### 1NC

#### Debt ceiling compromise likely now but uniqueness doesn’t overwhelm the link---the impact is economic collapse

Klein 1/2 Ezra is a politics writer for the Washington Post. “The lessons of the fiscal cliff,” 2013, <http://www.washingtonpost.com/blogs/wonkblog/wp/2013/01/02/the-lessons-of-the-fiscal-cliff/?wprss=rss_ezra-klein>

There is a narrative in American politics that goes something like this: The White House can’t negotiate. House Republicans can’t be reasoned with. And so the country is caught between pragmatists who can’t hold their ground and radicals who can’t compromise.¶ The last few days complicate those narratives. The White House didn’t hold firm on their promise to let the Bush tax cuts expire for all income over $250,000. They agreed to a $450,000 threshold instead. But at the same time, they pocketed more than $600 billion in revenue, $30 billion in extended unemployment benefits and five years of stimulus tax credits without giving up any real spending cuts. ¶ Speaker John Boehner, negotiating on behalf of House Republicans, rejected the White House’s offers for a bigger deal that included big spending cuts and watched his “plan B” die on the House floor. But, with the support of many of his members, he ended up shepherding the McConnell-Biden package towards final passage. Republicans realized they couldn’t be blamed for pushing the country over the cliff. ¶ The question of who “won” the fiscal cliff won’t be answered till we know what happens when Congress reaches the debt ceiling. The White House says that there’ll be no negotiations over the debt ceiling, and that if Republicans want further spending cuts, their only chance is to hand over more tax revenue. If they’re right and they do manage to enforce a 1:1 ratio of tax hikes to spending cuts in the next deal, they’re going to look like geniuses.¶ Republicans swear they are crazy enough to push the country into default, and they promise that the White House isn’t strong enough to stand by and let it happen. If they’re right, and the White House agrees to big spending cuts absent significant tax increases in order to avert default, then Republicans will have held taxes far lower than anyone thought possible.¶ But both Republicans and Democrats can’t be right. If we take the lessons of this negotiation, here’s what will happen: The White House will negotiate over the debt ceiling. They’ll say they’re not negotiating over the debt ceiling, and in the end, they may well refuse to be held hostage over the debt ceiling, but the debt ceiling will be part of the pressure Republicans use to force the next deal. The White House fears default, and in the end, they always negotiate.¶ That said, the Republicans aren’t quite as crazy as they’d like the Democrats to believe. They were scared to take the country over the fiscal cliff. They’re going to be terrified to force the country into default, as the economic consequences would be calamitous. They know they need to offer the White House a deal that the White House can actually take — or at least a deal that, if the White House doesn’t take it, doesn’t lead to Republicans shouldering the blame for crashing the global economy. That deal will have to include taxes, though the tax increases could come through reform rather than higher rates.¶ The Republicans also have a problem the White House doesn’t: The public broadly believes they’re less reasonable and willing to negotiate than the Democrats are. The White House has a reputation for, if anything, being too quick to fold. They have more room to avoid blame for a default than the Republicans do. In the end, if the White House holds its ground, Republicans will likely compromise — though only after the White House has done quite a bit of compromising, too. ¶ The final moments of the fiscal cliff offered evidence that both sides see how this is going to go. In his remarks tonight, President Obama signaled he would hold firm on the debt ceiling. “While I will negotiate over many things, I will not have another debate with this Congress over whether or not they should pay the bills they’ve already racked up through the laws they have passed,” he said. And Boