremely grave. It's not going to be an easy walk. It will trigger a chain reaction and I don't know where it will stop." ¹⁸¹

It is again unclear what mix of motives Russia had in taking this position, but the risks of a prolonged confrontation, or a military clash and conflict, cannot be dismissed. What does seem clear is that Russia is likely to continue to use its relationship with Iran in ways designed both to seek its own advantage and to influence US policy toward Russia and US power in the region. Russia, like the US, does not want Iran to acquire nuclear weapons, which would negatively affect Russia's position in the Middle East and their mutually beneficial relationship with Israel. Russia would rather use Iran as a counterweight against US interests in the region, a market for goods, and a gateway to the region than see Iran improve its position by acquiring a nuclear weapon.

Planners in Moscow have become adept at modulating the extent of their Iranian involvement. Accordingly, the US should not be surprised by tension in one area of their relationship is offset by rapprochement in another. While Iran will continue to compete with the United States for a more dependable alliance, the Russians seem content to keep one foot in each camp – playing the two countries off of each other. They will extract concessions in exchange for their support of future UN sanctions resolutions, but will continue to avoid imposing unilateral sanctions or actions. Their policies will reflect a desire to maintain maximum flexibility in expanding their commercial relationship with Iran while avoiding endangering their increasingly valuable ties to the West.

¹⁷⁹ Lauren Gelfand, "Russia proposes incentives for Iran to comply with UN nuclear programme" Jane's Defense Weekly, August 17, 2011

¹⁸⁰ Lauren Gelfand, "Russia proposes incentives for Iran to comply with UN nuclear programme" Jane's Defense Weekly, August 17, 2011

Associated Press, "Russia warns attack on Iran could unleash 'chain reaction,' criticizesfurther sanctions," Updated: Wednesday, January 18, 7:58 AM; CBS News, January 18, 2012, http://www.cbsnews.com/8301-202 162-57360784/russia-warns-against-more-iran-sanctions/.

Turkey

Iran has long had a suspicious and competitive relationship with Turkey. Some Iranians see Ankara's ties to the West, through NATO and the G-20, as threats to Iran's ability to counter western hegemony. Turkey's efforts to expand its role in regional leadership also make them a direct competitor to Tehran.¹⁸² These fundamental dynamics underlie all of Turkish-Iranian relations even if immediate issues appear to be changing actions and rhetoric at the margins.

The victory of Turkey's Justice and Development Party (AKP), in 2002, did, however, usher in a new era of more constructive engagement between the two countries. Turkish commercial ties to Iran have strengthened under Turkish Prime Minister Erdogan. Tehran now supplies a significant amount of Turkey's oil imports and total bilateral trade has grown to over \$16 billion dollars in 2011, and is expected to reach \$35 billion before 2015. In addition, the two countries have previously cooperated over efforts to dismantle the Kurdish terrorist groups based along the Iraqi/Iranian border.

Like Russia and China, Turkey seeks to preserve policy autonomy on Iran. Mehmet Simsek, the finance minister, told the Financial Times that while Turkey supported UN sanctions, they would not shy away from promoting closer trade links with Iran, saying, "We will fully implement UN resolutions but when it comes to individual countries' demands for extra sanctions we do not have to [obey]." This duel game has allowed Turkey to sometimes play the role of mediator. When Iran announced their willingness to return to nuclear talks in January 2012, Turkey volunteered to host – an offer that was quickly accepted by the Iranians. Prime Minister Erdogan also articulated the limits of Turkish support for the US, the EU, France, Germany, and Britain when he accused the "West" of treating Iran unfairly over its nuclear program. Erdogan had tried to downplay the significance of Iran's nuclear program, dismissing international allegations as merely "gossip." 186

However, as the political upheavals in the Arab world continued, the nuclear talks floundered, and Syria has become engulfed in civil war, the Turkish-Iranian relationship has deteriorated. Turkey had been able to tout its "good neighbor" policy before the Arab Spring, but since, it has gone from "from zero problems with neighbors, we shifted to zero neighbors without problems." As Turkey's strategic environment changed, the country had to take a more interventionist push into the region.

The current animosity between Turkey and Iran centers on both the failure of the talks between Iran and the West and due to Iran's increasing intervention in the Syrian Civil War. Turkey views the Syrian situation as a Pandora's Box, empowering the Kurds in the Eastern provinces,

¹⁸² Henri J. Barkey. "Iran and Turkey," The Iran Primer, USIP, December 2010. http://iranprimer.usip.org/resource/iran-and-turkey

 $[\]frac{183}{http://www.hurriyetdailynews.com/iran-turkey-to-boost-trade-volume-further.aspx?pageID=238\&nID=24352\&NewsCatID=344}$

¹⁸⁴ "Turkey throws an economic lifeline to Iran", Roula Khalaf and Delphine Strauss, Financial Times UK, July 26, 2010. http://www.ft.com/intl/cms/s/0/611b301e-97d5-11df-b218-00144feab49a.html?ftcamp=rss#axzz1T53j9m88

¹⁸⁵ The Guardian UK, "Turkish PM Exposes Nuclear Rift in NATO", Robert Tait, October 26, 2009.http://www.guardian.co.uk/world/2009/oct/26/turkey-iran

¹⁸⁶Henri Barkey, "What's Turkey's role in the second round of Iran talks?", The Iran Primer, USIP, January 10, 2011. http://iranprimer.usip.org/blog/2011/jan/10/whats-turkeys-role-second-round-iran-talks

attracting Islamic extremists to the conflict, and creating a refugee crisis within Turkey's borders.

The conflict in Syria has taken on the trappings of a low level proxy conflict, where Turkey views Iran as meddling in their neighbor where the outcome of the current conflict will impact Turkey more than Iran. The Syrian conflict has also empowered the PKK to make a bloody comeback in Eastern Turkey, for which Turkey has blamed Iran and Syria, pushing the two countries into a new "Cold War."

Turkey's position on Iran's nuclear program has also hardened and while Turkey's offer to play mediator between the West and Iran may have originated from sincere hope of solving the problem, it was also a calculated political move intended to consolidate Turkey's position as strong, independent power in the region. Turkey is concerned that if Iran's nuclear program achieves its end goals, there will be widespread proliferation in the Middle East, greatly destabilizing the region. Furthermore, Turkey is split between their acceptance of an Iranian nuclear power generating capability and the demand that Iran be more forthcoming about its program.

So far, Turkey has indicated that it is considering the new round of US and European sanctions, but may not adopt them. Turkey has reason to be cautious: Turkey has obtained a third of its third of its crude oil from Iran during recent years, and Iran supplied 51 percent of Turkey's oil imports during the first half of 2011. This helps explain why the Turkish Foreign Ministry spokesman, Selcuk Unal, told a news conference on January 12th that Turkey would not abide by any unilateral or multilateral sanctions against Iran in spite of efforts by US Vice President Biden and a visit by US Deputy Secretary of State William Burns. It also helps explain why Turkey's energy minister, Taner Yildiz, gave a press conference that same day in which he said that, Turkey was not bound by the new US or EU efforts to reduce Iranian oil exports: "UN sanctions are binding for us...Other decisions are not...At the moment our imports continue and as of today there is no change in our road map." 188

It is not clear, however, that such statements really reflect Turkey's intentions or future policy. Turkish banks had already distanced themselves from Iranian banks as a result of past US sanctions. Tupras, Turkey's main oil refiner, and a company owned by the Koch Holding conglomerate, had renewed its annual contract to buy Iranian crude in December 2012, but Tupras had stopped selling refined oil to Tehran after the passage of new US sanctions in 2010. Moreover, Halkbank, a state-controlled bank, handled Tupras' transactions with Iran. But Halkbank had already declined to do business with Iran on behalf of a refiner in India, despite previously supporting Iranian trade with India. 189

More broadly, Ankara has been careful not to let its foreign policy stray too far from Western norms. Turkish Foreign Minister Ahmet Davutoglu, explicitly stated that it would condemn Iran should they renege on their commitment to the Nuclear Non-Proliferation Treaty. ¹⁹⁰ Turkey also

 $[\]frac{187}{http://www.mepc.org/journal/middle-east-policy-archives/turkey-and-irans-nuclear-program}$

¹⁸⁸ Daniel Dombey," Turkey defiant on Iran sanctions," Financial Times, January 12, 2012.; Turkey defies US over Iran sanctions, PressTV, http://www.presstv.ir/detail/220788.html, January 13, 2012.

¹⁸⁹ Daniel Dombey," Turkey defiant on Iran sanctions," Financial Times, January 12, 2012.

¹⁹⁰ Today's Zaman, "DavutoÂlu Blames Israel for Failure to Mend Ties," December 27, 2010. http://www.todayszaman.com/newsDetail_getNewsById.action?load=detay&newsId=230778&link=230778

made sure to comply, in March of 2011, with the UN by twice forcing the landing of Iranian cargo aircraft. In both cases the aircraft were searched and in one instance weapons were removed that were allegedly bound for Syria.¹⁹¹

Ankara's tilt toward the West was evident in September of 2011 when Turkey opened up negotiations to host a key radar installation as part of the NATO early warning missile shield. This decision elicited predictable recriminations for Iran,¹⁹² and spurred a top Western official to assert that "Turkey is back in the club."¹⁹³ Turkey's eventual decision to host the American radar was particularly relevant because it not only cemented relations with the US, but did so in a way that was zero-sum with Iran. The Obama Administration has overtly described the missile shield as being designed to deter Tehran, and a top White House official highlighted the import of Ankara's move by announcing that "This is probably the biggest strategic decision between the United States and Turkey in the past 15 or 20 years."¹⁹⁴

In short, Turkey maintains an independent foreign policy despite the desires of Washington and Tehran, and sometimes seeks to make both countries compete for its allegiance on an issue-by-issue basis. Ankara will continue to position itself as a growing regional power and seek to extend its commercial and diplomatic ties as well as its broader appeal throughout the Arab world.

However, this does not mean that Turkey will not support efforts to end Iran's nuclear programs and limit its political and military influence in the region. It does mean it is important for US policy makers to understand that the freelance foreign policy in Ankara does not represent any real allegiance to Iran. As has been discussed earlier, Turkey and Iran have become noticeably more antagonistic over the crisis in Syria, and relations continue to deteriorate as the Syria civil war and PKK operations continue. Both countries recognize that they are long-term rivals, and that near-term cooperation is driven by expediency and immediate self-interest. Therefore, the US should expect Turkish compliance with UN sanctions, but anticipate some pushback on other, less important, aspects of its regional agenda.

The BRICS

The BRICS states – comprised of Brazil, Russia, India, China and South Africa – have individually and collectively responded to the tightening of sanctions by the US and EU in late 2011 and early 2012. As a bloc, the group remains divided over the effectiveness of sanctions to curtail Iranian actions and refuse to endorse either the Western or Iranian position.

Meeting in New Delhi in March 2012 to discuss the creation of a BRICS funded development bank, leaders of the five developing nations announced their commitment to Iran's right to

¹⁹¹ Kenneth Katzman, "Iran Sanctions," CRS, June 22, 2011.

¹⁹² Tehran Times, "Iran warns over NATO's radar system in Turkey: Minister." September 7, 2011. http://www.tehrantimes.com/index.php/politics/2267-iran-warns-over-natos-radar-system-in-turkey-minister-

¹⁹³ Today's Zaman. "Turkey reaffirms strong bonds with NATO," Lale Kemal, September 7, 2011. http://www.todayszaman.com/columnist-256054-turkey-reaffirms-strong-bonds-with-nato.html

¹⁹⁴ The New York Times, "U.S. Hails Deal with Turkey on Missile Shield," Thom Shanker, September 15, 2011. http://www.nytimes.com/2011/09/16/world/europe/turkey-accepts-missile-radar-for-nato-defense-against-iran.html?_r=1

"peaceful uses of nuclear energy", but they also stressed that the situation "cannot be allowed to escalate into conflict." ¹⁹⁵

The Effect of Sanctions

Despite past Iranian rhetoric to the contrary, sanctions are now hurting the Iranian economy and their impact will increase steadily over time if they are widened and applied with any consistency. There is no way, however, to be certain of their political and economic effect, or how the economic effects will contribute to what is an escalating process of confrontation between Iran and the US, Europe, Arab Gulf states and other countries and if this confrontation will lead Iran to new forms of political and asymmetric warfare or serious clashes or conflict.

Iran's Problem Economy: Outside Causes versus Self-Inflicted Wound

One problem is that many of Iran's economic problems remain a self-inflicted wound. This makes sanctions far more effective than might other wises be the case. While some experts tend to exaggerate this aspect of Iran's problems, the World Bank provided what seems to be an objective view of the strengths and weakness in Iran's economy in 2010 through the spring of 2012 – estimates made months before the full impact of sanctions began to appear: 196

Iran is the second largest economy in the Middle East and North Africa in terms of GDP - US\$400 billion in 2011 (after Saudi Arabia) and in terms of population - 78 million people (after Egypt). It is characterized by a large hydrocarbon sector, small scale private agriculture and services, and a noticeable state presence in manufacturing and finance. In 2007 the service sector (including Government) contributed 56% to GDP, followed by the hydrocarbon sector with 25 %, and agriculture with 10%. Iran ranks second in the world in natural gas reserves and third in oil reserves. It is the second largest OPEC oil producer; output averaged about 4 million barrels per day in recent years. Iran's chief source of foreign exchange comes from oil and gas. Thus, aggregate GDP and Government revenues are intrinsically volatile, fluctuating with international prices of these commodities. Despite the Oil Stabilization Fund and the newly established development fund in 2011/12, macroeconomic policies so far have typically not counteracted these boom and bust cycles in economic performance which increase the uncertainty faced by the private sector, impeding investment and job creation.

Iran's economy is transforming towards a market-based economy. However, the Iranian state still plays a key role in the economy, owning large public and quasi-public enterprises which partly dominate the manufacturing and commercial sectors. Over 60 percent of the manufacturing sector's output has been produced by state-owned enterprises. The Government envisioned a large privatization program in its 2010-15 five-year plan aiming to privatize some 20% of state-owned firms (SOEs) each year. However, assets of SOEs appear to have been often bought by the Iranian Revolutionary Guards Corps or other semi-governmental enterprises. The financial sector is also dominated by public banks. Moreover, Iran's 2012 Doing Business ranking is in the bottom tiers of the MENA region ranking 144th overall. Only Algeria, Iraq, and Djibouti rank lower among MENA countries. However, the authorities have adopted a comprehensive strategy as reflected in their 20-year Vision document and the 5th Five-Year Development Plan to ensure the implementation of market-based reforms.

Economic growth increased by 3.5 percent in 2009/10 while prudent macroeconomic policies reduced inflation to about 10 percent and ensured a fiscal surplus. The initial impact of the removal of the substantial energy and food subsidies in December 2010 did not suppress Iran's economic performance despite stricter economic sanctions. Nevertheless, growth is projected to decline to 2 percent in 2011 and

¹⁹⁵ http://www.cfr.org/brazil/brics-summit-delhi-declaration/p27805

World Bank, "Iran Overview," accessed October 5, 2012, http://www.worldbank.org/en/country/iran/overview.

to decrease further thereafter, and inflation is expected to increase to around 20 percent in 2011 and 2012 due to the impact of the substantial increase in energy prices. The authority to release inflation statistics has been transferred from the Central Bank to a new agency, the Supreme Council of Statistics, which weakens the credibility of official inflation statistics. The medium term outlook for economic growth is lower due to tougher sanctions and overall declining oil production. Exports of crude oil are expected to decline due to embargoes by the EU and lower demand from China and India after recent payment difficulties due to the US sanctions on the Iranian central bank. Moreover, higher than expected inflation after subsidy removals are projected to depress private consumption. The industry is also likely to struggle to adjust to higher energy prices also due to the sluggish provision of Government assistance which had been earmarked for the sector.

The country's social indicators are relatively high by regional standards. Most human development indicators have improved noticeably based on Government's efforts to increase access to education and health. Virtually all children of the relevant age group were enrolled in primary schools in 2009 and enrollment in secondary schools increased from 66% in 1995 to 84% in 2009. As a result, youth literacy rates increased from 77% to 99% over the same period, rising significantly for girls. Consequently, Iran is well placed to achieve the MDG target with regard to eliminating gender disparities. Over the years, Iranian women have been playing an increasingly important role in the economy, though their market participation and employment rates remain limited. Iran's health outcomes have also improved considerably over the past twenty years. The mortality rate for children under five steadily declined from 65 (per 1,000) in 1990 to 27 in 2009. Similarly, the maternal mortality ratio per 100,000 live births declined from 150 to 30 during the same period. Consequently, health indicators are usually above regional averages. This success is based on the effective delivery of primary health care which almost balanced health care outcomes in rural and urban areas. Iran's new 5th five-year development plan from 2011 to 2015 continues to focus on social policies.

The Government has launched a major reform of its indirect subsidy system, which, if successful would markedly improve the efficiency of expenditures and economic activities. The overall subsidies were estimated to cost 27 percent of GDP in 2007/2008 (approximately US\$77.2 billion). The Government has opted for a direct cash transfer program while substantially increasing the prices of petroleum products, water, electricity, bread and a number of other products. Preliminary estimates suggest that the Government's comprehensive cash transfer program accompanying the ongoing subsidy reform has reduced extreme poverty and income inequality significantly. However, the Government assistance program to the industry, which was supposed to account for 30% of the savings from the subsidy removals, has been slow-moving partly because the cash transfers to consumers appear to have been more costly than planned. It was not until September 2011, that the Government started to fulfill its commitment to producers.

The recently imposed international sanctions between December 2011 and February 2012 have increased the cost of doing business, limited access to foreign direct investments and foreign technologies, and exacerbated international trade and financial transactions. The United Nations Security Council (UNSC) sanctions include a ban on financing and exports related to Iran's nuclear and military programs. In January 2012, the US imposed new sanctions including a ban on any financial institution doing business with Iran's central bank from conducting business in the US. In addition, the EU agreed to impose an embargo on imports of Iranian oil; no new contracts or delivery can be agreed starting July 1st.

The CIA provided what seems to have been a similarly objective critique of some of the key issues in Iran's economy, 197

Iran's economy is marked by statist policies and an inefficient state sector, which create major distortions throughout the system, and reliance on oil, which provides the majority of government revenues. Price

¹⁹⁷ CIA, "Iran," *World Factbook*, accessed October 5, 2012, https://www.cia.gov/library/publications/the-world-factbook/geos/ir.html.

controls, subsidies, and other rigidities weigh down the economy, undermining the potential for private-sector-led growth. Private sector activity is typically limited to small-scale workshops, farming, and services. Significant informal market activity flourishes and corruption is widespread.

Tehran since the early 1990s has recognized the need to reduce these inefficiencies, and in December 2010 the legislature passed President Mahmud AHMADI-NEJAD's Targeted Subsidies Law (TSL) to reduce state subsidies on food and energy. This was the most extensive economic reform since the government implemented gasoline rationing in 2007. Over a five-year period the bill will phase out subsidies that previously cost Tehran \$60-\$100 billion annually and mostly benefited Iran's upper and middle classes.

Cash payouts of \$45 per person to more than 90% of Iranian households mitigated initial widespread resistance to the TSL program, though popular acceptance remains vulnerable to rising inflation. A rise in world oil prices in 2011 increased Iran's oil export revenue by roughly \$28 billion over 2010, easing some of the financial impact of international sanctions. However, expansionary fiscal and monetary policies, government mismanagement, the sanctions, and a depreciating currency are fueling inflation, and GDP growth remains stagnant. Iran also continues to suffer from double-digit unemployment and underemployment. Underemployment among Iran's educated youth has convinced many to seek jobs overseas, resulting in a significant "brain drain."

The Growing Impact of Sanctions

The basic economic data on Iran are notoriously uncertain, and far too much analysis focuses on macroeconomic estimates for the total economy that do not provide any reliable way to estimate the impact of sanctions in any detail. There is no reliable way to measure the GDP in purchasing power parity terms, income distribution, per capita income in real terms, inflation, poverty levels, real and disguised unemployment, and the impact of corruption. There is no reliable way to measure the impact of a corrupt state sector whose spending is distorted by unreported shifts in spending to the military and Islamic Revolutionary Guards Corps, a corrupt religious establishment and its "charitable" Bunyods, spending on "civil" nuclear programs, and the real world allocation of the money the state has spent of subsidies and income supplements.

Yet uncertain as most macro-economic data are, the trends over the past year indicate that sanctions have had a serious effect on the Iranian economy. Unemployment and inflation figures are significantly higher than they were even a year ago before sanctions were instituted and before Iran was cut off from the international banking system, SWIFT. All signs point to an economy under siege, production is down, industry is at a standstill, and there is a massive brain drain, estimated at 200,000 Iranians that try to leave the country annually.¹⁹⁸

Outside estimates of the impact of sanctions remain uncertain and are constantly changing, but they do seem to provide a valid indication that they are now having a growing and major impact. The US Energy Information Agency (EIA) estimated in July 2012 that the growing impact of sanctions was impacting on Iran's ability to produce oil. The EIA announced that it "expects Iran's crude oil production to fall by about 1 million bpd by the end of 2012 relative to an estimated output level of 3.6 million bpd at the end of 2011, and by an additional 200,000 bpd in 2013." Iran has no chance for the foreseeable future of meeting its stated goal of some 5.3 m/bpd of production capacity.

U.S. financial sanctions and EU insurance provisions have also impeded other countries' ability to finance and pay for transactions in Iranian oil, leading to reports that Iran's ability to produce

¹⁹⁸ http://www.payvand.com/news/06/apr/1188.html

oil has outstripped its ability to sell it."¹⁹⁹ Furthermore, Reuters reported in October that only 980 vessels docked in Iranian ports in the first nine months of 2012, this was down from 2,740 in 2011, and 3,407 in 2010.²⁰⁰

The US Treasury announced in September 2012 that it estimated that Iranian oil exports had dropped by 1 million barrels of oil from levels of 2.4 million barrels a day in 2011 – or roughly \$80 billion in currency reserves it had had a year ago.²⁰¹ The Undersecretary of the Treasury, David Cohen, stated that, "This decrease in exports is costing Iran about \$5 billion a month, forcing the Iranian government to cut its budget because of a lack of revenue...Sanctions have effectively terminated international access for most Iranian banks...Today, the Iranian government is relegated to the backwaters of the international financial system, and they know it."²⁰²

It is far too soon to make accurate estimate for a nation with notoriously politicized and inaccurate macroeconomic data, but some of the costs are clear. Iran's currency, long held artificially high by a regime that could afford to subsidize it, has nose-dived since the implementation of more stringent sanctions. It a has lost more than 50% of its value between September 2011 and September 2012 and was trading at around 28,000 Rials to one dollar, down from 13,000 in September 2011. According to some reports, this raised the real rate of annual inflation from the 29% the government claimed to almost 70%. Moreover, the Rial lost nearly 40% more of its value during the first week of October 2012. October 2012.

By October 2012 food prices were rising so quickly that major changes were taking place by the day, and key foods like chicken had become unaffordable for many Iranians. The first public riots about the economy and rising prices took place, and some outside experts estimated Iran had lost half of the \$80 billion in currency reserves it had had in 2011.²⁰⁵ The Economist Intelligence Unit estimated in September that they would cut the Iranian GDP by at least 1.2% in 2012-2013 – a forecast that seemed highly optimistic as the impact of sanctions accelerated later in the fall of 2012.²⁰⁶

 $^{^{199}}$ http://www.upi.com/Business_News/Energy-Resources/2012/07/11/Irans-oil-production-slumps-EIA-says/UPI-75241342016878/#ixzz28Kdmh66R

²⁰⁰ http://www.nytimes.com/2012/10/13/world/middleeast/data-on-iran-dims-outlook-for-economy.html

²⁰¹ Jonathan Spicer, "U.S. says Iran oil exports down dramatically," http://in.reuters.com/article/2012/09/12/usa-sanctions-idINL1E8KCKRX20120912.

²⁰² Jonathan Spicer, "U.S. says Iran oil exports down dramatically," http://in.reuters.com/article/2012/09/12/usa-sanctions-idINL1E8KCKRX20120912.

²⁰³ Thomas Erdbrink, "Iranian currency slides under latest U.S. sanctions," Washington Post, January 2, 2012.

Joby Warwick and James Ball, "Iran's economy may offer opening," *Washington Post*, October 5, 2012, p. A1 and A8: Jay Newton-Small, "The Iranian currency Crisis: Three Possible scenarios," *Time*, October 4, 2012,

http://swampland.time.com/2012/10/04/the-iranian-currency-crisis-three-possible-scenarios/; Thomas Erdbrink, "As Iran Currency Keeps Tumbling, anxiety is Rising," *New York Times*, October 5, 2012, p. A1.

Joby Warwick and James Ball, "Iran's economy may offer opening," *Washington Post*, October 5, 2012, p. A1 and A8: Jay Newton-Small, "The Iranian currency Crisis: Three Possible scenarios," *Time*, October 4, 2012,

http://swampland.time.com/2012/10/04/the-iranian-currency-crisis-three-possible-scenarios/; Thomas Erdbrink, "As Iran Currency Keeps Tumbling, anxiety is Rising," *New York Times*, October 5, 2012, p. A1.

²⁰⁶ EIU. "Iran." September 2012. p. 3.

These problems with the Rial and oil income sharply affected access to food in a country that got some 60% of its finances from oil exports, and where the World Trade Organization estimated imported \$8.2 billion worth of food and \$9.4 billion worth of agricultural products in 2012. ²⁰⁷ It has reduced meat consumption, led to the buying and hoarding of gold and dollars, sharply reduced foreign and domestic investment, strained government revenues, and forced Iran into massive new efforts to use third parties and other nations to disguise its economic activities.

Iran has recently declared that it will cut imports of non-essential goods by dividing imports into 10 categories where importers of essential goods will receive dollars at a subsidized rate.²⁰⁸ Imports of other, non-essential, goods will have to obtain dollars on the open market, which was recently trading at roughly 37,000 Rials to the dollar.

Moreover, Iran may face far more drastic sanctions before the end of 2012. The EU recently instituted another set of sanctions that will hit Iran's oil and gas sector, banking and financial sector, and oil transportation sector to increase pressure on Iran to negotiate on its nuclear program. At the same time, members of Congress have proposed and voted on, new sanctions that could affect every international banking transaction with Iran, international insurance coverage with Iran, and all transitions with Iran's state-owned oil company and its main tanker fleet.²⁰⁹

Iran's View of the Economic Impact of Sanctions

The official Iranian message to the world regarding both sanctions and its nuclear programs has been that Iran is a developing nation being bullied by a country that feels its post-Cold War hegemony waning. Iran has accused the United States and its allies of using globalization as an instrument of Western power and to impose their will on non-Western states – what Ahmadinejad calls "forced globalization." Iran has cultivated an image as the voice of all Muslims in confronting an imperialist United States – "very helpful to Ahmadinejad's desire for greatness in the Arab world."

The degree to which sanctions and other external economic pressures have affected the Iranian economy has been a central – if changing – theme in Iran's rhetoric. Until recently, key members of the Iranian leadership have repeatedly stated in the past that sanctions have no effect on the

²⁰⁷ Thomas Erdbrink, "Iranian currency slides under latest U.S. sanctions," *Washington Post*, January 2, 2012; EIU, "Iran," September 2012, p. 6.

http://www.washingtonpost.com/world/middle_east/iran-says-it-will-cut-imports-of-nonessential-goods/2012/10/14/7291ba34-1640-11e2-a55c-39408fbe6a4b story.html?tid=wp ipad

²⁰⁹ Indira A.R. Lakshmanan, "Iran Sanctions Bid Targets Oil, Tanker Companies to Cut Exports," Bloomberg, Feb 6, 2012 2:26 PM ET; Indira A.R. Lakshmanan, Global Insurers Targeted in Latest U.S. Bid to Expand Sanctions on Iran, Bloomberg, Mar 8, 2012 11:10 AM ET; Al Arabiya, U.S. lawmakers take next step on new Iran sanctions on heels of European embargoes, Tuesday, 31 January 2012;

http://english.alarabiya.net/articles/2012/01/31/191608.htm; AP sources: Congress to seek new sanctions targeting all Iranian banks Associated Press, March 6, 2012, http://www.washingtonpost.com/politics/federal_government/apsources-congress-to-seek-new-sanctions-targeting-all-iranian-banks/2012/03/06/gIQA1p0XvR_print.html.

²¹⁰ Kenneth Katzman, "Iran: U.S. Concerns and Policy Responses," CRS, 9 June 2011, p.54

²¹¹ The New York Times, "US walks out as Iran leader speaks", Neil MacFarquhar, September 23, 2010. http://www.nytimes.com/2010/09/24/world/24nations.html?sq=iran&st=cse&adxnnl=1&scp=33&adxnnlx=1311283 552-mCIoV4UtUt2CQBW78uZNng

country's economy and many statements still make this claim. On October 1, 2012, Speaker of the Iranian Parliament, Ali Larijani, said "The westerners make much hue and cry about sanctions sometimes...but the reality is that a little part of our economic problems is related to the sanctions..."²¹²

In late November 2010, a close confidant and adviser to President Ahmadinejad stated that increased financial restrictions and sanctions had had "no noticeable effect on Iran's economy." Shakour Akbarnejad of the Iranian Parliament's Economic Commission stated that, "history has shown that sanctions have left no negative impact on the Iranian nation's movement and we have, in a word, become accustomed to them."

Some Iranian officials have gone so far as to claim that sanctions have benefitted Iran by engendering technological innovation and self-reliance. The Vice President for Science and Technology downplayed the effectiveness of sanctions, saying:

"The sanctions imposed by the US and Europe have not posed any threat and restrictions to the Iranian researchers; rather all threats have been turned into opportunities to growingly increase the speed of Iran's growth and flourishing in scientific arenas." ²¹⁵

And in a statement the Islamic Revolutionary Guards Corps said that sanction had not affected growth of Iranian defense industries,

"Despite the full scale enmity of the oppression front and the global oppression system against the Iranian nation and the chain of sanctions during the past 33 years (since the victory of the Islamic Revolution in 1979), the field of defense industries has taken advantage of the existing potentials and cradles, as well as the capabilities of its own creative forces, providing the basic requirements and defense needs of the country."

In July 2012, Supreme Leader Khamenei described how sanctions had "vaccinated" the country allowing Iran to make achievements in science and technology,

"These days, the westerners are making hues and cries about sanctions but they do not understand that they themselves have vaccinated the Iranian nation against any sanction with the embargos (that they have imposed) in the last 30 years...In the last three decades, the Iranian nation has stood against all plots and sanctions...and made progress in a way that today we are 100 times stronger than 30 years ago." ²¹⁷

On March 6, 2011, Ahmadinejad made similar allusions to the alleged positive effects of sanctions on Iran's scientific and industrial development, stating that, "the Iranian nation learned to rely on their (own) resources and capabilities [...] and as a result, made great scientific achievements" as a result of sanctions. ²¹⁸

²¹² http://english.farsnews.com/newstext.php?nn=9107110006

²¹³ The Washington Post. "Adviser to Ahmadinejad Says West's Sanction's Have Failed." Erdbrink, Thomas and Serjoie, Kay Armin. November 24, 2010. http://www.washingtonpost.com/wp-dyn/content/article/2010/11/23/AR2010112307004.html

²¹⁴ Fars News Agency, "MP: Iran's Targeted Subsidy Plan defU.S.es Effects of Sanctions," October 30, 2010. http://english.farsnews.com/newstext.php?nn=8908080913

²¹⁵ http://english.farsnews.com/newstext.php?nn=9106060816

²¹⁶ http://english.farsnews.com/newstext.php?nn=9104254693

²¹⁷ http://english.farsnews.com/newstext.php?nn=9103086002

²¹⁸ Mehr News Agency, Western companies circumventing Iran sanctions", March 6, 2011. http://www.mehrnews.com/en/newsdetail.aspx?NewsID=1268563

The debate on the effects and causes of the economic difficulties also played out in the editorial sections of Iranian newspapers, with some blaming the government and some blaming outside powers:²¹⁹

In the past few years, economic decisions have been based on short-term solutions...Despite dramatic changes that altered the economic system, the Central Bank has not yet been able to understand the economic situation...These systems and work methods need to keep up with the changing times before it is too late. – Shargh (A reformist newspaper)

Some government officials try to make up excuses to avoid being accountable for the country's situation...Government should pay attention to reality and refrain from making vague statements that the public does not believe. It is a blunder on the part of the government if it believes that it can do whatever it likes. – Mardom Salari (A centrist newspaper)

Although the economic trends are deteriorating short-term, the government's new economic policies will lead to long-term economic growth over time and with the ability to adapt to the present situation. – Quds (A hardline conservative newspaper)

Our economic problems create empathy, cooperation and coordination between various government branches that are trying to remedy the country's current economic challenges. Although the sanctions cause problems, the opportunity to develop relationships in international banking and investment...can be a substantial part of neutralizing problems from sanctions. – Iran (A centrist conservative newspaper)

The Iranian government has also attempted to manipulate economic data relating to sanctions, and to make charges about the economic policies of other countries as the cause of Iran's economic problems. For example, Dr. Seyed Shamseddin Hosseini, the Minister of Economic Affairs and Finance of the Islamic Republic of Iran and Governor of the Bank for the Islamic Republic of Iran, both attacked the policies of the West and World Bank in a statement on the "Necessity to Rethink the World Bank Behavior" at the annual meeting of the IMF on September 23, 2011, and attempted to describe Iran's economy as a "success":

These meetings are held at a juncture that we still see the negative consequences of the global crisis on the economic and financial environment. The debt of the United States Government has exceeded 14 trillion dollars and the impacts of downgrading US credit rating, as well as low economic growth and its negative prospect, has resulted in severe fluctuations in the money, commodities and capital markets.

The Euro Zone, too, faces three contradictory policy challenges, namely implementation of austerity economic measures, low growth rate, and incapability in repaying its debts and honoring financial obligations.

These problems root from the following:

- 1. The current architecture of the world's economy, due to inconsistency between the financial and the real sectors, creates unavoidable periodical instabilities. Settling this issue requires amending the current financial and monetary models, and shifting toward new models, such as Islamic finance, which are based on the balance between the financial and real sectors of the economy.
- 2. Political instability influences the economic performance. What is now happening in the MENA region, though appears to be political, doubtlessly deepens the global economic crisis, if the

²¹⁹ http://iranprimer.usip.org/blog/2012/sep/24/talk-tehran-squabbling-over-economy

political and military interventions are not avoided.

3. The management of the international monetary and financial institutions has been deviated from its original functions and pursues the political will of some certain shareholders.

Unfair sanctions imposed on countries, such as the Islamic Republic of Iran, and following the will of some certain countries by the World Bank, in drawing up its relations with Iran, is a proof to this point. That the World Bank management, contrary to its Articles of Agreements, avoids approving the Country Assistance Strategy for Iran, and refrains from offering technical assistance to Iran, is another evidence of its deviation.

As the representative of a country that is a founding member of the World Bank, I would like to emphasize on the loyalty of the management of the World Bank to its Articles of Agreement as well as good and corporate governance, instead of biased governance.

Let me briefly inform you of our economic structural and institutional reforms and achievements in recent years: Revising one of the Articles of Constitution improved the role of the private sector, the situation for non-governmental sector and doing business environment. Implementing the economic transformation plan, including targeting subsidies, amending customs, taxation and banking systems, goods and services distribution system as well as currency denomination reform and enhancing productivity are in our agenda.

The achievements of these plans are as per followings:

- 1. The Targeting Subsidy Plan, focusing on amending the energy carrier prices resulted in a 6 percent reduction in energy consumption. This policy reduced electricity consumption by 2 percent, while prior to implementation of the plan, there was an annual rate of growth of 8 percent.
- Amending the flour price, reduced its consumption by 30 percent and prevented smuggling to neighboring countries. The savings strengthened the food security and also listed Iran among the exporters of wheat.
- 3. The revenues of targeting subsidies are redistributed. A cash payment of one and a half dollars a day to 73 million plus Iranian, who have applied for it, led to a sharp fall of Gini Coefficient in Iran.
- 4. The capital market is developed, and privatizing state-owned firms and issuing Sukuk Bond are done through the stock exchange and OTC. These efforts led to 146 percent growth of stock exchange index and 100 percent growth in market value of Tehran Stock Exchange in December 2010, comparing to the end of 2007
- 5. Foreign direct investment to the country during 2009 and 2010 experienced 120 percent growth.
- 6. The growth of non-oil exports in 2009 and 2010 was 24 and 31 percent respectively. ²²⁰

There is no firm way to put such claims in perspective, but Iran's leaders have since been more frank about the impact of sanctions. Toward the end of 2011, there was a change in rhetoric coming out of Tehran. In a speech before Parliament, President Ahmadinejad characterized the most recent international efforts as "the most extensive sanctions ever" and that "this is the heaviest economic onslaught on a nation in history...every day, all our banking and trade activities and our agreements are being monitored and blocked." The true effects of sanctions

²²⁰ IMF, September 23, 2011, http://www.imf.org/external/am/2011/speeches/pr16e.pdf

²²¹The Washington Post, "Iran's Growing State of Desperation," Fareed Zakaria, January 4, 2012. http://thecommongood.net/2012/01/irans-growing-state-of-desperation/

are always opaque, but his rhetorical departure suggests that the renewed international pressure has at least succeeded in forcing a strategic shift by Tehran.

Other individuals within the Iranian government, who have appraised Iran's economic situation more pessimistically, have cautioned their colleagues about the dangers of economic sanctions and criticizing the regime's economic policies. Veteran Iranian politician Akbar Hashemi Rafsanjani said the Islamic Republic was under unprecedented global pressure and that the government was wrong to dismiss the sanctions as no threat to the economy. Mojtaba Vahidi, a former top-level manager who served in Iran's finance and industry ministries for more than 20 years, observed that "the economic crisis [that Iran is] witnessing today is a direct result of the sanctions—and Iranian officials who say otherwise are fooling themselves." 223

Since that time, Iran has mixed denials with a growing degree of realism:

- On October 15th, Supreme Leader Ali Khameni declared that the West could not harm Iran's economy, "With God's grace, as was the case in other issues which the enemies were not able to do anything, they can do no damn thing in their economic confrontation with our people...This is a war against a nation...But the Iranian nation will defeat them."²²⁴
- On October 2nd President Ahmadinejad admitted that oil and banking sanctions have had an impact saying, "One factor is from outside, and one factor is from inside. The enemy has stated that it will impose (more) sanctions, and part of the oil purchases from Iran has decreased, and a considerable segment of our foreign currency revenues was generated through oil sales...What is worse than the oil sanction is the sanctions on banking transactions. If oil is sold, the payment cannot be transferred, and a massive and great secret war (against Iran) is actually underway in the world."²²⁵ However, he blamed physiological pressures rather than government policies for the economic problems, "Are these currency fluctuations because of economic problems? The answer is no...Is this because of government policies? Never ... It's due to psychological pressure. It's a psychological battle."²²⁶
- President Ahmadinejad stated in a September 5, 2012, interview that sanctions constituted a "...all-out, hidden, heavy war" and that sanctions were impeding the economy, "there are barriers in transferring money, there are barriers in selling oil, but we are removing the barriers." 227
- In March, Iran's Supreme Leader Ayatollah Khamenei discussed the possibility for dialogue between Iran and the West saying, "[t]his is good talk and shows and exit from delusion." However even Khamenei's rare conciliatory statement was followed with "But the U.S. president continued saying that he wants to make the Iranian people kneel through sanctions. This part of this speech shows the continuation of illusion in this issue." 228
- In February 2012, Iranian President Mahmoud Ahmadinejad said before Parliament that the current sanctions regime was "the heaviest economic onslaught on a nation in history".

Reuters, "Iran's Rafsanjani chides Ahmadinejad over sanctions", September 14, 2010. http://af.reuters.com/article/energyOilNews/idAFLDE68D06L20100914?sp=true

²²³ The Wall Street Journal, "Iran's Economy Feels Sting of Sanctions," Fassihi, Farnaz, October 12, 2010. http://online.wsj.com/article/SB10001424052748703735804575535920875779114.html

http://www.google.com/hostednews/afp/article/ALeqM5iM-IjGUz6UP3aoMlfrKdjxG2lq4A?docId=CNG.c36ac90c578becd9b22b3b70fe27a38e.741

²²⁵ http://www.tehrantimes.com/politics/102022-iran-will-overcome-economic-problems-ahmadinejad

²²⁶ http://www.guardian.co.uk/world/2012/oct/02/ahmadineiad-iran-currency-psychological-war?newsfeed=true

http://english.farsnews.com/newstext.php?nn=9106061782

²²⁸ "Iran's Ayatollah Khamenei Gives Rare — If Brief — Praise For U.S.", Eyder Peralta, NPR, March 8, 2012.

- On January 24, 2012, Mohsen Qamsari of the National Iranian Oil Company declared to the Mehr News Agency that, "Iran can readily find new customers for its oil. We have no problem in selling oil."
- However, two days prior, on January 26, the former Iranian Oil Ministry deputy, Mehdi Hosseini, admitted that, "Losing the European oil market will have an impact on Iran's economy which needs rational planning by the authorities. Selling oil at sub-market level prices is not a good way to counter the oil embargo."
- On February 17, 2012, Iran's senior nuclear negotiator, Saeed Jalili, declared his country's "readiness for dialogue" at "the earliest possibility".
- Furthermore, Iran has issued serious threats to "close the Gulf' and has carried out missile tests and military maneuvers. Iran's threats and exercises have also been followed by announcements that it is creating a new, far better sheltered underground uranium enrichment facility and is deploying improved centrifuges.

It is still unclear how much the impact of the new sanctions will affect the Iranian people and their attitudes towards the regime and the states that impose such sanctions. Iran also faces many other long-standing economic problems, including major barriers to efficient investment, massive youth unemployment, and inflationary cycles. It must also deal with an uncertain and painful transition out of government-funded subsidies. It is clear from Iranian media; however, the people are as aware as the government that sanctions are having a steadily more significant effect on Iran's ability to interact with international financial institutions and increased the diplomatic costs for Tehran's trading partners.

The already have been protests against government mismanagement of the economy and the dwindling value of the Rial. Protests erupted on October 3rd at the Grand Bazaar in Tehran when police attempted to shut down black-market money changers.²²⁹ Protesters were reportedly shouting anti-government slogans and joined by merchants who then marched towards the Iranian Central Bank.²³⁰ Whether or not these protests have any real staying power is yet to be seen.

Moreover, Iran did offer a new plan to end the nuclear confrontation in early October 2012. ²³¹ The plan was still largely a rehash of past negotiating proposals that called for early dismantling of the sanctions, and a slow dismantling of the key enrichment sites like Fordow in ways that could allow Iran to move its enriched stocks and send them to other concealed centrifuge facilities or store them for a future breakout attempt. Iran could easily have calculated that the end result would be to dismantle the sanctions effort in ways the US and EU could not rebuild, and simply be a variant on Iran's past "negotiate and proceed" tactics. It was, however, at least a sign that sanctions might drive Khamenei to accept a serious agreement. ²³²

There are also indicators the Supreme Leader is using the once-powerful president as a scapegoat for the country's economic problems in the wake of the March Iranian parliamentary elections and the increasing tensions between President Ahmadinejad and Supreme Leader Khamenei,. The Supreme Leader's allies in the judiciary and legislature have been attacking the President,

 $[\]frac{229}{\text{http://www.nytimes.com/}2012/10/04/\text{world/middleeast/clashes-reported-in-tehran-as-riot-police-target-money-changers.html?hp}$

²³⁰ http://www.bbc.co.uk/news/world-middle-east-19812482

²³¹ David E. Sanger, "Iranians Offer Plan to End Nuclear Crisis," *New York Times*, October 5, 2012, p. A6.

David E. Sanger, "Iranians Offer Plan to End Nuclear Crisis," New York Times, October 5, 2012, p. A6.

accusing him of "the most severe corruption since the 1979 revolution" and blaming him for economic mismanagement, which has resulted in rising inflation and unemployment and an unprecedented collapse of the Iranian currency…"²³³

Iran's Limited Oil Export Income and Export Vulnerability

Iran's economic vulnerabilities are compounded by the fact that its oil revenues have propped up much of the Iranian economy in the past, but have always been limited compared to total national requirements. **Figure V.12** provides additional data that show that Iran's oil revenues are not high in per capita terms, and are only a fraction of the per capita oil earnings of Qatar, Kuwait, and the UAE. To put such data in context, even before the new rounds of sanction in late 2011, the CIA estimated that Iran's per capita income ranked only 101^{st} in the world while a neighbor like Qatar ranked 1^{st} and the UAE ranked 10^{th} even before the new round of sanctions.²³⁴

This mix of economic weaknesses and vulnerabilities potentially makes the Iranian threats to "close the Strait" described in earlier chapters (and repeated in late 2011, early 2012, and continuing through the summer) a contingency that would be more damaging to Iran than to any of the Southern Gulf exporting states. Iran's economy is not sufficiently diversified to withstand a major loss in oil revenue that would go along with a complete halt of oil traffic through the Strait since Iran's economy has long been marginal in meeting the needs of its people even when oil moves freely through the shipping lanes.

The Iranian government cannot support its people without imports of food, fuel, gasoline, and spare parts, a large portion of which it obtains through sea transportation due to its limited overland connections to its neighbors. Iran cannot maintain or expand its energy exports if it is at war or outside states refuse to deal with it, and the situation is becoming steadily more difficult for Iran even without a crisis in the Gulf or Strait of Hormuz that would cause a major cut in oil traffic.

Figure V.12: Comparative Iranian and Other OPEC Oil Income

OPEC Net Oil Export Revenues

²³³ Mehdi Khalaji, "Is A Ahmadinejad the Scapegoat for Iran's Economy?," *Al-Monitor*, October 4, 2012

²³⁴ CIA World Factbook, 2012, https://www.cia.gov/library/publications/the-world-factbook/geos/ir.html, accessed January 6, 2012.

Country	Nominal (Billion \$)				Real (Billion 2005\$)			
Country	2011	2012	2013	Jan-Apr 2012	2011	2012	2013	Jan-Apr 2012
Algeria	\$63			\$22	\$54			\$19
Angola	\$68			\$25	\$58			\$21
Ecuador	\$10			\$4	\$9			\$3
Iran	\$95			\$29	\$81			\$24
Iraq	\$71			\$26	\$61			\$22
Kuwait	\$85			\$33	\$72			\$28
Libya	\$13			\$15	\$11			\$13
Nigeria	\$90			\$32	\$77			\$27
Qatar	\$57			\$21	\$49			\$17
Saudi Arabia	\$311			\$117	\$265			\$99
UAE	\$101			\$35	\$86			\$29
Venezuela	\$60			\$21	\$51			\$18
OPEC	\$1,026	\$1,154	\$1,117	\$381	\$875	\$962	\$917	\$320

OPEC Per Capita Net Oil Export Revenues

Country	Nominal (\$)				Real (2005\$)			
Country	2011	2012	2013	Jan-Apr 2012	2011	2012	2013	Jan-Apr 2012
Algeria	\$1,811			\$632	\$1,545			\$531
Angola	\$5,106			\$1,858	\$4,356			\$1,560
Ecuador	\$711			\$243	\$607			\$204
Iran	\$1,409			\$424	\$1,203			\$356
Iraq	\$2,341			\$856	\$1,998			\$718
Kuwait	\$29,292			\$11,133	\$24,991			\$9,343
Libya	\$1,978			\$2,322	\$1,700			\$1,948
Nigeria	\$608			\$214	\$519			\$180
Qatar	\$57,641			\$20,597	\$49,185			\$17,285
Saudi Arabia	\$10,465			\$3,908	\$8,929			\$3,280
UAE	\$19,683			\$6,598	\$16,792			\$5,538
Venezuela	\$2,176			\$764	\$1,857			\$642
OPEC	\$2,683	\$2,964	\$2,816	\$984	\$2,289	\$2,470	\$2,312	\$826

Source: Adapted form http://www.eia.gov/cabs/OPEC_Revenues/Factsheet.html

Foreign Companies Exiting the Iran Market

One additional effect of the current sanctions regime is it pushes foreign companies out of the Iranian economy. While none of the existing sanctions ban all trade with Iran (even US sanctions allow for food and medical products), sanctions have made it exceedingly difficult to do business in the country has led to an exodus of foreign companies from Iran. **Figure V.13** shows that some companies all over the world decided to do business elsewhere.

According to Treasury and State Department officials, at least 80 major banks had committed not to finance exports to Iran or to process dollar transactions for Iranian banks. Among those that have pulled out of Iran are Credit Suisse and UBS (Switzerland), HSBC and Barclays (Britain), Commerzbank, Dresdner Bank, BNP Paribas, and Deutsche Bank (Germany), Société Générale and Le Crédit Lyonnais (France) and even the National *Bank* of Fujairah, based in Dubai. This is only some of the evidence that sanctions are having a significant impact on Iran's economy, although not necessarily on its nuclear program. Given this exodus, Iran has had to scramble to find alternative ways to import food, refilled gasoline, and other critical supplies – precisely the effect that US officials have been hoping for. However, US politicians and outside experts expressed concern in mid-2011 that Asian firms, from China in particular, as well as from Malaysia, Vietnam, and countries in Eastern Europe, were "backfilling", or moving in to fill the void left by vacating European firms.

Chinese firms have been picking up the slack left by exiting European nations, allowing it to create a foothold in the Iranian marketplace. In May 2011, China and Iran signed a \$20 billion mining and industrial investment agreement. ²³⁹ China is also a major player in Iran's petroleum sector. In July 2012, China signed a \$20 billion deal to develop the Azadegan and Yadavaran fields with an end goal of 700,000 bpd, and has shown an interest in developing Iran's heavy oil fields. ²⁴⁰ China however, has reportedly "gone slow" with new contracts or has not yet implemented agreements. It is not clear whether this is official policy stemming from Beijing or if Chinese companies are trying to reduce their risk in light of increased sanctions and tensions. ²⁴¹

There was evidence that some Japanese and European companies walked away from lucrative contracts and projects in Iran and feared losing out to their competitors who may be anxious to step in.²⁴² Yet, most of the potential backfilling companies were perceived as not being as

²³⁵Rachel L. Loeffler, "Bank Shots," Foreign Affairs, April 2009. http://www.foreignaffairs.com/articles/64822/rachel-l-loeffler/bank-shots

²³⁶Rachel L. Loeffler, "Bank Shots," Foreign Affairs, April 2009. http://www.foreignaffairs.com/articles/64822/rachel-l-loeffler/bank-shots

²³⁷The Washington Post, "In Iran, sanctions aim at shipping lifeline", Thomas Erdbrink, June 30, 2011. http://www.washingtonpost.com/world/national-security/in-iran-sanctions-aim-at-shippinglifeline/2011/07/08/gIQAyJgw7H_story.html

²³⁹ Scott Harold, "China and Iran: Economic, Political, and Military Relations, RAND, July 27, 2012. Pg. 11

²⁴⁰ http://www.presstv.ir/detail/2012/07/08/249976/china-to-invest-usd-20-bn-in-iran-oil-fields/

²⁴¹ Scott Harold, "China and Iran: Economic, Political, and Military Relations, RAND, July 27, 2012, Pg. 12

²⁴² The Washington Post, "Chinese firms bypass sanctions on Iran, US says", John Pomfret, October 18, 2010. http://www.washingtonpost.com/wp-dyn/content/article/2010/10/17/AR2010101703723.html

technically capable as those that withdrew from Iran.²⁴³ In fact, many experts believe that, over time, the efficiency and output of Iran's economy would decline as foreign expertise departs and Iran is forced to work with less capable foreign companies.²⁴⁴ The impact of new and much stricter sanctions will almost certainly make this worse.

²⁴³ Kenneth Katzman, "Iran Sanctions," CRS, June 22, 2011.

²⁴⁴ Kenneth Katzman, "Iran Sanctions," CRS, June 22, 2011.

Figure V.13 Major Non-Petrol Related Foreign Companies Halting Business in Iran, 2010-2011

	2011	
Country	Company	Field
China (Hong Kong)	NYK	Shipping
Denmark	Maersk	Shipping
Germany	Siemens	Telecommunications
	Thyssen-Krupp	Steel
	Daimler	Automotive
	Munich Re	Insurance
	Allianz	Insurance
	Hannover Re	Insurance
Italy	Finemeccanica	Defense/Transportation
Ireland	Ingersoll-Rand Plc	Manufacturing
Japan	Toyota	Automotive
South Korea	Kia	Automotive
	Hyundai	Automotive
Switzerland	ABB	Engineering
United Kingdom	Lloyds	Insurance
United States	Caterpillar	Construction/Mining
	Huntsman Corp	Chemical Manufacturing
	KPMG	Accounting
	PricewaterhouseCoopers	Accounting
	Ernst & Young	Accounting
France	Peugeot	Automotive
	BNP Paribas ²⁴⁵	Banking/Financial Management
Finland	Nokia	Telecommunications
India	Tata Group	Communications/Steel/Services

Sources:

Kenneth Katzman, "Iran Sanctions," CRS, 22 June 2011, p. 55

 $http://www.washingtonpost.com/world/national-security/in-iran-sanctions-aim-at-shipping-lifeline/2011/07/08/gIQAyJgw7H_story.html~http://www.state.gov/r/pa/prs/ps/2011/05/164131.htm~http://www.foxbusiness.com/markets/markets/2010/10/01/factbox-foreign-companies-stepping-away-iran/$

 $^{^{245}}$ Note: BNP Paribas has indicated that they will not pursue new business in Iran but will fulfill existing obligations

Outside Views of the Overall Economic Impact of Sanctions

There are no reliable data as yet that can portray the full impact of the new energy and banking sanctions that the US and EU have implemented over the past two years. The data on Iran in the World Bank web pages on Iran are often dated and many go back to 2009 and 2010. They do reflect real progress in many human development indicators, including the rather ironic fact that twice as many women now graduate from university in Iran as men. The World Bank also states, however, that:

Economic growth increased by 3.5 percent in 2009/10 while prudent macroeconomic policies reduced inflation to about 10 percent and ensured a fiscal surplus. The initial impact of the removal of the substantial energy and food subsidies in December 2010 did not suppress Iran's economic performance despite stricter economic sanctions. Nevertheless, growth is projected to decline to 2 percent in 2011 and to decrease further thereafter, and inflation is expected to increase to around 20 percent in 2011 and 2012 due to the impact of the substantial increase in energy prices. The authority to release inflation statistics has been transferred from the Central Bank to a new agency, the Supreme Council of Statistics, which weakens the credibility of official inflation statistics.

The medium term outlook for economic growth is lower due to tougher sanctions and overall declining oil production. Exports of crude oil are expected to decline due to embargoes by the EU and lower demand from China and India after recent payment difficulties due to the US sanctions on the Iranian central bank. Moreover, higher than expected inflation after subsidy removals are projected to depress private consumption. The industry is also likely to struggle to adjust to higher energy prices also due to the sluggish provision of Government assistance which had been earmarked for the sector.

The recently imposed international sanctions between December 2011 and February 2012 have increased the cost of doing business, limited access to foreign direct investments and foreign technologies, and exacerbated international trade and financial transactions. The United Nations Security Council (UNSC) sanctions include a ban on financing and exports related to Iran's nuclear and military programs. In January 2012, the US imposed new sanctions including a ban on any financial institution doing business with Iran's central bank from conducting business in the US. In addition, the EU agreed to impose an embargo on imports of Iranian oil; no new contracts or delivery can be agreed starting July 1st. ²⁴⁷

The updated World Bank Economic Outlook for 2012 includes some details on Iran's economic situation:²⁴⁸

- Growth in the MENA region was below trend in 2011, primarily because of country-specific factors.
 Among oil exporters, strong oil prices contributed to growth of 4 percent in 2011, which was held down by lower outcomes in the Islamic Republic of Iran related to a poor harvest and the effect of the subsidy reform.
- Among oil exporters, negative developments in the Islamic Republic of Iran are projected to be offset by increased oil production in Iraq and Saudi Arabia and a bounce back in Libya.

The data on the IMF web page does include past estimates and future projections through 2012, 2013, and 2017. According to the IMF, Iran only had a 3.5% real GDP growth in 2010 and a drop to 2.0% growth in 2011 in spite of high oil prices and export revenues. The IMF projects a

²⁴⁶The economic overview ends in 2009. See "Iran, Islamic Rep. at a Glance," http://devdata.worldbank.org/AAG/irn aag.pdf.

²⁴⁷ IMF, http://www.worldbank.org/en/country/iran/overview

²⁴⁸ IMF, World Economic Outlook 2012, http://www.imf.org/external/pubs/ft/weo/2012/01/pdf/text.pdf,

further drop in growth to 0.4% in 2012, 1.3% in 2013, and only a 2.0% increase in 2017. Furthermore, the IMF reported a 21.3% annual rise in consumer prices in 2011 – a near doubling over the 2010 rate and enough to seriously erode the value of incomes' and savings', the ability to pay for imports, and potentially to fund key aspects of life such as marriage, housing, educational expenses, and business expansion and investment.²⁴⁹ The World Bank estimates an average inflation rate of 22.1% during 1993-2002 and rates ranging from 25.4% to 12.4% during 2003-2010.²⁵⁰

The CIA World Factbook does provide more detail on the aspects of the Iranian economy that help reflect the potential impact of steadily tighter sanctions. It notes that Iran is a highly populated country with a total population of some 78 million, a growth rate of 1.25%, and a median age of only 27.4 (24% of the population is 14 years of age or younger). It not only estimates urbanization at 71%, it makes estimates by city that show how critically dependent the most advanced elements of the population are on the market economy: Tehran (capital) 7.19 million; Mashhad 2.592 million; Esfahan 1.704 million; Karaj 1.531 million; Tabriz 1.459 million (2009).²⁵¹

The CIA summarizes the state of the Iranian economy before the imposition of the new US and EU sanctions as follows:

Iran's economy is marked by statist policies and an inefficient state sector, which create major distortions throughout the system, and reliance on oil, which provides the majority of government revenues. Price controls, subsidies, and other rigidities weigh down the economy, undermining the potential for privatesector-led growth. Private sector activity is typically limited to small-scale workshops, farming, and services. Significant informal market activity flourishes and corruption is widespread. Tehran since the early 1990s has recognized the need to reduce these inefficiencies, and in December 2010 the legislature passed President Mahmud AHMADI-NEJAD's Targeted Subsidies Law (TSL) to reduce state subsidies on food and energy. This was the most extensive economic reform since the government implemented gasoline rationing in 2007. Over a five-year period the bill will phase out subsidies that previously cost Tehran \$60-\$100 billion annually and mostly benefited Iran's upper and middle classes. Cash payouts of \$45 per person to more than 90% of Iranian households mitigated initial widespread resistance to the TSL program, though popular acceptance remains vulnerable to rising inflation. A rise in world oil prices in 2011 increased Iran's oil export revenue by roughly \$28 billion over 2010, easing some of the financial impact of international sanctions. However, expansionary fiscal and monetary policies, government mismanagement, the sanctions, and a depreciating currency are fueling inflation, and GDP growth remains stagnant. Iran also continues to suffer from double-digit unemployment and underemployment. Underemployment among Iran's educated youth has convinced many to seek jobs overseas, resulting in a significant "brain drain." ²⁵²

Differences over how to estimate the Iranian GDP data provide a warning about the uncertainty in almost every aspect of the data available on Iran and a partial explanation of why experts differ. The CIA estimates the GDP at \$1 trillion in 2011 in purchasing power parity (PPP) terms

²⁴⁹ IMF, January 18, 2011, http://www.imf.org/external/country/irn/index.htm.

²⁵⁰ IMF, World Economic Outlook 2011, http://www.imf.org/external/pubs/ft/weo/2011/02/pdf/text.pdf, pp. 184, 190.

²⁵¹ CIA, World Factbook, accessed 21 September 2012, https://www.cia.gov/library/publications/the-world-factbook/geos/ir.html .

²⁵² CIA, World Factbook, accessed 21 September 2012. https://www.cia.gov/library/publications/the-world-factbook/geos/ir.html

but only \$482.4 billion in market terms at the official exchange rate – 48% of the PPP total. The CIA also only estimates real growth at 2% in 2011 – roughly equal with IMF and World Bank data and only slightly greater than the population growth rate at 1.247%. It estimates industrial production as dropping by 2.7% in 2011, and it may drop more as sanctions continue to hit the Iranian economy. It estimates a per capita income of \$13,200 in 2011 in ppp terms, which tends to sharply exaggerate the actual income of Iranians, ranks only 94th in the world and is a fraction of the per capita income of the Arab states in the Southern Gulf. ²⁵³

The poverty level data go back to 2007 and was 18.7%. More meaningfully, the total unemployment estimate for 2011 was 15.3%. It estimates youth unemployment in the 15-24 years of age category was 20.2% - 23% for males and 34% for women, and at least 715,000 more men and 677,000 more women reached the age where they should enter the labor force in 2010. ²⁵⁴

Such estimates are extremely uncertain in an economy where disguised unemployment (jobs which have no productivity gain) is common, but they are a warning of how fragile much of the economy is. Moreover, Iran's more developed sectors are typical of the rentier character of nations dependent on energy export income and the services sector accounts for some 45% of the labor force and 47.9% of the GDP. Moreover, Iran is heavily dependent on imports (\$76.1 billion in 2011) – not only of refined hydrocarbon products but key goods like industrial supplies, capital goods, foodstuffs and other consumer goods, and technical services.²⁵⁵

It should be stressed that all of these data reflect the status of a troubled and vulnerable economy before the new round of sanction began to have an impact, but that any estimate of the impact of sanctions is based on data that are so weak and unreliable that they at most can be quantitative opinions.

Other Views of the Impact of Sanctions

It is also important to note that some sources describe less serious impacts. An IMF statement issued on June 13, 2011 did question how much impact international sanctions were then harming Iran's economy. The statement was based on a May 28 to June 9 visit, and indicated that Iran's GDP was growing at a rate of about 3.5%, and that the government had brought inflation down from 25% in 2008 to about 12% in 2010/2011. The IMF also credited the government's privatization program with positive economic effects.

Hassan Hakimian, an economic expert and director of the Middle East Institute at the London School of Oriental and African Studies (SOAS) argued, however, that, "the IMF is on the optimistic side and comes across as rather rash in its judgment. Most independent observers believe that it's too soon to draw such conclusions" Additionally, Hakimian noted, official data about Iran's economy such as inflation and unemployment rates are often disputed both internally

²⁵³ CIA, World Factbook, accessed 21 September 2012, https://www.cia.gov/library/publications/the-world-factbook/geos/ir.html .

²⁵⁴ CIA, World Factbook, accessed 18 January 2012, https://www.cia.gov/library/publications/the-world-factbook/geos/ir.html .

²⁵⁵ CIA, World Factbook, accessed 18 January 2012, https://www.cia.gov/library/publications/the-world-factbook/geos/ir.html

and externally.²⁵⁶ He seems to have been proved correct. The newer IMF data quoted earlier are substantially less favorable for Iran than the June report.

Similarly, polls indicated that Iranians still seemed to have faith in their economy before the new round of sanctions in late 2011. Tehran's stock market had seen a huge increase in trade, and there was no clear sign of a significant capital flight.²⁵⁷ Also, Iran had sizable hard-currency reserves to absorb shocks, and the isolation of its banking sector helped to protect the country from the worst of the global financial crisis.²⁵⁸ Many then believed that the economic effects of international sanctions may be able to be tolerated by the regime as long as world oil prices remain high, at nearly \$100 per barrel in June 2011.²⁵⁹

It is also difficult to predict the political impact of the new sanctions. Reza Marashi, a former Iran Desk Officer at the US Department of State argued in 2011 that the negative effects of existing sanctions had been serious, but had not affected the regime as much as might be expected:

Sanctions exacerbate this dependence on the government. By raising the costs of doing business in Iran, sanctions slow economic development and decrease employment options for the middle class. When fewer companies invest in Iran, there are fewer jobs for skilled middle-class workers; fewer opportunities to develop professional skills; and less socially conscious investments while the government prioritizes differently to combat foreign pressure. Alternative options for Iran's middle class are increasingly narrow: unemployment, emigration, or becoming state employees. As a result, many middle-class Iranians not employed by the government live on unsustainable sources of income such as second jobs and remittances from family abroad. Survival for the middle class is at best unstable, and the conservative factions in power prefer to keep it that way - a struggling middle class focused on making ends meet is easier to control.

Sanctions have in fact strengthened the hand of conservative factions that increasingly disregard economic reforms from the 1990's and early 2000's. Instead, they have favored economic populism and tighter government control of resources. This allows Iranian hardliners to kill two birds with one stone: reallocating resources to lower-class Iranians in an effort to expand their political base, while squeezing middle-class Iranians that are the backbone of Iran's pro-democracy movement. Together, these policies increase the percentage of the population beholden to the state for its livelihood. With no compelling alternative in sight, Iranians are less likely to revolt and bite the proverbial hand that feeds them.

Again, data either way risks either being too optimistic about the impact of sanctions, or too beholden to official Iranian reports that are most likely altered to look as Iran's economy is better than it really is.

²⁵⁶The Guardian UK, "IMF report on Iran's economic success draws skepticism", Saeed Kamali Dehghan, June 17, 2011. http://www.guardian.co.uk/world/2011/jun/17/imf-report-iran-economic-success

²⁵⁷ The Washington Post, "Sanctions begin to compound Iran's severe economic problems", Thomas Erdbrink, October 5, 2010. http://www.washingtonpost.com/wp-dyn/content/article/2010/10/05/AR2010100505972.html

²⁵⁸ The Wall Street Journal, "Iran's Economy Feels Sting of Sanctions," Fassihi, Farnaz, October 12, 2010. http://online.wsj.com/article/SB10001424052748703735804575535920875779114.html

²⁶⁰ Reza Marashi, "The Iran Sanctions Fallacy," Al Jazeera, August 26, 2011. http://english.aljazeera.net/indepth/opinion/2011/08/20118238150723914.html

Sanctions and Energy Competition

All of the preceding analysis has helped to show the extent to which Iranian natural energy resources have become an area of competition between the US and Iran. Iran's oil and natural gas reserves rank among the largest in the world – third in global proven conventional oil deposits, second in natural gas deposits, and fourth in production of crude oil.²⁶¹ Regardless of sanctions, no outside power can easily ignore the potential value of energy deals with Iran, although both Iran's politics and sanctions present serious risks.

Iran Needs Outside Investment At Least As Much as the World Needs Iranian Petroleum and Gas

At the same time, it is clear that Iran needs outside investment and technology at least as much as outside powers need Iranian oil and gas. As has been discussed earlier, Iranian petroleum exports are a key part of Iran's national economy and its government's revenue. Oil export revenues account for more than 20% of their Gross Domestic Product, roughly 80% of Iran's foreign-currency earnings, and more than 60%-70% of its budgetary revenue. 262, 263 Iran's energy sector represents such a large share of the Iranian economy that it is as much a vulnerability as a strength.

This presents a set of different challenges and opportunities for the United States and Iran. Competition in this sector primarily plays out with the United States and its allies attempting to expand their unilateral sanctions while Iran attempts to avoid their enforcement.

Iran has responded both through military threats and by attempting to circumvent the sanctions. Iranian senior officials and officers have threatened to close the Strait of Hormuz to international shipping if sanctions continue or Iran is attacked, warning explicitly that Iran can and will block the straits in response to "any act of aggression or adventure." It is unclear how the Iranians would block off the Strait to oil traffic but it is assumed that small boat tactics, land base antiship missiles and mines will make up a large part of that strategy. The Iranians have stockpiled various types of naval mines over the years but their deployment systems, types, and numbers are still up for debate. Some estimate that Iran has some 5,000-20,000 mines and can deploy them with military, commercial, and civilian vessels. These include both traditional floating mines and more advanced captor and moored contact mines. However, such a move would harm

ring.foreignpolicy.com/posts/2012/09/20/underwater rpgs floating garbage shazam and other reasons why the us navy is so wor

²⁶¹ "Firms Reported in Open Sources as Having Commercial Activity in Iran's Oil, Gas, and Petrochemical Sectors," Government Accountability Office, March 23, 2010, http://www.gao.gov/products/GAO-10-515R

²⁶² Katzman, Kenneth, "Iran Sanctions." Congressional Research Service. September 13 2012. http://www.fas.org/sgp/crs/mideast/RS20871.pdf;

²⁶³ Economist Intelligence Unit - Iran Data, The Economist, October 2010

²⁶⁴ Fars News, "Senior MP: Iran Capable of Blocking the Strait of Hormuz," April 26, 2010, http://english.farsnews.com/newstext.php?nn=8902061586. See also Tehran Times, "Sayyari: Iran Powerful enough to Close the Hormuz Strait," November 30, 2008, http://www.tehrantimes.com/Index_view. asp?code=183642; and "IRGC Official: Persian Gulf Security is for All or None," IRNA, August 1, 2010, http://www.globalsecurity.org/wmd/library/news/iran/2010/iran-100801-irna01.htm.

²⁶⁵ http://e-

Iran more than the US or its neighbors by preventing Iranian oil exports and endangering their relations with all countries who transport cargo through the area.

Effect of Sanctions on Iran's Energy Sector

There are indications that existing sanctions had caused substantial injury to the energy sector even before the US and EU imposed far stronger sanctions in late 2011 and early 2012. State Department Special Advisor Robert Einhorn testified on July 29, 2010, that about \$50 billion of investment in Iran's energy sector had been deterred by sanctions and other forms of pressure. Some US officials have put the figure closer to \$60 billion in lost investment. Description of the energy sector had been deterred by sanctions and other forms of pressure. Some US officials have put the figure closer to \$60 billion in lost investment.

Multiple companies have been sanctioned under the 2010 Comprehensive Iran Sanctions, Accountability and Divestment Act, the most far-reaching sanctions implemented since the 1979 revolution.²⁶⁸ As a result of these sanctions, several major energy firms have pulled out of some of Iranian projects, declined to make further commitments, or resold their investments to other companies (See **Figure V.14**). Observers have reported little new investment in Iranian energy fields, with the absence of development particularly damaging at the massive South Pars gas field.²⁶⁹

Possibly as a result of foreign companies ending business and investment, Iran's oil production fell to about 3.8 million barrels per day (mmbd) from about 4.1 mmbd in the mid-2000s, and was projected to fall to about 3.3 mmbd by 2015 before the new sanctions were imposed.²⁷⁰ Although Iran remains a relatively minor natural gas exporter, some maintain that Iran's gas sector can more than compensate for declining oil exports.²⁷¹ Given the current political climate, it is highly unlikely that Iran will attract the \$145 billion in new investment by 2018 that Tehran's deputy Oil Minister has said Iran needs in order to develop its gas sector.²⁷² However, China has recently signed a contract with Iran for \$20 billion to invest in the Azadegan and Yadavaran oil fields.

Some Iranian officials have acknowledged this vulnerability. In recent years, record oil prices insulated Iran from international sanctions and allowed the government to pursue populist policies intended to raise living standards of ordinary Iranians. From 2005, when Ahmadinejad came to power, until 2010, Iran took in nearly \$500 billion in total oil revenue, more than the combined earnings of all previous Iranian governments since the 1979 revolution.²⁷³ But the

²⁶⁶ Testimony of Special Advisor Robert Einhorn. House Committee on Oversight and Government Reform. July 29, 2010

 $http://democrats.oversight.house.gov/images/stories/Hearings/Committee_on_Oversight/2010/072910_Iran_Sanctions/TESTIMONY-Einhorn.pdf.pdf$

²⁶⁷ Kenneth Katzman, "Iran Sanctions," CRS, 22 June 2011, p. 56-57

²⁶⁸ http://www.acus.org/new atlanticist/china-undercuts-sanctions-iran

²⁶⁹ Kenneth Katzman, "Iran Sanctions," CRS, 22 June 2011, p. 56-57

²⁷⁰ The Wall Street Journal, "Irans falling oil output means less revenue, clout," Spencer Swartz, June 26, 2010. http://online.wsj.com/article/SB10001424052748704569204575328851816763476.html

²⁷¹ Kenneth Katzman. "Iran Sanctions." CRS, 22 June 2011.

²⁷² http://www.gao.gov/products/GAO-10-515R

²⁷³ Kenneth Katzman. "Iran Sanctions." CRS, 22 June 2011.

United States and Saudi Arabia are using Iran's dependence on oil exports against them by lowering oil prices.

The two countries worked in tandem to lower oil prices after OPEC – with Iran serving as chairman – decided against doing so at its June 8, 2011, meeting.²⁷⁴ The Obama administration released a portion of the U.S. strategic oil reserve, and Saudi Arabia simultaneously pledged to unilaterally increase production, which caused the price of oil to quickly drop by close to \$80 a barrel – a price that has since rebounded as of July 2011.²⁷⁵ In the words of Reza Zandi, an independent oil and gas expert based in Iran, "The Americans and Saudis are using oil as a weapon against us."²⁷⁶

Adding Banking Sanctions to Energy Sanctions

Even before the EU instructed SWIFT to halt transactions with Iranian banks and financial institutions, Iran encountered serious and growing problems in finding financial institutions willing to handle Iranian payments to energy companies as well as processing foreign payments for its exported oil. Traders and oil company officials said European and Middle Eastern banks have all but stopped issuing letters of credit with Iranian financial institutions, making it very difficult to transact payments for oil sales. It has become so difficult to complete oil sales though regular banks that India and Turkey have reportedly resorted to paying for oil and gas purchases through local currencies, gold, or other commodities.

Shipping companies began refusing to send tankers to Iranian oil terminals, and insurers became steadily more reluctant to cover cargoes even before additional sanctions on marine insurance were instituted.²⁷⁷ This indicated that the US strategy is having an effect, and Peter Pham of the Atlantic Council predicts that, "At some point or another, Iran's shrinking pool of partners will conclude that the cost of doing business with it is too high."²⁷⁸ As Tehran confronts an ever dwindling number of financial institutions willing to facilitate its commerce, Chinese banks may become the last remaining source of finance for Iranian trade.²⁷⁹ While South Korea does maintain Iranian Central Bank accounts in government-owned Industrial Bank of Korea and Woori Bank they are restricted to only processing transactions relating to oil purchases and are denominated in Won.

Even those foreign banks that were still doing business with Iran were having growing trouble in financing energy deals. Reports have shown that some Iranian officials are growing increasingly angry about the inability of Iran's largest oil customers to pay in US dollars or Euros, a problem

²⁷⁴ Kenneth Katzman, "Iran Sanctions," CRS, 22 June 2011.

²⁷⁵ Kenneth Katzman, "Iran Sanctions," CRS, 22 June 2011.

²⁷⁶ The Washington Post, "In Iran, sanctions aim at shipping lifeline," Thomas Erdbrink, July10, 2011. http://www.washingtonpost.com/world/national-security/in-iran-sanctions-aim-at-shipping-lifeline/2011/07/08/gIQAyJgw7H_story_1.html

²⁷⁷ Reuters, "Iran shipping companies face more heat," Jonathan Saul, May 24, 2010. http://www.reuters.com/article/2011/05/24/iran-shipping-sanctions-idUSLDE74N16T20110524

²⁷⁸ Reuters, "Iran shipping companies face more heat," Jonathan Saul, May 24, 2010. http://www.reuters.com/article/2011/05/24/iran-shipping-sanctions-idUSLDE74N16T20110524

²⁷⁹ The Financial Times, "Sanctions put choker on Iran oil exports," Javier Blas, September 14, 2010. http://www.ft.com/intl/cms/s/8efd517e-bf5d-11df-965a-00144feab49a,dwp_uuid=c91807cc-1c27-11dd-8bfc-000077b07658,print=yes.html

that has contributed to a shortage of hard currency and complicated the central bank's attempts to bolster the Iranian Rial, which has sharply devalued as of early October. Some analysts believe that Iran's foreign currency reserves, estimated at \$106 billion on January 1st 2012, have begun to shrink, with one analyst estimating that Iran currently has \$50-70 billion of reserves left.

Indian refiners faced crude supply disruptions from Iran, because they could no longer process payments since the Reserve Bank of India, in December 2010, barred trade-related payments to the Asian Clearing Union. By March, India had resumed payments to Iran by using a barter system in which non-convertible Rupees will make up 45% of the total oil sales, but it is unclear how long the present arrangement will last. In addition, US financial sanctions blocked China from paying at least \$20bn for oil imports, leading Tehran and Beijing to initiate talks about using a similar barter system to exchange Iranian oil for Chinese goods and services in order to circumvent sanctions. China has reportedly been trading goods and services to Iran in exchange for oil, including wheat and consumer products.

These problems are almost certainly a result of the EU's action against Iranian use of the SWIFT system. The SWIFT cut-off affects at least 19 Iranian member banks and 25 financial institutions, including Bank Melli, Bank Mellat, Tejarat Bank, Bank Refah, Future Bank, Persia International Bank, Post Bank and Europäisch-Iranische Handelsbank.

Iran has few alternatives to the use of SWIFT other than tightly regulated South Korean and Indian government controlled banks, and it is likely to face even more serious problems during 2012 if Congress or the EU passes additional sanctions on Iran's banks and ability to conduct foreign trade. The Senate and House of Representatives continue to work on bills that would seek to blacklist essentially every Iranian bank, threaten penalties against European and other overseas companies that deal with any of these banks, and to target communications, software and technology companies that continue doing business with Iranian banks.²⁸⁵

Nevertheless, high oil prices amid uncertainty and upheavals in the Middle East could still create a limited "cushion" for Iran. Prices are likely to remain high and volatile as long as protests and concerns about supply disruptions continue across the region. The global economy has limits on how long it can tolerate extremely high prices, but Iran may be able to paper over its fundamental economic problems as long as it can move its oil into export markets. However, as sanctions continue to isolate and cut off Iran from the international banking system, high oil prices cannot create a "cushion" if Iran cannot receive the proceeds for oil sales, receives non-convertible currency, or goods or services.

²⁸⁰ The Financial Times, "China and Iran plan oil barter," Najmeh Bozorgmehr, July 24, 2011. http://www.ft.com/intl/cms/s/0/2082e954-b604-11e0-8bed-00144feabdc0.html#axzz1T53j9m88

²⁸¹ http://www.reuters.com/article/2012/10/01/us-iran-currency-drop-idUSBRE89014620121001

²⁸² The Wall Street Journal, "India looks beyond Iran for oil," Rakesh Sharma, July 19, 2011. http://online.wsj.com/article/SB10001424052702303661904576455290145486746.html?mod=googlenews_wsj

²⁸³ Kenneth Katzman, "Iran Sanctions," CRS, September 16, 2012.

²⁸⁴ The Financial Times, "China and Iran plan oil barter," Najmeh Bozorgmehr, July 24, 2011. http://www.ft.com/intl/cms/s/0/2082e954-b604-11e0-8bed-00144feabdc0.html#axzz1TPEoItVf

²⁸⁵ Laurence Norman and Jay Soloman, "EU-US Split on Iran Banks Seen as Widening," Wall Street Journal, March 16, 2012.

Finally, although many Western companies have fled from Iran, some remain interested in exploring profitable Iranian projects in the future, if possible. Despite European and American sanctions large multinational firms such as Volvo, Cannon, Samsung, Sony, and others are remaining in the Iranian market.²⁸⁶ And 315 foreign companies from 40 countries – including the UK, US, and Germany attended the 17th International Oil, Gas, Refining, and Petrochemical event in Tehran in April 2012.²⁸⁷ However, this number was a drastic reduction from the 1,500 firms that attended in April 2011 and the 315 that did show were vastly overshadowed by the 940 Iranian companies that attended the event. ²⁸⁸

²⁸⁶ Kenneth Katzman, "Iran Sanctions," CRS, September 16, 2012.

²⁸⁷ http://www.presstv.ir/detail/236704.html

²⁸⁸ Sadeq Dehgan, "More Foreign Firms At Oil Expo," Zawya, April 19, 2011.

Figure V.14: Energy Firms Ending Business with Iran 2009-2011

Country	Company	Action
France	Total	Ended investments in Iran
Germany	Linde	Stopped all business
	Schlumberger	Will exit Iran 2013
India	Reliance	Stopped sales of refined products; will not import crude oil from Iran
Italy	Eni spA	Ended investments in Iran
Japan	Inpex Corp.	Exited from the Azadegan oil field
Kuwait	Independent Petroleum Group	Stopped sales of refined products
Malaysia	Petronas	Stopped sales of refined products
Netherlands	Royal Dutch Shell	Ended investments in Iran
Norway	Statoil	Ended investments in Iran
South Korea	GS Engineering & Construction	Cancelled a \$1.2 billion gas processing project in Iran
Spain	Repsol	Abandoned negotiations over development of phases 13 and 14 of the South Pars gas field.
Switzerland	Vitol	Committed to not supply refined petroleum products to Iran
	Glencore	Committed to not supply refined petroleum products to Iran
	Trafigura	Committed to not supply refined petroleum products to Iran
Turkey	Tupras	Cancelled contracts to supply gasoline to Iran
United Kingdom	BP	Stopped supplying jet fuel to Iran Air at Germany's Hamburg airport; halted a BP- NIOC (National Iranian Oil Company) joint venture in the Rhum gas field
International	Trans-Adriatic Pipeline	The pipeline will not be used to transport Iranian gas to Europe

http://www.state.gov/r/pa/prs/ps/2011/05/164131.htm Kenneth Katzman, "Iran Sanctions," CRS, 22 June 2011, p. 56-57 http://www.state.gov/r/pa/prs/ps/2011/05/164131.htm

http://www.bp.com/genericarticle.do?categoryId=2012968&contentId=7066132 http://online.wsj.com/article/SB10001424052748704779704575553440314351522.html

http://www.foxbusiness.com/markets/markets/2010/10/01/factbox-foreign-companies-stepping-away-iran/

October 16, 2012

Gasoline and Product Imports – Iran's Energy Import Problem

As has been discussed earlier, Iran has another critical vulnerability. It has never had refinery capacity to sufficient to produce enough petroleum products to meet its own domestic needs, even when sanctions have constrained Iran's gasoline production, refining capacity, and imports. In 2010 it was estimated that Iranian refineries can only fulfill 58% of local gasoline demand, which until two years ago, relied on support from heavy state subsidies. Iran is dependent on gasoline imports for about 40% of its consumption, which costs the government between \$5 and \$7 billion annually.

The costs of trading have already risen 40%-60% due to sanctions, lack of shipping insurance and bunkering provisions, currency devaluation, and others.²⁹¹ Major shipping companies have left the Iranian market due to sanctions, forcing Iran to issue government-backed insurance to foreign and domestic ships. EU-based insurance companies, which make up 90% of the world's tanker fleet, have been barred from insuring ships carrying Iranian oil. German insurance giants Munich Re, Allianz, Hannover Re, as well as Britain's Lloyds of London – Iran's primary insurer – have all ended their business with Iran as of July 2010.^{292, 293}

This is in addition to the numerous international gas suppliers that have discontinued supplying gasoline to Iran.²⁹⁴ Of the top eleven companies providing gasoline to Iran in 2010, all but three – two owned by China, one by Russia – have since ended their sale of gasoline to the Islamic Republic.²⁹⁵ This has, by some accounts, resulted in gasoline imports dropping from about 3.5 million barrels per day to roughly 900,000 barrels per day in 2010.²⁹⁶ This nearly 75% reduction is largely the result of international pressure and sanctions. The US Department of State estimates that, all told, Tehran has been denied \$50 to \$60 billion worth of upstream energy revenue.^{297, 298}

While these numbers are out of date, they are the most reliable data in the past few years. Most data since 2011 is highly suspect; Iran's official data is highly optimistic and most likely wrong, outside estimates are similarly suspect due to Iran's inflated data and Iranian methods to skirt sanctions. Sanctions have forced Iran to employ gray-market tactics in order to buy oil and gas

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²⁸⁹ Ebel, Robert, "Geopolitics of the Iranian Nuclear Energy Program," Center For Strategic and International Studies, March 2010, http://csis.org/files/publication/100312_Ebel_IranNuclear_web.pdf

²⁹⁰ Ebel, Robert, "Geopolitics of the Iranian Nuclear Energy Program," Center For Strategic and International Studies, March 2010, http://csis.org/files/publication/100312_Ebel_IranNuclear_web.pdf

²⁹¹ Kenneth Katzman, "Iran Sanctions," CRS, September 16, 2012.

²⁹² Kenneth Katzman, "Iran Sanctions," CRS, 22 June 2011

²⁹³ Kenneth Katzman, "Iran: U.S. Concerns and Policy Responses," CRS, 9 June 2011

²⁹⁴The Financial Times, "Traders cut Iran petrol line," Javier Blas, September 14, 2010.

²⁹⁵Kenneth Katzman, "Iran Sanctions." Congressional Research Service. December 13, 2010. http://www.fas.org/sgp/crs/mideast/RS20871.pdf; Country Analysis Briefs – Iran, Energy Information Agency, January 2010, http://www.eia.doe.gov/emeu/cabs/Iran/Full.html; "Factbox: Foreign Companies stepping away from Iran," Reuters, September 23, 2010, http://www.reuters.com/article/idUSTRE68M1Q120100923

²⁹⁶ Information provided at Foundation for Defense of Democracies conference on Iran. December 9, 2010.

²⁹⁷ Kenneth Katzman, "Iran Sanctions," CRS, 22 June 2011.http://www.fas.org/sgp/crs/mideast/RS20871.pdf

²⁹⁸ National Review, "Beyond Sanctions," Juan Zarate, September 20, 2010

products, making the amount of imported energy products imported every month increasingly hard to estimate.

Nevertheless, Iran has engaged in efforts to compensate for the increasing difficulties in importing refined oil and gas by attempting to increase domestic production of petroleum products, but has encountered difficulties. Tehran began converting petrochemical plants into refineries and has dedicated \$2.2 billion for accelerated renovations and improvements to existing gasoline refineries. However, the majority of Iranian crude produced is of the heavy type, which requires more energy to transport and refine. Iranian domestic gasoline, however, contains 10 times more harmful particles than the imported version that, may contribute to increased pollution, smog, and health problems.²⁹⁹

Iran's drive to ramp-up domestic production culminated in September of 2010 when Oil Minister Massoud Mirkazemi proclaimed that Iran had become self-sufficient and had halted all gasoline imports.³⁰⁰ Their decision to invest in domestic refining was made necessary by Western sanctions, and Tehran appears dedicated to further building their refining capacity in order to minimize the effects of international pressure. In July 2010, Iranian Deputy Oil Minister announced an ambitious new plan to invest \$46 billion in upgrading nine existing refineries and constructing nine brand new facilities.³⁰¹

According to Iranian news sources, Iran has stopped importing gasoline and has improved its production capacity from 43 million liters per day last Iranian calendar year (20 March 2010 - 19 March 2011) to 70 million liters per day at the end of this current Iranian calendar year. ³⁰² Iranian sources also report that the country has exported gasoline last year, worth roughly \$134 million. ³⁰³ While these numbers are small and should be taken with appropriate skepticism, it does show that Iran may be slowly improving its petrochemical production.

In addition to boosting production, Iran has also undergone major reforms in an effort to reduce domestic demand for gasoline and petrol product. The Targeted Subsidies Reform discussed earlier made Iran the first major energy producing country to make dramatic cuts to subsidies on energy products and replace them with across the board energy dividend transfers to the population.³⁰⁴ A recent report by the IMF observes that the phase-out of gasoline subsidies has already begun to reduce demand:

The increases in prices of energy products, public transport, wheat, and bread adopted on December 19, 2010, are estimated to have removed close to US\$60 billion (about 15 percent of GDP) in annual implicit subsidies to products. At the same time, the redistribution of the revenues arising from the price increases to households as cash transfers has been effective in reducing inequalities, improving living standards, and supporting domestic demand in the economy. The energy price increases are already leading to a decline in excessive domestic energy consumption and related energy waste. While the subsidy reform is expected to

²⁹⁹ The Wall Street Journal, "Iranians blame smog on West's sanctions," Farnaz Fassihi, December 11, 2010.

Junited Press International, "Iran Halts Gasoline Imports," September 20, 2010. http://www.upi.com/Business_News/Energy-Resources/2010/09/20/Iran-halts-gasoline-imports/UPI-47021284993256/

³⁰¹ Kenneth Katzman, "Iran Sanctions," CRS, June 22, 2011.

http://english.farsnews.com/newstext.php?nn=9104254519

³⁰³ http://english.farsnews.com/newstext.php?nn=9102110040

³⁰⁴ The wall Street Journal, "Iranians, Given No Choice, Adjust to Soaring Prices," January 20, 2011.

result in a transitory slowdown in economic growth and temporary increase in the inflation rate, it should considerably improve Iran's medium term outlook by rationalizing domestic energy use, increasing export revenues, strengthening overall competitiveness, and bringing economic activity in Iran closer to its full potential.³⁰⁵

This reform package has been controversial within Iran, and it is blamed for substantial increases in energy and basic staple prices. Some reports have concluded that a person living in a 90 square meter apartment who paid \$3-4 a month for gas will now pay around \$97 for the same level of consumption. Gasoline, which was \$.36 cents a gallon, quadrupled to \$1.44 a gallon. To raise country whose GDP per capital (PPP) is only estimated at \$13,200, the removal of these subsidies is a major blow to the middle and lower classes. Coupled with cash handouts that are decreasing in value due to high levels of inflation the Iranian economy, people are now consuming much less energy, mostly because it is too expensive. Some have speculated that the increased economic pressure on the middle class could lead to widespread protests against the government. As of October 3rd there have reportedly been protests at the main bazaar in Tehran that started when police attempted to shut down black-market money changers. More and more protests may occur as sanctions continue to have an effect on the Rial's value and the economy continues to deteriorate.

Circumventing Energy Sanctions

There still are limits to the combination of old and new sanctions regimes, driven in part by the world's steadily growing need for oil imports. The UN sanctions – partly as a concession to Russia and China – do not place limitations on oil or natural gas transactions. The US has decided, then, to encourage other countries to adopt independent sanctions on the Iranian energy sector. Many European and Asian countries have complied with the expanded sanctions, but as long as the Chinese and Russians continue to implement only the UN sanctions, Iran will continue to have access to large export markets.

Iran attempted to reflag its ships in Tuvalu and Tanzania to avoid the insurance sanctions, and was partially successful. Further, Iran has used, and may continue to use, the port of Labuan in East Malaysia to avoid Western sanctions. According to a Reuters report, Iran has and may be continuing to engage in sanctions avoidance by using middle-of-the-night ship-to-ship oil transfers to floating storage ships in Labuan harbors. Then, in a complex set of inter-company transfers, the oil is then sold through another company that is reportedly an affiliate of the National Iranian Oil Company.³¹⁰ This shows the lengths that Iran will go to sell its oil and the effectiveness of current oil and banking sanctions.

³⁰⁵ Statement by IMF Article IV Mission to the Islamic Republic of Iran, Press Release no. 11/228, June 13, 2011. http://www.imf.org/external/np/sec/pr/2011/pr11228.htm

³⁰⁶International Affairs Review, "It's all about the price of watermelon: Subsidy reform in Iran," Reza Akbari and Monica Witt, March 28, 2011. http://www.iar-gwu.org/node/291

³⁰⁷ http://news.nationalgeographic.com/news/energy/2012/06/pictures/120618-large-fossil-fuel-subsidies/

³⁰⁸ http://news.nationalgeographic.com/news/energy/2012/06/pictures/120618-large-fossil-fuel-subsidies/

³⁰⁹ http://www.nytimes.com/2012/10/04/world/middleeast/clashes-reported-in-tehran-as-riot-police-target-money-changers.html?hp

http://in.reuters.com/article/2012/09/12/us-iran-oil-sanctions-idINBRE88B1IO20120912

China is also playing a role in helping Iran circumvent Western energy sanctions. Firms such as Zhuhai Zhenrong, Unipec, and China Oil of China are reportedly continuing to supply oil to Iran even though one company Zhuhai Zhenrong, was sanctioned for this activity in January.³¹¹ China's enormous energy needs, has led it to invest in countries where US sanctions forbid American and European companies from doing business, such as the Sudan and Iran.³¹² As a result, Iran has become one of the largest suppliers of China's foreign oil, providing 11% of its oil imports in 2011.³¹³ However, according to the EIA, China reduced its imports of Iranian oil by 34% in the first quarter of 2012.³¹⁴ But the drop was caused largely by a pricing and contract dispute between Iran and China earlier this year and not the result of official Chinese policy to reduce imports from Iran and Iran reportedly exports half of its production to China.³¹⁵ In March of 2008, a US diplomatic cable reported a conversation between Chinese Arms Control Director General Cheng Jingye and Senate Foreign Relations Committee East Asia specialist Frank Jannuzi. Jimgye warned that,

"China has made clear its need for energy resources and has previously stated that its cooperation with Iran on energy has nothing to do with the Iran nuclear issue...The threat of sanctions against Sinopec [a major Chinese oil company] is a very serious issue...Sinopec is very important to China and Cheng 'can't imagine' the consequences if the company is sanctioned."³¹⁶

China has also defended its imports of Iranian crude and has resisted unilateral sanctions against Iran. In June, the Chinese Foreign Ministry Spokesman Hong Lei, stated in a press conference that.

China has been importing crude oil from Iran through normal channels based on its needs of economic development. Such import is reasonable, justified and legal. It does not violate relevant UN Security Council resolutions or undermine the interests of a third party or the international community. China always opposes one country's imposition of unilateral sanctions on another country on the grounds of its domestic laws, even less will it accept such sanctions to be imposed onto a third country. 317

Iran bought half of its gasoline imports in July 2011 from Chinese sellers, which amounted to approximately 45,000 barrels per day.³¹⁸ This relationship has led China to resist UN sanctions in the past due to fears that it will hamper China's energy supply. And Chinese energy ties to Iran may become stronger, 166 Chinese firms attended the 16th International Oil, Gas, Refining and Petrochemical event held in Tehran in April 2011.³¹⁹

³¹¹ "Iran Sanctions", Kenneth Katzman, CRS, September 13, 2012. Pg, 62

³¹² Susan Shirk, China: Fragile Superpower (New York: Oxford University Press, 2007), 138.

³¹³ People's Daily Online, "Saudi Arabia, Angola, Iran remain top 3 oil suppliers to China," February 10. 2010. http://english.peopledaily.com.cn/90001/90778/90858/90863/6892818.html

³¹⁴ http://www.eia.gov/countries/cab.cfm?fips=CH

³¹⁵ "Iran Sanctions", Kenneth Katzman, CRS, September 13, 2012. Pg, 51

³¹⁶ "China undercuts sanctions on Iran", Barbara Slavin, Politico, June 2, 2011. http://www.politico.com/news/stories/0611/56031.html

³¹⁷ http://news.xinhuanet.com/english/bilingual/2012-07/05/c 131697440.htm

³¹⁸ Reuters, "Iran buys July gasoline from Turkey, Chinese sellers," July 8, 2010. http://in.reuters.com/article/2010/07/08/iran-gasoline-imports-idINLDE6671KD20100708

The Financial Times, "Deadlock over Iran oil and gas take toll," Najmeh Bozorgmehr, April 20, 2011.

As has been touched upon earlier, Russia has resisted expanded sanctions and part of this is for energy reasons. Iran and Russia have in the past pursued economic partnerships involving oil and gas exportation and refining.^{320, 321} But since 2011, Russian companies have not signed any large deals with Iran to develop or improve their energy sector.

Tehran and Ankara have a complicated, and at times acrimonious, relationship, but Turkey represents a potentially profitable energy partner for Iran. While Turkey has asserted in the past that UN and US sanctions will not prevent its cooperation with Iran in supplying its own and Europe's growing energy needs, recent events and the current deterioration in Turkey-Iran relations point to a decreasing reliance on Iranian oil and natural gas. Turkey previously reduced its importation of Iranian oil to win a waiver from US sanctions earlier in the year but its imports jumped in August after it used Iranian-owned tankers to skirt sanctions.

Turkey and Iran have discussed the construction of a pipeline that would deliver Iranian oil across Turkey to Europe, possibly expanding the scope of Iran's oil markets in Central and Western Europe.³²² The Nabucco Project is a proposed 3,300-km gas pipeline starting at the Georgian/Turkish (and/or the Iranian/Turkish border) and running to Austria, via Turkey, Bulgaria, Romania and Hungary.³²³

EU nations have been interested in the Nabucco project because it represents an opportunity for the EU to diversify its gas supply options and reduce its reliance on Russian gas imports, which in 2009 amounted to around 33% of their total demand.³²⁴ The deal has remained controversial, however, as a result of EU sanctions, and Nabucco Gas Pipeline International, due to what it calls "the current political situation," decided not to plan a third pipeline to the Turkish-Iranian border as of 2011.³²⁵ Despite this setback for Iran, Nabucco is actively seeking new gas suppliers, which leaves the door open to future Iranian-Turkish energy cooperation.³²⁶ However, the final decision on the pipeline is not expected until mid-2013 and ultimate fate of the project is very much in doubt.

The end result is that influencing third country decisions to circumvent or ignore sanctions will remain an important part of US and Iranian competition. Iran still possesses enormous energy resources that will continue to be an attractive investment opportunity. The desire to build a lucrative foothold in Iranian energy may become a consideration for countries that are ambivalent about supporting Western regional influence in the future.

What is far less clear, however, is how Iran can avoid the impact of the growing sanctions on its banking industry and ability to carry out foreign currency transactions and trade. Again, the

³²⁰ Reuters, "Tehran says Russia eyes gas swaps with Iran," November 1, 2008.

³²¹ U.S. Energy Information Administration (EIA) - U.S. Dept. of Energy- U.S. Government, International Petroleum (Oil) Production Report, October, 2008.

³²² Pipeline and Gas Journal, "Pipeline Construction Scoreboard: Projects Planned and Under Construction," September 2008.

³²³ Parkinson, Joe, "Iran Sets Turkish Pipeline Project," Wall Street Journal, July 24, 2010,

³²⁴ http://www.pipelineandgasjournal.com/nabucco-pipeline-project-gas-bridge-europe

³²⁵ http://portal.nabucco-pipeline.com/portal/page/portal/en/NewsEdit/8E79E5BF557DCC2DE040A8C0010178CA

³²⁶ Dow Jones Newswire, "RWE executive sees good progress on Nabucco gas supply deal," Jan Hromadko, September 11, 2011. http://online.wsj.com/article/BT-CO-20110913-704599.html

combined actions of EU sanctions and SWIFT cut-off, coupled with US banking sanctions have largely cut Iran out of the world finance and banking industries. This has reduced Iran's access to world markets and has hampered its ability to both pay and the proceeds of trade. This had and additional knock-on effect of destabilizing Iran's currency, reducing its foreign-exchange reserves, and limiting financing options.

The Future Impacts of Sanctions

It is far too soon to determine just how much impact the new sanctions – and any additional sanctions that follow – will have on Iran. Long before new sanctions were put in place in late 2011 and 2012, however, sanctions made it increasingly difficult for Iran to compete with other developing economies in international markets, put it at a disadvantage for attracting crucial foreign direct investment, and left the Iranian government unsure of how to confront the growing challenges.³²⁷

The Impact of Sanctions on the "Short Game"

Many economists and analysts agree that even the threat posed by the new sanctions have caused Iranian prices to rise and making it increasingly difficult for Iranian companies to work internationally. Iran's currency was already becoming far more unstable by late December 2010 – dropping in value to record lows – which led to increasingly haphazard attempts at government intervention. The Iranian Rial fell to a new low relative to world currencies in early October 2012, with a black market rate of 37,000 Rials to the dollar, compared with 24,600 as of the last week of September and 11,000 to 12,000 as recently as December 2011, and a rate of 6,859 Rials in late July 2011. The official exchange rate, which is only used for special purposes such as importing food and medicine, is 12,600 Rials to the dollar.

At the same time, virtually every transaction affecting imports and experts was affected by either the decline of the Rial or the uncertainties surrounding the willingness of non-US banks and firms to deal with Iran, given the threat of US sanctions or pressure from Europe and the Arab Southern Gulf states.

By the first week in October 2012, Iran's currency had lost over 80% of its value since 2011.³³⁰ As newly imposed sanctions began to take effect in January and February of 2012, the currency once artificially held high by Iranian government subsidies began to plummet as the Islamic regime could no longer bear the financial burden necessary to manipulate the market. According to CRS's February 2012 report on Iran Sanctions, "The payments process has become so difficult that Iran has begun to use gold and oil to pay for wheat and other imports."³³¹ The

http://mideast.foreignpolicy.com/posts/2012/10/02/suffering_from_sanctions_iran_s_currency_plunges_to_a_record_low

³²⁷ Kevan Harris, "Iran's new economic slump", The Iran Primer, USIP, June 22, 2011. http://iranprimer.usip.org/blog/2011/jun/21/iran's-new-economic-slump

³²⁸The Washington Post, "Sanctions begin to compound Iran's severe economic problems", Thomas Erdbrink, October 5, 2010. http://www.washingtonpost.com/wp-dyn/content/article/2010/10/05/AR2010100505972.html

^{329 &}lt;a href="http://www.exchangerates.org.uk/USD-IRR-exchange-rate-history.html">http://www.exchangerates.org.uk/USD-IRR-exchange-rate-history.html; Rick Glasdtone, "Iran's Currency at Low vs. Dollar, New York Times," January 19, 2012.

³³¹ "Iran Sanctions", Kenneth Katzman, CRS, February 10, 2012.

updated September version includes this as well, "Compounding the loss of sales by volume is that many of its oil transactions reportedly are now conducted on a barter basis—or in exchange for gold, which is hard currency but harder to use than cash."³³²

These developments are particularly important because existing sanctions had had an indirect impact on Iranian monetary policy as well. US sanctions on Iranian banks altered the availability of foreign currency and the exchange rate of the Iranian Rial has suffered in turn. The CRS report on Iran Sanctions goes into further detail:

The deprivation of hard currency is causing a reduction in the value of Iran's currency, the Rial. The effects of existing sanctions, and the worry about further sanctions, have reportedly driven the value of the Rial down from about 13,000 to the dollar in late September 2011 to about 28,000 to the dollar as of mid-September 2012 – including a precipitous decline from about 23,000 to the dollar to the 28,000 to the dollar level in the first two weeks of September 2012. Some experts attribute the decline to the movement of money by the middle and upper class out of the country to preserve the value of their savings. The government has been unable to stanch the decline with measures such as raising official interest rates. 333

The costs of trading with Iran had also risen substantially as a result of US, UN, and EU sanctions. Costs associated with Iranian trade increased by an estimated 40% to 60% and EU exports to Iran have fallen 32%, according to outside figures.³³⁴ Official numbers from Iran's Trade Commission painted a less dramatic rise; nonetheless, but indicated that still concede that sanctions have slowed the pace of trade and increased trade costs for Iran between 5% and 10% in 2010.³³⁵

In his January 2012 Worldwide Threat Assessment, US Director of National Intelligence James Clapper stated that: 336

Iran's economy is weighed down by international sanctions. The new US sanctions will have a greater impact on Iran than previous US designations because the Central Bank of Iran (CBI) is more important to Iran's international trade than any of the previously designated Iranian banks. The CBI has handled a greater volume of foreign bank transactions than other designated banks and receives the revenue for the roughly 70 percent of Iranian oil sold by the National Iranian Oil Company...

Despite this, Iran's economic difficulties probably will not jeopardize the regime, absent a sudden and sustained fall in oil prices or a sudden domestic crisis that disrupts oil exports. In a rare public indication of the sanctions' impact, Ahmadinejad said in a speech to the legislature in early November that Iran is facing the "heaviest economic onslaught" in history, a sentiment echoed by the head of the CBI."

Since February 2012, the accumulated effects of strengthened international sanctions have damaged Iran's economy in numerous ways. As broader sanctions increase in size and scope, Iran is losing business from both countries imposing sanctions, as well as those afraid of the risks of doing business with Iran. The loss of revenue from the EU, China, Japan, and South Korea accounts for 1 million of the 2.5 million barrels sold by Iran each day.³³⁷ The sales losses account

³³² "Iran Sanctions", Kenneth Katzman, CRS, September 13, 2012. Pg, 51

^{333 &}quot;Iran Sanctions", Kenneth Katzman, CRS, September 13, 2012. Pg, 51

³³⁴ "Iran Sanctions", Kenneth Katzman, CRS, September 13, 2012.

³³⁵ Shayerah Ilias, "Iran's Economic Conditions: US Policy Issues," Congressional Research Service, April 22, 2010, http://www.fas.org/sgp/crs/mideast/RL34525.pdf

³³⁶ "Unclassified Statement for the Record on the Worldwide Threat Assessment of the US Intelligence Community for the Senate Select Committee on Intelligence", DNI James R. Clapper, January 31, 2012.

³³⁷ "Iran Sanctions", Kenneth Katz, Congressional Research Service, February 10, 2012.

for roughly \$40 billion in lost revenue in one year at current oil prices.³³⁸ Additionally, decreasing trade and increasing inflation is leading to increased frustration among the Iranian public. Recent economic troubles have led business to downsize or close all together.

Figure V.15 shows other aspects of the interaction between sanctions and Iran's self-inflicted economic problems. Furthermore, anecdotal and press reports suggest that many Iranians, particularly in the middle class were blaming the regime for economic difficulties brought about by the sanctions as well as the regime's own economic missteps in early 2011. There have been similar reports of unrest among small and large merchants who were having trouble obtaining trade financing, insurance, and shipping availability, which was driving up their costs by an estimated 40%, if the merchants could complete transactions at all.³³⁹ Iranian merchants are increasingly using the *hawala* system to complete transactions due the difficulty of using banking systems.

What is clear is that the new sanctions have already a major impact, this impact will grow steadily during 2012 and that over time, the new sanctions have a cumulative impact as Iran's savings, foreign exchange reserves, oil and gas export income, and the ability to fund imports are reduced. While they are not targeted at the Iranian people, they have and will continue impact every Iranian except the very poor and the very rich, and will do so in an economy where savings and investment have been hurt by inflation, a devalued currency, and economic mismanagement. Any new series of sanctions is certain to have a growing impact on every Iranian whose income is shaped by the market economy – the vast majority in a country that the World Bank and CIA estimate is 67% to 71% urbanized.

It does seem likely, therefore, that the new sanctions will produce a major economic crisis for Iran by the winter of 2012, if they have not done so already, unless Iran does more than simply negotiate, threaten, and posture. Iran's leadership may be able to persevere in spite of such pressures, but this is also uncertain. Past polls and election results are one thing, popular discontent after new sanctions combine with old may be a different story.

It is important to note, however, that the "hardliners" in the regime have become steadily more divided now that sanctions are biting much harder. Iranians cannot avoid seeing the deep differences with in the clergy, the growing role of unelected leaders of the IRGC, and the bitter exchanges between the Supreme Leader Ali Khamenei and President Mahmoud Ahmadinejad. Iran's history of corrupt presidential and legislative elections and crackdowns on human rights do not help. The more that sanctions interact with repressive restrictions on normal life, the more these problems are likely to impact on all classes of Iranian society.

Moreover, Iran seems be sending mixed signals. There were reports in early October 2012 that that Iran had offered a new plan to end the nuclear confrontation. ³⁴⁰ The plan was said to be largely a rehash of past negotiating proposals that called for early dismantling of the sanctions, and a slow dismantling of the key enrichment sites like Fordow in ways that could allow Iran to move its enriched stocks and send them to other concealed centrifuge facilities or store them for a future breakout attempt.

³³⁸ "Iran Sanctions", Kenneth Katz, Congressional Research Service, September 13, 2012.

³³⁹ The Associated Press, "Iran's Gateway in Dubai Highlights Sanctions Bite," Brian Murphy, February 1, 2011. http://abcnews.go.com/Business/wireStory?id=12808709

David E. Sanger, "Iranians Offer Plan to End Nuclear Crisis," New York Times, October 5, 2012, p. A6.

The reports indicated that this plan was rejected by the United States because it would allowed Iran to continue to enrich Uranium until sanctions were completely removed, and allow Iran's stockpile of 20% enriched Uranium to remain in the country -- making it easier for Iran to retain a "breakout" capacity. The reported plan indicated Iran might have calculated that the end result would be to dismantle the sanctions effort in ways the US and EU could not rebuild, and simply be a variant on Iran's past "negotiate and proceed" tactics. Such reports were, however, at least a sign that sanctions might drive Khamenei to accept a serious agreement.³⁴¹ Two days later, however, Iranian officials dismissed the report. They claimed the report was "baseless," and that "Iran has never delivered any new proposal other than what had been put forward in talks with the P5+1."

These mixed reports should be considered in the context that Iran had become steadily more critical of the IAEA since the spring of 2012 – increasingly implying that the IAEA's activities and reports were an extension of US and Western sanctions efforts and intelligence activities. IAEA officials also became the target of anti-IAEA protests in Tehran from mid-August on.

Iran also took a far harsher tone with the IAEA in the days that followed reports of a new Iranian negotiating proposal and Iran's denial. Iran accused the international agency's inspectors of sabotaging Iran's electrical grids supplying Iran's Fordow and Natanz enrichment plants during August's IAEA inspection. Iranian officials also accused the agency of tampering with equipment and Fereydoun Abbasi, Iran's chief nuclear official said that, "Terrorists and saboteurs might have intruded the agency and might be making decisions covertly." 343

These developments may have reflected and Iranian effort to prepare for either downgrading its relationship with the IAEA or removing the inspectors altogether. An increasingly hostile relationship between Iran and the IAEA would seriously imperil future negotiations. While the outright removal of inspectors would instantly increase tensions to the point that Israel would seriously consider a preemptive strike.

³⁴¹ David E. Sanger, "Iranians Offer Plan to End Nuclear Crisis," *New York Times*, October 5, 2012, p. A6.

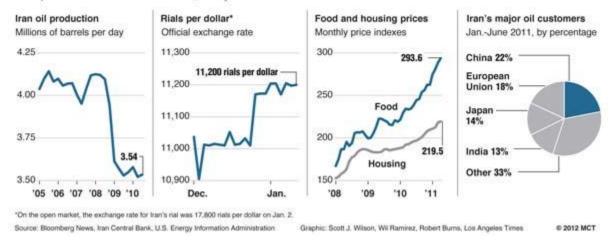
³⁴² http://www.nvtimes.com/2012/10/07/world/middleeast/iran-denies-report-of-plan-to-end-nuclear-standoff.html

 $[\]frac{343}{\text{http://www.washingtonpost.com/world/national-security/with-sabotage-charge-iran-takes-hostile-tone-with-unwatchdog/2012/10/07/c738fbbc-0f36-11e2-bb5e-492c0d30bff6\ story\ 1.html}$

Figure V.15: The Growing Pressure on Iran

Sanctions hurting Iran

Iran's oil production is falling, its currency weakening and inflation rising. The U.S. would like to see Iran's oil exports continue but hopes to limit the number of customers, so they can demand discounts and further cut revenue to Tehran.



Source: Chicago Tribune, "Graphic: Sanctions Hurting Iran",

http://www.chicagotribune.com/news/nationworld/sns-graphics-sanctions-hurting-iran-gx,0,3011693.graphic.

The Risks in a "Long Game"

So far, Iran seems to have back away from any military confrontation, but it far less clear what will happen if sanctions result in a prolonged confrontation or "long game." Iran has at least as much to lose as any other Gulf state if closes the Strait of Hormuz to oil traffic. It also cannot hope to win any serious long-term conflict with the US and its regional allies and would take devastating losses if the US escalated its strikes beyond the Gulf and the Iranian forces were directly involved in a conflict.

Iran can, however, put a wide range of less serious pressures on the follow of oil. As **Figure V.16** shows, Iran's threats and exercises helped raised crude oil prices during December 2011 and January 2012, but scarcely to new levels or ones that had a major practical impact on the US and other developed economies.³⁴⁴ Low level attacks, floating mines, new exercises, and other measures could put prolong pressures of shipping costs. Saudi Arabia and other oil exporting states might not be able to compensate for cuts in Iranian oil exports if a conflict were to completely eliminate them. The threat of far more serious Iranian escalation could be used to put pressure on oil prices without actual Iranian attacks, but Iran runs the risk of desensitizing the world to its threats and making them less effective over time. However, a desperate Iranian regime might escalate a conflict that disrupts world oil prices for at least several weeks.

A period of confrontation and/or sanctions that lasted for several years would give Iran time to steadily improve its options and tactics for asymmetric attacks and political warfare, as well as their domestic energy refining capabilities.

The EIA shows a far more serious surge in US short-term gasoline and crude oil prices in the spring of 2011 – driven by market forces – than during the period from September 2011 to late January 2012. See the graphs in EIA, "Petroleum and Other Liquids," http://www.eiagov/petroleum/, accessed January 21, 2012.

However, Iran would take risks of its own, and has no inherent advantages in playing the "long game." Continued Iranian antagonism and confrontation would inevitably strengthen US, European, and Southern Gulf resolve and support for sanctions. Iran would therefore pay a steadily higher cumulative cost as a result of sanctions over time and popular support for the regime may erode.

Furthermore, Iran's options for retaliating against sanctions and pressure are limited. On one hand, overt action will inevitably provoke US escalation and possible military strikes. On the other hand, covert action works slowly, and Iran has not proved that it can engage in covert activities effectively outside Syria, Lebanon, or Iraq. The bungled attacks on Israeli diplomats in the summer of 2012 do not prove the IRGC or Quds force is an effective covert unit. Iran cannot be certain it can ever use lower level asymmetric tactics without provoking the US and other states to escalate to a much higher level of conflict, or be certain it can control the course of events.

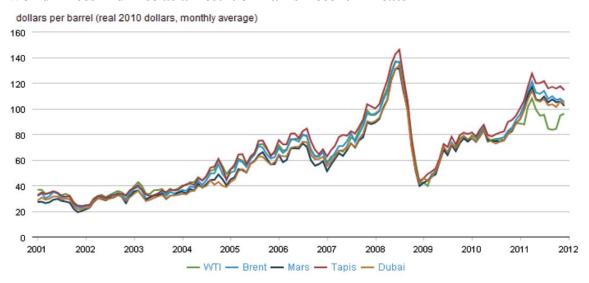
Israel may find it harder and harder to conduct a preventive strike over time as Iran disperses and hardens its facilities, and especially if it eventually deploys nuclear weapons. However, Israel has far more options in the near and mid-term to improve its nuclear forces and nuclear delivery options. Iran has already pushed Israel towards extending the range-payload of its missiles and options such as submarine delivered nuclear weapons. While Iran can improve its asymmetric forces and develop a nascent nuclear force, nations like Saudi Arabia and the UAE have already begun to build up their conventional capabilities at far faster rates that Iran. Iran cannot dismiss the possibility that its actions will provoke the US into offering regional nations "extended deterrence" or push Saudi Arabia towards developing its own nuclear option. Iran would also risk Israel or the US turning to preventive military strikes if sanctions fail to end Iran's nuclear weapons program and doing so with growing support from Iran's neighbors.

On an economic level, Iran would risk long-term shifts in investment and energy developments to other exporters, ranging for oil and gas development to pipelines and export facilities. A period of heightened sanctions and tensions between Iran and the West will also scare off investors such as China who see the stability of Gulf nations as a better bet for their money. In the short to mid-term, Iran may see its oil and gas export capacity decline because of a lack of technology, capital, and spare parts. In the long run, Iran's impact in creating sustained high price pressures might favor competition from gas fracturing and alternative liquids.

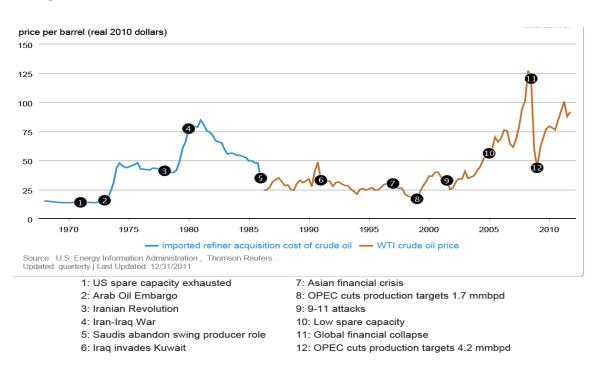
The other side of the coin is what happens if – and after – Iran tests a nuclear device or makes claims to have one that US, other Western, Arab, and Israeli intelligence experts confirm. Pakistan, North Korea, and India are all cases where major political efforts to halt their nuclear programs faded quickly after their nuclear capability became a fact and there was de facto acceptance. This may not be the case for Iran, but Iran is certainly aware that other states have not only won the "long game," but eventually benefited from it in terms of regional power, influence, and the ability to use nuclear capability as leverage in international politics. In contrast, a Libya whose regime gave up weapons of mass destruction is an example of exactly the opposite kind.

Figure V.16: Trends in Oil Prices

World Prices Did Rise as a Result of Iran's Recent Threats



But Crises, Weather, Speculation, and Economic Pressures Have Also Led to Massive Swings in the Past



Source: EIA, "What Drives Oil Prices," January 21, 2012, ttp://www.eia.gov/finance/markets/spot_prices.cfm

October 16, 2012

Sanctions and Arms Deals

As has been touched upon in Chapter III, arms sales are another way in which Iran and the US are competing in the Middle East. The US and its allies make use of the Nuclear Non-Proliferation Treaty, the inspection and reporting role of the International Atomic Energy Agency (IAEA), arms control treaties like the CWC, and conventions affecting the transfer of missiles with ranges above 300 kilometers (MTCR) to try and halt Iran's efforts to acquire nuclear armed missiles and other weapons of mass destruction.

The United States has pursued a two-pronged approach to controlling the balance of military power in the region. First, the US has relied on unilateral and UN sanctions to block arms sales to Iran. UN Resolution 1929 prohibits the sale to Iran of, "any battle tanks, armored combat vehicles, large caliber artillery systems, combat aircraft, attack helicopters, warships, missiles or missile systems or related materiel, including spare parts." 345

In addition to banning Iran's acquisition of nearly all major conventional weapons systems, the US has transferred weapons and technology to its Gulf allies. Between 2005 and 2009, the United States sold nearly \$37 billion worth of weapons and military equipment to Gulf nations, including Saudi Arabia, the United Arab Emirates (UAE), Bahrain, Qatar, Oman, and Kuwait. In 2010, the United States negotiated a \$20 billion arms package with a number of Gulf States as part of the Gulf Security Dialogue. Later that year, Saudi Arabia alone finalized an enormous arms deal with the United States that will total more than \$60 billion over the next 10 years. In 2011, US arms sales jumped to \$66.3 billion, with Saudi Arabia and other Middle East nations making up more than half of that figure.

Iran responded by turning to Russia and China in order to purchase military hardware. Since 1992, Russia has sold Iran hundreds of major weapons systems, including T-72 tanks, Tor-M1 missile systems, and a handful of combat aircraft like the MiG-29 and SU-24. The two countries signed a nearly \$1 billion deal in 2007 to supply Iran with five batteries of long-range S-300 air-defense missiles, which are similar to the US Patriot system. The S-300 system was a high priority for Tehran because it would have improved their ability to defend nuclear installations from attack.

³⁴⁵ UN Department of Public Information, "Security Council Imposes New Sanctions on Iran," June 9, 2010. http://www.un.org/News/Press/docs/2010/sc9948.doc.htm

³⁴⁶ Christian Science Monitor, "How Arms Deals are Shaping the Mideast," Kristen Chick, October 6, 2010, http://www.csmonitor.com/World/Middle-East/2010/1006/How-arms-deals-are-shaping-the-Mideast

³⁴⁷ Christian Science Monitor, "Blockbuster US Arms Sale to Saudi Arabia: Will it Deter Iran?" Anne Mulrine, September 21, 2010. http://www.csmonitor.com/USA/Military/2010/0921/Blockbuster-US-arms-sale-to-Saudi-Arabia-Will-it-deter-Iran

³⁴⁸ Lionel Beehner, "Russia-Iran Arms Trade," Council on Foreign Relations, November 1, 2006. http://www.cfr.org/iran/russia-iran-arms-trade/p11869

³⁴⁹The Times UK, "Russia Ratchets up US tensions with arms sales to Iran and Venezuela," Tony Halpin, September 19, 2008. http://www.timesonline.co.uk/tol/news/world/europe/article4781027.ece

³⁵⁰ Christian Science Monitor, Why Russia is cutting off major arms sales to Iran," Fred Weir, September 23, 2010. http://www.csmonitor.com/World/Europe/2010/0923/Why-Russia-is-cutting-off-major-arms-sales-to-Iran

The Russians, however, have begun to respond to international pressure to isolate Tehran. Russia delayed its delivery of the S-300 system in 2009 amid the "diplomatic reset" with the United States. After Russia voted in favor of the latest round of UN sanctions in 2010, Russia officially canceled the project and barred all future sales of sophisticated weapons to Iran. Russian Foreign Minister Sergei Lavrov said, "There are fundamental principles linked to the sale that we never, in accordance with our legislation, and according to our international obligations, take any actions that will lead to the destabilization of certain regions."

Supplying weapons to Iran was also beginning to hinder Russia's ability to upgrade its domestic military capability and purchase top-of-the-line arms from Western countries. Russia closed a deal in 2009 to purchase unmanned aerial vehicles from Israel and reached a \$1.52 billion deal in 2011 for France to supply them with two Mistral class helicopter carriers. ³⁵³ These were Moscow's first major foreign arms purchases in the two decades since the fall of the Soviet Union. ³⁵⁴

Moscow may currently value its relationship with Western arms and technology suppliers more than its weapons trade with Iran. The Russian Ministry of Defense is also hoping that displaying restraint with Tehran will convince Israel not to resume weapon sales to Georgia, which it discontinued at Moscow's request, after the outbreak of the 2008 South Ossetia War.³⁵⁵ In any case, the estimated value of new arms transfer agreements between Iran and Russia has dropped from \$1.6 billion from 2004-2007 to \$100 million from 2008-2011³⁵⁶

China, on the other hand has been a consistent supplier of conventional weapons to Iran, although it has largely complied with the Missile Technology Control Regime and limits on the export of nuclear-related technology. Dr. Bates Gill wrote in 1998 that "with the exception of Pakistan and possibly North Korea, China's arms trade with Iran has been more quantitatively and qualitatively comprehensive and sustained than that with any other country."³⁵⁷ China has been responsible for resupplying Iran during their war with Iraq, supplied Iran with cruise missile technology, and reportedly helped with the development of Iran's indigenous military-industrial sector.³⁵⁸

³⁵¹ Christian Science Monitor, "Why Russia is Cutting Off Major Arms Sales to Iran," Fred Weir, September 23, 2010

³⁵² The New York Times, "Russia Links Iran Arms Sale to Regional Tensions," February 24, 2010.

United Press International, "Russia, Israel sign spy drone deal," April 10, 2009. http://www.upi.com/Top_News/2009/04/10/Russia-Israel-sign-spy-drone-deal/UPI-52871239374884/

³⁵⁴ Reuters, "Russia, France sign Mistral helicopter deal," Alexei Anischuk, June 17, 2011. http://www.reuters.com/article/2011/06/17/russia-france-mistral-idUSLDE75G1K520110617

³⁵⁵ Richard Grimmett and Paul Kerr, "Conventional Arms Transfers to Developing Nations," Congressional Research Service, August 24, 2012. Pg. 44, 45

³⁵⁶ Richard F. Grimmett, "Conventional Arms Transfers to Developing Nations, 1993-2000," Congressional Research Service, August 2001, p. 28; and Richard F. Grimmett, "Conventional Arms Transfers to Developing Nations, 203-210," Congressional Research Service, August 2001, pp. 43-44.

³⁵⁷ Bates Gill, "Chinese Arms Exports to Iran," Middle East Review of International Affairs, Vol. 2, No. 2 (May 1998), 57.

³⁵⁸ Scott Harold, Alireza Nader. "China and Iran: Economic, Political, and Military Relations". RAND. Pg. 7

However, the volume of such traffic has dropped over time. China made over \$3 billion in arms transfer agreements with Iran from 1980-1987, supplied \$400 million worth of weapons from 1993-1996, \$600 million from 1997-2000, and \$300 million between 2004 and 2007. In the period from 2008 to 2011, China did not enter into any arms transfer agreements with Iran.

As talks stalled with Russia over delivery of the S-300 missile system, Iran reportedly looked to China, which had recently put a replica of the S-300 on the export market.³⁶⁰ The US, however, has consistently opposed Chinese military sales to Iran. Speaking with CNN in 2007, Under Secretary of State for Political Affairs Nicolas Burns pointedly stated that the US has "irrefutable evidence" that the Iranians were transferring arms to militants in "Lebanon, in Gaza, in Afghanistan, and in Iraq" in direct contravention of UN Security Council Resolution 1747, which bans Iranian arms exports.³⁶¹ John McConnell, the former Director of National Intelligence, testified to Congress that the PRC's arms sales in the Middle East were "destabilizing" and "a threat" to US forces.³⁶²

Faced with sanctions tightening its arms procurement abilities, Iran has begun investing in a nascent domestic defense industry. When the S-300 sale fell though, the Iranian military announced that it would upgrade existing S-200 systems to such a degree that they would be superior to the modern, Russian built technology.³⁶³

General Seyed Reza Taheri boasted in July 2011 that:

"The air defense systems' operational speed and range have been promoted thanks to the attempts made by our country's experts. We are witnessing a jump in this field when considering the previous models."

Iran may be able to develop a more robust arms development capability in the medium to long term, but their domestic capability in the near future is fairly limited. Iranian weapons developers focus primarily on modifying older technology and are therefore still heavily reliant on weapons imports. ³⁶⁵

However, Iran has made some progress. Theodore Karasik, a regional affairs expert at the Dubai-based Institute for Near East and Gulf Military Analysis, has said, "compared with five or 10 years ago, Iran seems to have made significant strides. They probably aren't fully self-sufficient

³⁵⁹ Richard F. Grimmett, "Conventional Arms Transfers to Developing Nations, 1993-2000," Congressional Research Service, August 2001, p. 28; and Richard F. Grimmett, "Conventional Arms Transfers to Developing Nations, 203-210," Congressional Research Service, August 2001, pp. 43-44.

 $^{^{360}}$ Iranian Press TV, "Russia 'Losing to China on Iran S-300 Quest,'" May 9, 2009. http://edition.presstv.ir/detail/94183.html

³⁶¹ CNN, "Iran arming Taliban, US claims," June 13, 2007. http://edition.cnn.com/2007/WORLD/asiapcf/06/13/iran.taliban/index.html

³⁶² Shirley Kan, "US-China Counter-Terrorism Cooperation: Issues for US Policy," Congressional Research Service, July 15, 2010. 36.

³⁶³ Fars News Agency, "Iran to develop new generation of S-200 air-defense missiles," November 14, 2010. http://english.farsnews.com/newstext.php?nn=8908231551

³⁶⁴ http://english.farsnews.com/newstext.php?nn=8908231551

³⁶⁵ Associated Press, "Iran showcases homegrown arms in war games," Ali Akbar Dareini, July 5, 2011. http://news.yahoo.com/iran-showcases-homegrown-arms-war-games-102403551.html

for defense needs, but they are moving in that direction." ³⁶⁶ Iran has shown a technical aptitude in the past by improving their arsenal and in September 2012 the Iranians displayed an optimized version of the S-200 air defense system with a range of 50km and a ceiling of 75,000 feet.

As Chapters III and IV have shown, however, Iran has a long way to go, and the new sanctions have had a major impact on the extent to which Iran can fund critical imports of arms, munitions, spare parts, military production equipment, and other technology. There are no reliable figures on the size of either Iran's total military-related imports – since so much dual use technology is imported and so many imports are disguised under false names or licenses. There are no meaningful public estimates of Iran's current military spending because the reporting of the state sector expenditures on almost every aspect of security is so distorted and cloaked for security reasons. US experts tentatively put the 2011 level at "well over" \$10 billion a year, but state this is little more than a guesstimate.

Similarly, work by Richard F. Grimmett of US Congressional Research Service estimates Iranian arms imports at \$700 million in current dollars from 2007-2010, as opposed to \$800 million in 2003-2006. He also estimates Iran's new arms agreements at a cripplingly low \$700 million in 2007-2010, compared with \$2,700 million in 2003-2006. The updated 2012 report revises these figures, estimating that Iran imported \$900 million worth of arms in 2004-2007 and only \$200 million in 2008-2011. These totals do not include major amounts of nuclear, dual use, military production-related, and "black" hidden imports; but they show that Iran's arms transfer agreements and black market imports can only give it a fraction of the amount that Gulf States are importing. It is clear that Iran is importing far too few weapons to modernize and sustain its forces. 367

Arms Control: Iran, Israel, and the WMD Free Zone

The US and other members of the P5+1 have long sought to use both sanctions and arms control it to limit Iran's nuclear programs. Iran, has attempted to combat this by championing a WMD Free Zone in the Middle East as a way of putting pressure on the US and Israel, gaining Arab support, and limiting Arab pressure on Iran over Iran's nuclear programs.

Efforts to Negotiate with Iran

While the US and Israel have both stated in different ways that Iran must not be allowed to have nuclear weapons, no state has announced fixed "red lines" that would trigger preventive attacks. However, during the UN General Assembly in late September, Israeli Prime Minister Benjamin Netanyahu appeared to suggest that if Iran were to produce enough 20% enriched Uranium; it would have crossed a "red line" and could face military action. But "unacceptable" has been a distinctly relative term that has evolved over time and it is that any limits that Iran agrees to as a result of sanction and negotiations must be tied to some form of arms control protocol and verification arrangement based on the capabilities Iran has at the time of the actual agreement, and what it can acquire in the future.

³⁶⁶ Associated Press, "Iran showcases homegrown arms in war games," Ali Akbar Dareini, July 5, 2011. http://news.yahoo.com/iran-showcases-homegrown-arms-war-games-102403551.html

Richard F. Grimmett, Conventional Arms Transfers to Developing Nations, 2003-2010, Congressional Research Service, R-42017, Washington, DC. September 22, 2011 pp. 43-44, 75-58

The history of past negotiations is complex, but the Arms Control Association has developed an excellent summary history that shows the pattern of negotiations to date. This history is shown in **Figure V.17.**

Figure V.17: Arms Control Association History of Official Proposals on the Iranian Nuclear Issue.

Spring 2003 Proposal

According to Tim Guldimann, former Swiss ambassador to Tehran, Iran issued a proposal to the United States in May 2003 calling for negotiations on a variety of contentious issues between the two countries. The document listed a number of agenda items that the two countries would negotiate and proposed the creation of three parallel working groups to carry out negotiations on disarmament, regional security, and economic cooperation. Key among the agenda items were:

- •Relief of all U.S. sanctions on Iran
- •Cooperation to stabilize Iraq
- •Full transparency over Iran's nuclear program, including the Additional Protocol
- •Cooperation against terrorist organizations, particularly the Mujahedin-e Khalq and al-Qaeda
- •Iran's acceptance of the Arab League's 2002 "land for peace" declaration on Israel/Palestine
- •Iran's full access to peaceful nuclear technology, as well as chemical and bio-technology
- The Bush administration dismissed the proposal in favor of placing additional pressure on Iran.

EU3-Iran Proposals

Several months later, France, Germany, and the United Kingdom agreed to discuss with Iran a range of nuclear, security, and economic issues as long as Tehran suspended work on its uranium enrichment program and cooperated fully with an investigation by the International Atomic Energy Agency (IAEA). However, that agreement unraveled the following year when Tehran continued work on uranium conversion, the precursor to enrichment. Iran then agreed with the EU3 in November 2004 to implement a more stringent suspension. Negotiations between the two sides began shortly afterward.

Iran presented four proposals during the course of these negotiations. In addition to Iran's nuclear program, the proposals covered subjects such as Tehran's support for terrorist organizations, regional security issues, and economic cooperation.

The Iranian proposals were as follows:

January 17, 2005

This Iranian proposal to the EU3/Iran Political and Security Working Group outlined commitments on both sides in general terms, including:

- •An Iranian commitment not to pursue weapons of mass destruction
- •A rejection of any attacks, threats of attack, or sabotage of Iran's nuclear facilities
- •Cooperation on combating terrorism, including intensifying the exchange of information and the denial of safe havens
- •Regional security cooperation, including on Iraq and Afghanistan
- •Cooperation on strategic trade controls and the EU removal of restrictions on transfers of conventional arms and dual use goods to Iran

March 23, 2005

The Iranian proposal to the EU3/Iran steering committee in March provided greater detail into the "objective guarantees" Iran was willing to discuss regarding its nuclear program, including:

- •Iran's adoption of the IAEA Additional Protocol and continuous on-site inspections at key facilities
- •Limiting the expansion of Iran's enrichment program and a policy declaration of no reprocessing
- •Immediately converting all enriched uranium to fuel rods
- •An EU declaration recognizing Iran as a major source of energy for Europe
- •Iran's guaranteed access to advanced nuclear technology along with contracts for the construction of nuclear plants in Iran by the EU
- •Normalizing Iran's status under G8 export controls

In April Iran's proposal repeated some of the items in the March proposal, but focused more on short-term confidence-building measures than long term resolutions. Its key terms included:

- •Iran's adoption of the IAEA Additional Protocol
- •A policy declaration of no reprocessing by Iran
- •Continued enrichment suspension for six months
- •Establishment of joint task forces on counter-terrorism and export control
- •An EU declaration recognizing Iran as a major source of energy for Europe

July 18, 2005

Iranian Message from Hassan Rowhani, then-Secretary of Iran's Supreme National Security Council, to France, Germany, and the United Kingdom. In his statement Rohani proposes:

- •An agreement on initial limitations on uranium enrichment at Natanz
- •Negotiations for the full-scale operation of Natanz
- •Arrangements to import material for uranium conversion and the export of UF6
- •Negotiation of an "optimized" IAEA monitoring mechanism for Natanz

In **August 2005** the three European countries presented their own comprehensive proposal for a long-term agreement, outlining the following:

- •Arrangements for the assured supply of low enriched uranium for any light water reactors constructed in Iran
- •Establishing a buffer store of nuclear fuel located in a third country
- •A commitment by Iran not to pursue fuel cycle technologies, reviewable after 10 years
- •A legally binding commitment by Iran not to withdraw from the NPT and Iran's adoption of the Additional Protocol
- •Arrangements for Iran to return spent nuclear fuel to supplier countries
- •EU recognition of Iran as a long-term source of fossil fuel energy
- •EU-Iran cooperation in a variety of political-security areas, including Iraq and Afghanistan, terrorism, and drug trafficking

Iran rejected that proposal days later, claiming that it did not recognize Iran's right to enrichment. Tehran proceeded with uranium conversion, breaking the suspension agreement with the EU3 and ending negotiations. In order to support Iran's talks with the EU, Russia proposed to Iran in October 2005 that Tehran share ownership of a uranium-enrichment plant located in Russia. Following months of discussions on that proposal, Iran ultimately rejected it in March 2006.

P5+1 Proposals

China, Russia, and the United States joined the three EU3 countries in June 2006 to offer another proposal for comprehensive negotiations with Iran. The proposal mirrored some of the previous offers for negotiations and included the following key points:

- •Iran's suspension of enrichment-related and reprocessing activities
- •The establishment of a mechanism to review this moratorium
- •Iran's resumption of the Additional Protocol
- •The provision of state-of-the-art light water reactors to Iran through joint projects, along with nuclear fuel guarantees and a 5-year buffer stock of fuel
- •Suspension of the discussion of Iran's nuclear program in the UN Security Council
- •Cooperation on civil aviation, telecommunications, high-technology, and agriculture, and other areas, between the United States, EU, and Iran

Tehran responded to this proposal in August 2006. It rejected the terms of the proposal due to its requirement that Iran suspend its enrichment-related activities, but noted that the proposal contained "useful foundations and capacities for comprehensive and long-term cooperation between the two sides." It did not, however, identify what those useful foundations were.

In March 2008, the P5+1 agreed to "repackage" the June 2006 proposal in order to specify some of the benefits that they would offer Iran as part of a long-term agreement on its nuclear program and to better demonstrate the nature of those benefits to the Iranian public. This agreement to revise the 2006 proposal coincided with the adoption of Security Council Resolution 1803, the third UN sanctions resolution on Iran.

Before that package was formally submitted to Iran, however, Tehran issued its own proposal to the six-country group. While the Iranian proposal also called for comprehensive negotiations leading to cooperation on nuclear energy, and political and economic concerns, it offered very few details regarding the steps Iran would take to resolve concerns related to its nuclear program. Some of its key provisions were:

- •"Establishing enrichment and nuclear fuel production consortiums in different parts of the world-including Iran"
- •Improved IAEA supervision "in different states"
- •Cooperation on nuclear safety and physical protection
- Cooperation on export controls
- •Cooperation on regional security and global economic issues

The P5+1 group presented their revised package during a June 2008 meeting in Tehran which included participants from five of the six countries, excluding the United States. During the meeting, the six-countries relayed an understanding that preliminary talks could begin under a six-week "freeze-for-freeze" period in which Iran would halt the expansion of its enrichment program while the six countries would agree not to pursue additional sanctions against Tehran. The proposal also entailed:

- •The 2006 package remains on the table
- •Consideration of nuclear energy R&D and treatment of Iran's nuclear program as any other NPT non-nuclear-weapons state once confidence is restored
- •Technological and financial assistance for Iran's nuclear energy program
- •Reaffirmation of the UN Charter obligation to refrain from the use and threat of use of force in a manner inconsistent with the Charter
- •Cooperation on Afghanistan, including drug-trafficking, refugee return, reconstruction, and border controls
- •Steps towards normalizing economic and trade relations, including support for WTO membership for Iran
- •Further details on the prospect for cooperation on agriculture, the environment and infrastructure, civil aviation, and social development and humanitarian issues

Representatives of the six-country group, including the United States for the first time, followed up the June meeting with a meeting in July 2008 in Geneva. At the meeting, Iran issued a non-paper proposing a process for negotiations, highlighting that such discussions would be "based on the commonalities of the two packages" issued by Iran and the P5+1 group in May and June. Both the P5+1 and Iranian proposals called for political, economic, and security cooperation but the Iranian proposal did not address steps that Tehran would take in regard to its nuclear program. The Geneva discussions were inconclusive.

Following the election of U.S. President Barack Obama, who sought to abandon the previous U.S. policy requiring Iran to fulfill UN Security Council demands to suspend nuclear fuel cycle activities prior to negotiations, the P5+1 sought to renew their negotiations with Iran. They issued a statement in April 2009 in which the other five countries welcomed "the new direction of U.S. policy towards Iran," formally inviting Iran to talks once again. Iran did not respond to that invitation until that September, when Tehran issued a revised proposal. Although that proposal repeated several of the provisions of the one Iran issued in 2008, it did not include a section on the nuclear issue. Instead, the proposal covered the following:

- •Cooperation to address terrorism, drug trafficking, organized crime, and piracy
- •UN and Security Council reform
- •The codification of rights for the use of space
- •Promoting a "rule-based" and "equitable" IAEA oversight function
- •Promoting NPT universality and WMD nonproliferation

October 16, 2012

Tehran Research Reactor "Fuel Swap" Proposal

In June 2009, Iran informed the IAEA that it was seeking assistance to refuel its Tehran Research Reactor (TRR), a U.S.-supplied 5 megawatt research reactor that produces medical isotopes. Following Iran's entreaty, the United States proposed that, in return for a supply of 120 kilograms of fuel for the TRR, Iran ship out an equivalent amount of uranium enriched to 4%, totaling about 1,200 kilograms. The 1,200 kilograms accounted for roughly 80% of Iran's LEU stockpile at that time, a percentage that diminished as Iran continued to produce LEU. At an initial meeting between the United States, France, Russia, Iran, and the IAEA October 1, 2009, Iranian officials agreed "in principle" to the exchange.

- •Iran exports 1,200 kilograms of LEU in a single batch before the end of the 2009
- •Russia further enriches Iran's LEU to about 20%, a process producing about 120 kilograms of 20%-enriched uranium for the TRR fuel rods
- •France manufactures the TRR fuel rods for delivery about one year after the conclusion of the agreement, prior to the depletion of the current TRR fuel supply
- •The United States works with the IAEA to improve safety and control implementation at the TRR

Following reservations expressed by Iran about the terms of the deal, the P5+1 indicated their readiness to take some steps to facilitate the arrangement:

- •A political statement of support by the six countries to guarantee that the TRR fuel would be delivered to Iran
- •Financing for the movement of LEU and fuel
- •An option for the IAEA to hold Iran's LEU in escrow in a third country until the TRR fuel is delivered

In the months following the initial agreement of the TRR proposal Oct.1, Iran delayed giving the IAEA and the P5+1 a definitive response to the proposal, with many prominent Iranian politicians voicing their opposition to the arrangement, motivated at least in part by their opposition to President Ahmadinejad. Iranian officials publicly suggested alterations to the fuel swap proposal, including: staggering the export of Iran's LEU over the course of a year or transporting 400 kilograms of LEU to Iran's Kish Island to exchange for TRR fuel. These proposals, however, undermined or eliminated the confidence-building nature of the export of the bulk of Iran's LEU. Tehran began to increase the enrichment level of some of its LEU to 20% in February 2010, ostensibly for TRR fuel.

Brazil, Turkey, Iran Tehran Declaration

Brazil and Turkey carried out a diplomatic initiative in the Spring of 2010 to broker the TRR fuel swap with Iran. In an April 20 letter to the leaders of the two countries, President Obama said Iran's agreement to export 1,200 kilograms of LEU "would build confidence and reduce regional tensions by substantially reducing Iran's LEU stockpile." The initiative resulted in the May 17 Tehran Declaration agreed between Presidents Lula da Silva, Erdogan, and Ahmadinejad.

- •The three countries "recall the right of all State Parties, including the Islamic Republic of Iran, to develop research, production and use of nuclear energy (as well as nuclear fuel cycle including enrichment activities)"
- •Iran transfers 1,200 kilograms of LEU to be held in escrow in Turkey within one month
- •Pending their approval of the Tehran Declaration, the IAEA, France, Russia, and the United States (the Vienna Group) would agree to provide 120 kilograms of 20%-enriched uranium fuel to Iran within one year
- •If the terms were not filled by the Vienna Group, Turkey would transfer the LEU back to Iran (which maintains legal possession of the material)

France, Russia, and the United States rejected the Tehran Declaration on a number of grounds identified in a June 9 letter to IAEA Director General Yukiya Amano. The key critique was that the declaration did not address Iran's production of 20%-enriched uranium and Iran's accumulation of a larger amount of LEU.

Russian Foreign Minister Sergei Lavrov first publicly proposed a "road map" to implement the P5+1's proposed incentives package July 12 during a speech in Washington. The specific details of the plan have not been made public, but they have been characterized as a "step-by-step" process in which confidence-building and transparency measures taken by Iran are met with an easing of sanctions by the P5+1.

- •Each side takes a series of reciprocal actions in four stages
- •Iran initially freezes the expansion of its enrichment program and limits enrichment to 5%
- •Iran gradually provides greater IAEA access to its nuclear program
- •Iran ultimately suspends enrichment for 3 months
- •The P5+1 gradually lifts UN sanctions
- •The P5+1 each gradually lift unilateral sanctions
- •The P5+1 implement the incentives identified in their 2006 and 2008 proposals

Other P5+1 members have not voiced public opposition to the Russian proposal, but some do not appear to support it in its current form. U.S. officials have said that Washington is studying the proposal, and have held meetings with Moscow regarding the plan. Similarly, Iran publicly welcomed the proposal but has been non-committal regarding its terms, claiming it would take several months to study.

2012 Proposals

In April 2012, the P5+1 and Iran renewed diplomatic negotiations in Istanbul. Two more rounds of talks were held May 23-24 in Baghdad, and June 18-19 in Moscow. The negotiators decided in Istanbul to adopt a step-by-step process with reciprocal actions, in order to create momentum towards a long-term solution. Two proposals are being discussed in the ongoing negotiations, one proposed by the P5+1 and another from the Iranians. Both sides agreed to expert-level talks, which took place in Istanbul on July 3, to discuss the technical aspects of each proposal. A fourth round of top-level political meetings has not yet been scheduled.

Iranian 5 Step Proposal

Step 1 - Guidelines

- •Iran emphasizes commitments under the NPT and its opposition to nuclear weapons based on the Supreme Leader's fatwa.
- •P5+1 recognizes and openly announces Iran's nuclear rights, particularly its enrichment activities, based on NPT Article IV.
- Step 2 Transparency Measures
 - •Iran continues broad cooperation with IAEA and will transparently cooperate with the IAEA on "possible military dimensions."
 - •P5+1 will end unilateral and multilateral sanctions against Iran outside of the UNSC resolutions.
- Step 3 Confidence Building Steps
 - •Beyond continuous IAEA monitoring of enrichment activities for Tehran Research Reactor (TRR) fuel, Iran will cooperate with P5+1 to provide enriched fuel needed for TRR.
 - •P5+1 will terminate the UN sanctions and remove Iran's nuclear file from UNSC agenda.
- Step 4 Strengthening Cooperation on Mutual Interests
 - •Parties will start and boost cooperation on: designing and building nuclear power plants and research reactors (Iran's priorities);
 - •And light water research reactors, nuclear safety and security, nuclear fusion (P5+1 priorities).
- Step 5 Strengthening Joint Cooperation
 - •Parties will start cooperating on: regional issues, especially Syria and Bahrain (Iran's priorities);
 - •And combating piracy and countering narcotics activities (P5+1 priorities).

P5+1 Proposal

Iranian actions:

- •Iran halts all 20 percent enrichment activities.
- •Iran transfers all 20 percent enriched uranium to a third country under IAEA custody.
- •Iran shuts down the Fordow facility.

P5+1 Actions:

- •P5+1 will provide fuel assemblies for the Tehran Research Reactor.
- •P5+1 will support IAEA technical cooperation to modernize and maintain the safety of the TRR.
- •P5+1 could review the IAEA technical cooperation projects and recommend to the IAEA Board restarting some of them.
- •P5+1 has put together a detailed package to provide medical isotopes for cancer patients in Iran.
- •The United States is prepared to permit safety-related inspection and repair in Iran for Iranian commercial aircraft and provide spare parts.
- •The P5+1 will cooperate in acquiring a light water research reactor to produce medical isotopes.

Source: Arms Control Association, "History of Official Proposals on the Iranian Nuclear Issue," *Contact:* Peter Crail, Research Analyst, (202) 463-8270 x102, http://www.armscontrol.org/print/2570

As **Figure V.17** shows, each major step in Iran's nuclear and missile progress – or the discovery of efforts Iran attempt to conceal – has tended to make some aspects of earlier arms control proposals obsolete. This does not mean, however, that the NNPT is ineffective or that the IAEA cannot produce credible verification if past agreements are updated and tailored to the circumstances that exist at the time. Groups like the Arms Control Association and ISIS have shown that there are still realistic options for Iran's compliance.³⁶⁸

Weapons of Mass Destruction (WMD) Free Zone

The danger is that real arms control can be deflected by the search for an impossible red herring. Iran has countered US and outside pressure to comply with the NNPT and IAEA inspections by denying and concealing its own activity while calling for a Weapons of Mass Destruction Free Zone in the Middle East, which attempts to refocus attention on Israel.

Iran has exploited the fact that Arab states have long called for a WMD free zone which exerts political pressure on Israel as the only state in the region with nuclear weapons but largely ignores their own chemical and biological weapons efforts. This gives Iran an opportunity to shift the debate to Israel, and forces the US to deal indirectly with Israel's current nuclear monopoly.

In 2010, The US, Iran and Arab nations agreed to call for UN talks in 2012 on a treaty to ban nuclear weapons from the Middle East.³⁶⁹ Under the treaty sponsored by the IAEA, permanent inspectors and surveillance technologies could be installed in the current or future civilian nuclear development programs of all twenty-two of the Arab League nations, plus Israel and Iran, backed by the threat of immediate sanctions and possible military action for any breaches of the agreement not to build weapons.³⁷⁰

Most Middle Eastern nations, have agreed to participate in the 2012 Conference. However, the three most important nations involved in any future Middle East WMD Free Zone are questionable. Israel has said it remains undecided about its participation; Iran may not attend if Israel does not, and Syria, embroiled in a bloody civil war, will most likely not attend or be of any help if it did.³⁷¹ And even if these nations do attend, it does not mean they will support a functional agreement that requires all states to establish verification regimes for all forms of WMD – chemical, biological, radiological, and nuclear – and probably for key possible delivery systems as well. Moreover, Israel repudiated the language of the 2010 NPT consensus agreement, which noted that Israel's entrance into the NPT would be part of the process of creating a WMD-free zone, forcing Israel to decommission its undisclosed nuclear arsenal as a result:

³⁶⁸ For an excellent analysis of the trade-offs, risks, and cost-benefits involved see David Albright, Paul Brannan, Andrea Stricker, Christina Walrond, and Houston Wood, "Preventing Iran from Getting Nuclear Weapons, Constraining its Future Nuclear Options," The Institute for Science and International Security, March 5, 2012, http://isis-online.org/

³⁶⁹ BBC News, "UN talks back conference on nuclear-free Middle East", May 29, 2010. http://www.bbc.co.uk/news/10185256

³⁷⁰ Time, "Is a nuclear-free Middle East a pipe dream?", Andrew Butters, September 23, 2009. http://www.time.com/time/world/article/0,8599,1925255,00.html

³⁷¹ http://www.thebulletin.org/web-edition/op-eds/unconventional-wisdom

This resolution is deeply flawed and hypocritical. It ignores the realities of the Middle East and the real threats facing the region and the entire world. It singles out Israel, the Middle East's only true democracy and the only country threatened with annihilation. Yet the terrorist regime in Iran, which is racing to develop nuclear weapons and which openly threatens to wipe Israel off the map, is not even mentioned in the resolution...as a non-signatory state of the NPT, Israel is not obligated by the decisions of this [NPT] Conference, which has no authority over Israel.³⁷²

Iran is almost certain to use the WMD free zone proposal to save face and maintain its ostensibly civilian nuclear program and, in exchange for the decommissioning of Israel's weapons, reassure the rest of the world that Iran isn't going to get the bomb either. It would also fit into their rhetoric of claiming the West holds a "double standard" that allows Israel to go unpunished for its reputed nuclear weapons arsenal.³⁷³

It would be desirable to have a WMD free zone agreement if it could be made real, tied to an Arab-Israeli peace, and an end to the growing arms race in the Gulf. The current climate of tension and military competition in the region preclude such an agreement, and this is certain to continue as long as Iran moves forward towards nuclear weapons and tensions drive an ongoing arms race.

As a result, proposals for a WMD free zone pose something of a dilemma to the US. Moreover, the risk in anything but a fully verifiable and enforceable agreement it might help keep a nation like Iran from openly acquiring nuclear weapons but not eliminate an ongoing effort to acquire all of the technology and equipment necessary to rapidly acquire the bomb in the future. The US must also risk choosing between rejecting the Arab position, or confronting Israel if it sides with Arab states – some of which who do not recognize Israel. So the US has been playing a delaying game on the issue.

Moreover, there is a wide range of other issues that make any effort to fully and effectively draft an agreement all side can trust extremely difficult:

- Iran's emphasis on its nuclear and missile programs, and the fact that its enrichment and other activities have already brought it to the nuclear threshold level progress it can now disperse and conceal and which vastly increases the problems in verification and inspection of both its activities and ability for a nuclear weapons "break out".
- The uncertainties surrounding the ability to verify an Iranian agreement to give up all aspects of its nuclear weapons-related research and development and ensure that there is no covert program. These concerns are heightened by the fact that Iran announced in February 2010 that it would construct ten new enrichment facilities. The head of Iran's nuclear program did announced in August 2010 that this plan had been cancelled, but IAEA reporting since that time notes Iran has not provided data to confirm this and cites its "lack of cooperation."
- Israel's perception of the need to maintain and improve the size and capability of its nuclear and missile forces, its monopoly or a decisive lead in such forces, and the near impossibility of being certain that Israel had actually given up every weapon: The "Nth weapon" problem.
- Negotiations that focus on Iran's nuclear program will be limited even if they are successful. Iran is building up its conventional long-range missile force, it is seeking to give them far more accuracy and terminal guidance which would allow them to be used against key point targets, and it is examining options

³⁷²The Prague Project, "A WMD-Free Middle East", Reid Pauly, February 24, 2011. http://www.pragueproject.org/2011/02/24/a-wmd-free-middle-east/

³⁷³ Kenneth Katzman, "Iran: U.S. Concerns and Policy Responses," CRS, 9 June 2011, p.34.

for similarly precise drones and long-range cruise missiles which could be used against critical targets as "weapons of mass effectiveness."

- Depending on the final course of negotiations and the following level of Iranian compliance in actual inspections. Iran can seek to maintain a nuclear weapons program by continuing to develop more efficient centrifuges, by carrying cover nuclear weapons design efforts including testing of weapons designs using non-fissile cores and flying or launching bomb and missile warhead designs and testing reliability and safety. It could make significant progress towards developing boost and thermonuclear weapons using such efforts. It might be able to create and conceal small chains of centrifuges; and make progress in small, more concealable, heavy water reactor designs.
- Iran remains a declared chemical and biological weapons power. It has years in which to develop better chemical weapons and a surge capability to produce and load them even if it appears to comply with the Chemical Weapons Convention. It has all of the research, development, and production equipment and technology for the production of advanced biological weapons. Unlike chemical weapons, such weapons can match or exceed the lethality of fission nuclear weapons, and there currently is no credible inspection or verification regime that could determine whether Iran was substituting a biological capability for a nuclear one.
- As Iran's recent military exercises in the Gulf show, Iran is also building up its capabilities for asymmetric warfare in ways that can threaten conventional navies and employ a wide range of tactics. It continues to use its Al Quds force, intelligence services, and diplomats to pose a growing threat to the Arab states and Israel, in addition to controlling an axis of influence that includes Iraq, Syria, and Lebanon. Iran is a sponsor of movements that might support it proxy attacks like the Hezbollah, some Shi'ite extremist groups in Iraq, and similar Hazara movements linked to the Al Quds force in Afghanistan.
- The lack of any real prospects for a full Arab-Israeli peace, and the uncertainties created by the political upheaval in the Arab world.
- Syria's history of covert nuclear programs.
- Pakistan's growing nuclear weapons production and potential export capability raising the threat of an
 outside supplier or forcing expansion of the arms control region to include Pakistan and India which
 would then have to accept a Chinese monopoly.
- Uncertainties regarding other weapons of mass destruction in Israel and Arab forces, and regarding the size and nature of their missile, chemical, and biological weapons programs.
- The prospect that biotechnology will advance enough in the region so that both Israel and major Arab states could develop effective genetically engineered or modified biological weapons.
- The steadily growing difficulty in creating convincing verification and inspection regimes that affect all of these interacting variables.

Some key participants in the process say that US preparations for 2012 are under way at a time the US is pushing for delay until 2013 or beyond.³⁷⁴ It is possible that the US is hoping sanctions will force Iran to end its program and give into the West's demand before any WMD-free zone comes into existence, allowing Israel to keep its supposed arsenal and giving the US a major diplomatic win.

At the same time, some Arab nations like Saudi Arabia have begun to consider creating their own nuclear programs to counterbalance a nuclear-armed Iran. A number of other Arab countries have expressed a growing interest in acquiring nuclear technology. According to the New York Times, Saudi Arabia is "scrambling to hire atomic contractors, buy nuclear hardware

³⁷⁴ Global Security Newswire, "Mideast WMD-free zone inches forward amid gripes about US role", Elaine Grossman, July 22, 2011. http://gsn.nti.org/gsn/nw_20110722_9247.php

and build support for a regional system of reactors [...]Egypt has announced plans to build one on its Mediterranean coast [...and] roughly a dozen states in the region have recently turned to the IAEA [...] for help in starting their own nuclear programs."³⁷⁵ According to King Abdullah II of Jordan, "The rules have changed."³⁷⁶

Most likely, little will happen at the 2012 summit. Israel will not give up its weapons if Iran still poses a threat, and Iran will not bow to Israeli demands to reduce their nuclear program. And member states – especially Israel, Syria, and Iran – will not agree to a framework that includes extensive weapons inspections in the absence of a wide-ranging peace accord between Israel and its neighbors or Iran and its rivals in the region.

Regime Change and Regime Modification

The US does compete with Iran by seeking regime change or modification in Iran, although the scale and nature of this US effort is often grossly exaggerated and the US has concentrated far more on regime modification than regime change. The US has focused on sanctions and diplomacy as means of altering the current regime's behavior rather than on changing the regime. Although, some experts seen the prolonged application of sanctions as a possible way to change Iran's regime, given the existing pressures on the Iranian people coming from election fraud, crackdowns on social behavior, corruption, repression and restrictions on normal social behavior, internal power struggles at the top of the regime, and economic problems.

There is no way to accurately list and assess past and current US efforts at regime change and separate fact from fiction. In general, the current Administration seems to feel that changes in Iran's regime must come largely from within as a result of action by the Iranian people. Many experts also feel that any direct or visible form of US support for regime change or for the opposition within Iran would be counterproductive.

Iranians are keenly aware of the West's past interventions in Iran. Every Iranian knows all too well that the US and Britain have actively intervened in Iranian affairs in the past. US and British involvement in Iranian politics stretches back to the World War II occupation of Iran and the CIA and British-backed overthrow of democratically elected Prime Minister Mosaddegh in 1953.

Iran's current leaders aggressively use Iran's history and Iranian nationalist fears of outside intervention to try to win domestic support. Moreover, much of Iran's current foreign policy is influenced by the desire to limit what Iranian clerics and officials view as corrosive foreign influence.

Rhetoric versus Reality

It is clear that the US has pursued a variety of different approaches to regime change or modification over the last decade. The George W. Bush Administration took a strong stand in favor of regime change – although this stand was more rhetoric than substance. In his 2006 State

³⁷⁵The New York Times, "Fearing Iran, Arab states seek nuclear power", William Broad, April 15, 2007. http://www.nytimes.com/2007/04/15/world/africa/15ihtnuke.1.5293038.html?scp=1&sq=Fearing%20Iran,%20Arab%20states%20seek%20nuclear%20power&st=cse

³⁷⁶ The New York Times, "Fearing Iran, Arab states seek nuclear power", William Broad, April 15, 2007. http://www.nytimes.com/2007/04/15/world/africa/15iht-nuke.1.5293038.html?scp=1&sq=Fearing%20Iran,%20Arab%20states%20seek%20nuclear%20power&st=cse

of the Union address, President Bush expressed his belief that "our nation hopes one day to be the closest of friends with a free and democratic Iran." ³⁷⁷

Some accounts suggest that President Bush went as far as to authorize covert operations to destabilize the regime, involving assistance to some of the ethnic-based armed groups in Iran.³⁷⁸ These reports reflect Iranian claims that the US backed unrest among Iranian Baluchis and covert support of violent opposition movements as a result of the Iran Freedom Support Act. This legislation authorized funding for the active promotion of democracy in Iran, and was debated in ways that gave the impression that the US might use the funds to directly seek the overthrow of the Iranian regime.³⁷⁹

There is no meaningful evidence, however, that the US actively backed Baluchi or any other violent Iranian opposition, or actively intervened internally in Iranian politics. The Bush Administration clearly realized the damage that any such action could do to Iranian dissidents and moderates if – as was inevitable – it became public.

President Obama initially took a more moderate public approach regarding regime change. The first major public manifestation of this vision for came in March 2009 during a message to the Iranian people on the occasion of Nowruz. He stated that the United States "is now committed to diplomacy that addresses the full range of issues before us, and to pursuing constructive ties among the United States, Iran, and the international community."³⁸⁰

He also referred to the country as "The Islamic Republic of Iran," a formulation that appeared to some to suggest that the US had accepted the regime and Islamic revolution, and was no longer seeking regime change. In concert with that approach, Obama Administration officials initially withheld overt support for hardline approaches, such as military action, although no options were explicitly "taken off the table." 382

The tone in Washington changed when Iran failed to respond to these overtures and hardened the belief that the regime would not become more moderate as nuclear talks stalled and Iran harshly put down protests in Tehran following the disputed 2009 election. The US reacted cautiously because of the fear that the Iranian regime would use US criticism to discredit moderates' demands for greater freedom and increased government accountability.

It quickly became apparent, that US restraint would not help. In December of 2009, President Obama addressed the protests in Iran and declared: "Along with all free nations, the United

³⁷⁷ Kenneth Katzman, "Iran: U.S. Concerns and Policy Responses," Congressional Research Service, June 9, 2011, p. 59.

³⁷⁸ABC News, "Bush Authorizes New Covert Action Against Iran," Brian Ross & Richard Esposito, May 22, 2007. http://blogs.abcnews.com/ theblotter/2007/05/bush_authorizes.html.

³⁷⁹ HR 6198, "Iran Freedom Support Act," The Library of Congress, September 30, 2006. http://www.gpo.gov/fdsys/pkg/BILLS-109hr6198rds/pdf/BILLS-109hr6198rds.pdf

³⁸⁰ The Washington Post, "Obama's Message to Iran," Thomas Erdbrink, March 21, 2009. http://www.washingtonpost.com/wp-dyn/content/article/2009/03/20/AR2009032000398.html

³⁸¹ Ibid

³⁸² Kenneth Katzman, "Iran: U.S. Concerns and Policy Responses," Congressional Research Service, June 9, 2011, p. 53-54.

States stands with those who seek their universal rights."³⁸³ Obama's 2011 Nowruz statement reflected this changing diplomatic approach, expressing criticism of the government in Tehran and support for insurgent pro-democracy movements. President Obama stated: "Just as the people of the region have insisted that they have a choice in how they are governed, so do the governments of the region have a choice in their response...So far, the Iranian government has responded by demonstrating that it cares far more about preserving its own power than respecting the rights of the Iranian people."³⁸⁴

This address was widely noted for its open support of Iranian protesters, its condemnation of abuses against specific, named dissidents, and absence of any renewed overture to Iran's leaders.³⁸⁵ Obama Administration officials did, however, stop short of publically calling for regime change.³⁸⁶ Moreover, no credible reports have surfaced of any form of US covert action against the regime.

The Obama White House appears to have remained cautious – in large part because it still feels new and visible US efforts would be used to discredit the Iranian opposition. Congress again took a stronger position. In 2011, legislation was introduced in the House of Representatives that called for the United States to: "deny the Government of the Islamic Republic of Iran the ability to continue to oppress the people of Iran and to use violence and executions against prodemocracy protestors and regime opponents" and to "to fully and publicly support efforts made by the people of Iran to promote the establishment of basic freedom, which build the foundation for the emergence of a freely elected, open, and democratic political system..." 387

The Impact of Iran's March 2012 Parliamentary Elections

It seems less likely that either popular unrest or the internal power struggles within Iran's regime will changes this situation in the near future. In March 2012, Iran held its first national election since the disputed presidential elections in 2009 and the large Green Movement protests that followed. The run-up to the March 2012 elections was quite unusual in that the contest was not between reformist and conservative elements as in the past. Rather, this election quickly became an unusually public referendum on President Ahmadinejad and his challenge of the Supreme Leader.

The dispute between rival factions of the conservative camp was over power, but more importantly, the direction the Islamic Republic has headed three decades after Khomeini's revolution. While some saw this internal division as the first signs of the regime's eventual downfall, Khamenei's overwhelming victory consolidated his control, strengthening his command over the parliament, judiciary, and security forces.

³⁸³ White House, Office of the Press Secretary. "Statement by the President on the Attempted Attack on Christmas Day and Recent Violence in Iran." December 28, 2009.

³⁸⁴ http://articles.cnn.com/2011-03-20/politics/iran.new.year 1 iranian-protests-obama-administration-islamic-revolution? s=PM:POLITICS

³⁸⁵ The White House Blog, "President Obama's Nowruz Message," Nikki Sutton, March 20, 2011. http://www.whitehouse.gov/blog/2011/03/20/president-ob ama-s-nowruz-message

³⁸⁶ Kenneth Katzman, "Iran: U.S. Concerns and Policy Responses," Congressional Research Service, June 9, 2011, p. 59.

³⁸⁷ Iranian Human Rights and Democracy Promotion Act of 2011, Library of Congress. http://www.gpo.gov/fdsys/pkg/BILLS-112hr1714ih/pdf/BILLS-112hr1714ih.pdf

As political tension between Ahmadinejad and Supreme became more overt in the lead up to the election, Supreme Leader Khamenei declared participation was religiously obligatory:

"On Friday's election day...the Iranian nation will give a slap harder than the previous ones in the face of [Global] Arrogance and will show its decisiveness to the enemy so that the front of Arrogance understands that it can't do anything when confronting this nation...All over the world, an enthusiastic election is the symbol of the nation being alive and [a symbol of] their will. Therefore, in any country in which there is vast popular participation in the election, it is a sign of their vigilance and their harmony with the regime..."

On March 1, 2012, conservatives easily won the vast majority of the parliamentary seats, winning 143 of 290 possible seats. Reformists, who largely boycotted the elections, won only 59 seats. More importantly, however, is the fact that pro-Khamenei candidates made considerable gains over those loyal to Ahmadinejad. Having contested the Supreme Leader's power, Ahmadinejad has found himself significantly weakened and marginalized in the aftermath of these elections.

Indeed, the following statements by Pro-Khatami loyalists since the March 1, 2012 elections suggest this trend had already begun:³⁸⁹

- "We were under circumstances in which the elected president acted against Islam, Imam Khomeini, and the interests of the state. He was even guilty in shedding the blood of hundreds of innocent martyrs...One can't say there was electoral fraud and that he came to power by fraud. There was no fraud. However, there was lack of knowledge. After that some events took place and we understood that we were mistaken [in our support to Ahmadinejad]." -Ayatollah Mohammad-Taqi Mesbah Yazdi
- "Ahmadinejad was not without guilt in the post-election events." -Abd al-Hossein Rouh-al-Amini, Development and Justice party Secretary General
- "Opposing the Resistance Front is opposition to original Islam." -Hojjat al-Eslam Mojtaba Mesbah Yazdi, advocating for one anti-Ahmadinejad party

Since that time, Ahmadinejad has ceased to contend for power, limiting his role largely to posturing and demoagoguing at forums like the UN. Accordingly, the question now becomes one of whether domestic Iranian politics will see enough popular opposition to Iran's nuclear efforts to matter over the coming months as the regime comes under increased scrutiny for its nuclear program, sanctions continue to take their toll on Iran's economy, and the conservatives dominate Iran's new parliament. By the spring and summer of 2012, Khamenei seemed to be is attempting to limit criticismn of his leadership by attacking President Ahmadinejad. By the fall, Ahmadinejad was being attacked by Supreme Leader's allies -- who accused him of everything from corruption to economic mismanagement and some of whom began to allege that his nuclear policies were the cause of UN, EU, and US sanctions. Khamenei seemed to be using Ahmadinejad as a scapegoat, hoping to pin Iran's growing social and economic problems on him during his last nine months in office as well as possibly marginalize the office of the presidency.

While Khamenei seemed to have consolidated his control of power, this raised the prospect it would come at an increasing cost. Once Khamenei assumed the office of Supreme Leader, following Khomeini's death in 1989, he was able to wield power without assuming accountability, allowing Iran's far weaker Presidents to take responsibility and blame for the country's problems.

³⁸⁸ "Iran News Round Up, February 29, 2012", AEI Iran Tracker, February 29, 2012.

³⁸⁹ "Iran News Round Up, March 1, 2012", AEI Iran Tracker, March 1, 2012.

This was the case during the presidential tenures of Rafsanjani, Khatami, and Ahmadinejad's first term. However, Khamenei's domination of the March 2012 parliamentary elections, attacks on Rafsanjani, and the impact of sanctions created a growing risk of eroding this carefully cultivated buffer between the Supreme Ruler and the ordinary citizen. To the point where he would be be held fully accountable by much of the population.

US Initiatives and Information Campaigns Over the Last Decade

There is no question that the US would like to see a different, and far more moderate and democratic regime in Iran, However, US has relied largely on information campaigns and the support of Iranian exiles to influence Iranian public opinion since the fall of the Shah, and faces the reality that any overt support of Iran's internal opposition could lead to serious backlash and lead many Iranians to support the existing regime. The same is true of most options for covert action. The US has limited practical leverage over internal events in Iran, and any direct support of Iranian dissidents would inevitably leak, discredit them, and do more harm than good.

The US has launched a series of initiatives over the last decade to promote opposition parties in Iran. Radio Farda ("tomorrow," in Farsi) began in October 1998 as a project of Radio Free Europe/Radio Liberty, in partnership with the Voice of America (VOA) and now broadcasts 24 hours a day. The VOA also established a Persian language service to Iran (VOA Persian Service) in July 2003.³⁹⁰ In July 2007, it was renamed Persian News Network (PNN), encompassing radio (1 hour a day or original programming); television (7 hours a day of original or acquired programming, rebroadcast throughout a 24 hour period); and Internet.³⁹¹

Since 2010, the Obama Administration has broadened the scope of its democracy promotion programs. In addition to the traditional efforts to fund journalists, human rights activists, visit programs, the Administrations has sought to work directly with individuals inside Iran who are organized around apolitical issues such as health care, the environment, and science. Washington has begun to "tweet" in Farsi as well as Arabic, and the Obama administration has made efforts to help the Iranian opposition circumvent government attempts to monitor or cut off communications. 393

According to the *New York Times*, the Administration has initiated a global effort to deploy "shadow" Internet and mobile phone systems that dissidents can use to undermine repressive governments that seek to silence them by censoring or shutting down telecommunications networks.³⁹⁴ Similarly, the State Department is financing the creation of stealth wireless networks that would enable activists to communicate outside the reach of governments; an effort with

³⁹⁰ Kenneth Katzman, "Iran: U.S. Concerns and Policy Responses," Congressional Research Service, June 9, 2011, p. 62.

³⁹¹ Kenneth Katzman, "Iran: U.S. Concerns and Policy Responses," Congressional Research Service, June 9, 2011, p. 62.

³⁹² Wall Street Journal, "U.S. Shifts Its Strategy Toward Iran's Dissidents," June 11, 2010.

³⁹³ Kenneth Katzman, "Iran: U.S. Concerns and Policy Responses," Congressional Research Service, June 9, 2011, p. 59.

³⁹⁴ The New York Times, "U.S underwrites internet detour around censors," James Glanz and John Markoff, June 12, 2011. http://www.nytimes.com/2011/06/12/world/12internet.html?pagewanted=all

clears implications for any Iranian opposition party.³⁹⁵ The US has taken a number of additional steps to aid Iranians' access to the internet by easing restrictions on Iranians to download free mass market US software and allowing exports of US software intended to circumvent Iranian internet restrictions.³⁹⁶

In December 2011, the US launched a "virtual embassy" in Iran, a website which was quickly blocked by Tehran amidst allegations that the US was attempting to recruit spies and foster internal regime change. US State department officials claimed that the site was merely an attempt to communicate to Iranians about their ability to secure student visas and explain US policy. It appears clear, though, that the effort was aimed at weakening support for the regime among young, technically-savvy Iranians. The President Nowruz message in March 2012 stated that the United States was seeking to help Iranians circumvent governmental restrictions on the internet and other media. These are only the latest US attempt to make pro-American media and resources available to populations inside Iran.

It is unclear that such US efforts are making progress in changing the nature or behavior of the Iranian regime; although they almost certainly help keep Iranian moderates and opponents of the regime informed and provide some outside support. There is still hope in Washington that the kind of protests that followed the last presidential election in Iran will lead to popular political upheavals. The evidence to date, however, indicates that the government in Tehran has successfully consolidated power after widespread uprisings in 2009 and a brief spat of protests in early 2011.

The March 2012 Iranian "election" for Iran's 290 seat parliament did not produce wide protests, in spite of the fact that any serious opposition candidates were barred from running and there were at least some abuses in counting the vote. The Supreme Leader also seems to have been able to push aside President Mahmoud Ahmadinejad's faction with comparative ease, and consolidate the power of the one main conservative faction.

There are few signs of any active challenges or divisions win the military, IRGC, Basij, or intelligence services. There have only been token signs of organized opposition since the two-year crackdown following the last Presidential election, the opposition consists largely of the clerics that have lost power, and polling data showed consistent popular support for Iran's nuclear programs through late 2011.

Yet, many political upheavals begin after years of repression and without warning. Expanded sanctions have impacted the Iranian economy and the life of most Iranians, and significant minorities within Iran appear disillusioned by the government in Tehran.³⁹⁷ This may force the regime to modify its position on the nuclear issue, and US should continue to position itself on the side of democracy and human rights. There is little evidence to date that the US should expect regime change, or that any covert program is likely to make substantial progress versus convincing many Iranians of America's hostile intent once it is exposed. Regime change from within, however, is at least possible.

³⁹⁵ The New York Times, "U.S underwrites internet detour around censors," James Glanz and John Markoff, June 12, 2011. http://www.nytimes.com/2011/06/12/world/12internet.html?pagewanted=all

³⁹⁶ Kenneth Katzman, "Iran: U.S. Concerns and Policy Responses," Congressional Research Service, September 5, 2012, p. 72-73

³⁹⁷ Kenneth Katzman, "Iran: U.S. Concerns and Policy Responses," Congressional Research Service, June 9, 2011,

The "Indirect Approach"

The best approach for the US may well be to let Iranians take the lead in whether to modify or change the regime. This does not mean abandoning strategic communications efforts that allow Iranians outside Iran to talk to Iranians inside Iran, information campaigns that prevent the Iranian government from distorting or concealing the realities surrounding issues ranging from economics to human rights, or strongly backing the efforts of the UN and outside human rights organizations.

It does mean avoiding political posturing and hollow calls for covert action, actual covert action that will inevitably be discovered and discredit the internal opposition in Iran, backing extremist cults like the MEK, and repeating the mistakes the US made in Iraq and Afghanistan in backing exiles that lack credibility and often do as much harm as good. The recent de-listing of MEK is an example of this political posturing and efforts by some voices to relyon outside rebel groups.

The MEK was listed as a terrorist group for a reason. It attacked and killed US officials during the 1970s, and carried a campaign of murderous terrorism in its power struggle with Khomenei. When it lost, it became the tool of Saddam Hussein until the US invasion of Iraq in 2003, and is now little more than a Rajavi cult with little influence in Iran and even less popularity. It played on Congressional politics to become delisted and effectively bribed a number of Us officials with high speaking fees in the process. Even if the US were to fund or provide it supplies, it lacks any significant popular support inside Iran and is known for joining with Iraq during the Iran-Iraq War and terrorist attacks against the Iranian government.

The US needs to consider whether it would do better in working with European and NGOs in strategic communications and decoupling the US as much as possible from the message – minimizing links between the US and its historical baggage – and calls for reform.

The US should, however, do far more to modify or change the regime in a different way. The US message to the Iranian people – and to any elements in the regime that want change and are willing to give up the dangerous elements of Iran's nuclear programs and behavior – should not focus so heavily on sanctions and the threat of war.

The US should make it clear both independently and in working with the P5+1 that there are strong incentives for Iran to give up its nuclear weapons related efforts and to establish better relations with the US. This includes a rapid end to sanctions, trade and investment incentives, easing of visa restrictions, and other measures that show the Iranian people and the regime that the US has clearly defined positive programs and goals that will benefit Iran. This does not mean abandoning either sanctions or the search for security, but it does mean trusting in the fact that the best way to both modify and change the regime is to create a climate where it cannot use the US "threat" to solidify the Iranian people.

The sanctions, while hurting the people more than the regime, are working, and working well. As the economic situation continues to deteriorate the regime may have to resort to increasingly heavy handed approaches to controlling the population's outrage at the economic situation. This has the potential to alter the regime internally, rather than imposed on it from an outside power.

Implications for US Policy

While the full effects of the most recent sanctions will not become apparent until late 2012 at the earliest, they already are cutting Iranian energy exports and revenues, and creating serious

banking and trade problems. Iran has made its frankest admissions to date that sanction are having a major impact. The Iranian Rial has become destabilized, and it fell to record lows in October as currency markets reacted to the prospect of more limited foreign trade. The Iranian government, the Iranian economy, and the Iranian people are already feeling the pressure.

The Iranian reaction has been mixed:

- On the one hand Iran's Foreign Minister did call for renewed nuclear talks with the West in January 2012 although, past history warns that Iran's negotiating efforts may be little more than another round of delay tactics and the status of the current negotiations does not do much to dispel this notion. This new call for diplomatic engagement is likely to be a ploy to buy time, and is a familiar part of the US-Iranian Strategic relationship.
- On the other hand, Iran has issued more serious threats to "close the Gulf" than in the past and Iran has carried out missile tests and military maneuvers. Iran's threats and exercises have also been followed by the announcement that it is creating a new, far better sheltered underground uranium enrichment facility at Qom and deploying much more efficient centrifuges.

As Chapters III and IV have discussed, the US must be ready for contingencies that could trigger a significant clash or conflict in the Gulf, Israeli preventive strikes, and even serious US military action that escalates to the point where the US might have to strike at Iran's overall base of asymmetric forces, conventional forces, nuclear technology, or missile forces. But while the US should pursue sanctions and diplomatic options, it must also begin to make hard longer-term choices regarding the possibility that sanctions and diplomacy may fail.

This means choosing between containment and preventive strikes, and doing so on the basis of the kind of classified analysis of future options that require full access to both intelligence and military planning data. The choice between bad options should always be as objective as possible, and based on the best information and modeling, and many of the key variables are now so highly classified that outside analysis is severely limited.

The Key Near-Term Choices for US Policy

In the near-term, the US needs to do everything it can to ensure that sanctions lead to successful negotiations. This means the US should pursue the following options:

- The US should Dodo everything possible to create UN, multilateral, and unilateral sanctions that are as effective as possible. The time for gradual approaches is over. If there is to be a peaceful outcome to this conflict, it must come before Iran tests a nuclear device or deploys a nuclear weapon. It must come before Israel takes preventive action, the region becomes locked into a nuclear arms race, or Iran creates a technology base so advanced that current IAEA inspection methods cannot detect a covert nuclear weapons program.
- Make it clear that the US and its allies offer Iran incentives to halt and reverse sanctions continuously. Show other countries that the US and the P5+1 offer Iran real incentives to halt illicit weapons related activities, and explain and justify sanctions in terms that nations in other regions can understand. Sanctions are not enough. Iran needs to see that the US and the rest of the 5+1 will offer incentives in terms of enrichment, fuel supplies, sanctions relief, in addition to trade, investment, and energy development. If sanctions are the "stick," the US must act to ensure that there are real and immediate carrots.
- Work closely with its European, Gulf, and Israeli allies. The US cannot assume its allies will follow if it does not communicate, consult, and treat them as partners. This is an area where the US must be transparent enough to convince the world it is not repeating the mistakes it made in going to war in Iraq, that it will not act precipitously, and it will listen as much as it attempts to lead.
- Make a convincing case to the Iranian people, its allies and the world that Iran is seeking to obtain nuclear weapons. It is not enough to cite IAEA reports and continue diplomatic pressure. The US must continue to

work with the IAEA and key allies to show the dangers in Iran's actions and make the threat it poses convincing. Explain how a crisis in the Gulf could threaten all countries – including the developing countries outside the region. Make the case through effective strategic communications and as objectively as possible.

- Use arms transfer efforts to supplement sanctions. The US must continue to ensure that China, Russia, and other nations will not from transfer advanced arms and military technology to Iran, nor any technology and equipment that could be used to develop nuclear weapons. In the past few years, Russian and Chinese arms transfers to Iran have dropped significantly, this needs to continue. At the same time, as is outlined in Chapter VI, it must would with its Arab Gulf allies and Turkey to give them a strong a mix of defenses and deterrents, help Israel the security needed to reduce the incentive for preventive strikes, and as is discussed in Chapter VII do what it can to make Iraq secure and a real security partner.
- Work with the UN, IAEA, and its allies to update the agreements necessary to ensure full compliance with a meaningful and verifiable agreement. It will not be enough for Iran to allay with the immediate concerns raised by the IAEA. It must be clear that any negotiation ends in a viable agreement.
- Avoid aggressive interference in the form of regime change, but support strategic communications from Iranian exiles and encourage internal movement towards moderation and democracy. Focus on regime modification when dealing with the nuclear issue and the threat in the Gulf, and leave regime change to Iranians.
- Attempt to prevent pre-emptive strikes from the Israelis which would stir up nationalism and a "rally around the flag" sentiment in Iran, improving the regimes chances at long term survival. An Israeli attack would not cause the Iranian people to blame their government or the nuclear program, it would instead cause an outpouring of nationalism and support for the government. As the new sanctions are beginning to take hold and people are angry at the government for its irresponsible economic policies, a pre-emptive strike would reverse the progress of the past few years.
- Support arms control in enforcing the NNPT and giving the IAEA the necessary tools and freedom of action as critical policy option. However, a weapons of mass destruction free zone has virtually no chance of being negotiated in a meaningful form for five reasons.

The Uncertain Result: Giving Diplomacy Priority While Preserving Security

Sanctions and diplomacy are the best of a bad (or at least highly uncertain) set of options, but it is far from clear that they will stop Iran's progress toward a nuclear weapons capability. Despite the lack of diplomatic progress, and the appearance that the Iranians are stalling for time, negotiations can still be successful. Negotiations can bring about long-term change in the US-Iranian relationship. But whereas failed negotiations could also be the beginning of years of intensive confrontation with Iran at every level.

The risks become higher as time goes on as and this aspect of US and Iranian competition turns into a "long game." So far, Iran has backed away from military confrontation, but it is far less clear what will happen if sanctions result in a prolonged confrontation. Iran has at least as much to lose as any other Gulf state if it halts oil traffic through the Strait. Iran also cannot hope to win any serious conventional conflict with the US and its Gulf allies, and will therefore attempt to use asymmetric means to confront the US.

Iran's increasingly belligerent statements and actions have already affected the price of oil. Oil prices rose around the world in February 2012 when Iranian officials responded to new European sanctions by halting exports to Britain and France. Two days later, the head of the Iran's armed forces, Mohammad Hejazi, hinted at Iranian preemptive action, stating, "Our strategy now is that if we feel our enemies want to endanger Iran's national interests...we will act without waiting for their actions."

If a period of confrontation and sanctions lasted for several years, there may be a lasting increase in oil prices and pressure on the world economy. This period of time will also allow Iran time to steadily improve its asymmetric capabilities and political warfare. And if Iran did complete a nuclear weapon during this time, it may lead many nations to abandon sanctions or aggressive posturing in fear of Iranian retaliation.

Iran will have to take risks of its own, and has no inherent advantages in playing the "long game." Hostile Iranian actions and Iran's movement towards a nuclear weapons capability would probably strengthen the US's, European's, and Southern Gulf state's resolveand support for sanctions. Iran would pay a steadily higher cumulative cost as a result of sanctions over time, and popular support for the regime will most likely continue to erode In addition, Iran cannot be certain that the use low level asymmetric tactics can be used without provoking the US and other states to escalate the conflict economically or militarily. Nor does Iran hold escalation dominance, which risks a spiral escalation, leading to the destruction of Iran's military forces and other assets.

Rising pressure on Iran can lead it to take risks, and exercise the kind of military options describe in Chapters III and IV. Limited or demonstrative military actions can become serious clashes and accidents can escalate into war. At the same time, Iran's progress towards a nuclear weapons capability may lead Israel to carry out preventive strikes, which will force the US to choose between launching its own strikes to "finish the job" or doing nothing and wasting an opportunity to set back the nuclear program for a longer period of time. "

The end result is that the US, its Arab allies, and Israel, may face years of continuously stringent over sanctions, energy exports, and arms controls that results in increasing confrontation with Iran. What today is defined as a "crisis" may become an enduring reality that can only be contained by close cooperation between the US and its allies and may only end with regime change in Iran.

Negotiations that focus on Iran's nuclear program will be limited even if they are successful. Iran is building up its conventional long-range missile force, it remains a declared chemical and biological weapons power, and is a sponsor of Hezbollah. As its recent exercises in the Gulf show, Iran is also building up its capabilities for asymmetric warfare in ways that can threaten conventional navies and employ a wide range of tactics. It continues to use its Al Quds force, intelligence services, and diplomats to pose a growing threat to the Arab states and Israel, in addition to controlling an axis of influence that includes Iraq, Syria, and Lebanon.

This means that a continued focus on sanctions and arms control efforts must be supported by the continued development of military capabilities to deter and contain Iran. The US should preserve and enhance its ability to use force against Iran. The US and its allies should make it clear to Iran that if it conducts nuclear tests, is found to be assembling nuclear weapons, or deploys a nuclear weapon will justify the use of military force.

The US and its allies should also find ways to warn Iran that any major Iranian effort to "close the Gulf," or a large-scale clash between Iran and the US or its allies could lead to escalating military action.

At the same time, the need to deter and contain Iran while sanctions and negotiations are still a somewhat viable option is very different from giving military options a priority. The real world political and strategic results of replacing sanctions and diplomacy with the use of force are so

unpredictable, and the risks are so high, that force must be a last resort. The use of force will likely end any chance of diplomacy for the life of the Islamic Republic as a sovereign entity and will usher in a period of containment analogous to the Cold War. Application of military force will also convince the Iranian regime that nuclear weapons are required in order to prevent future attacks and will redouble their efforts to produce a weapon. A military strike will only buy a few years of a nuclear free Iran. Therefore, such action should only be taken if it becomes clear that Iran's regime has reached such ideological extremes where it cannot be deterred or that there is evidence Iran will produce and quickly use a nuclear weapon.

October 16, 2012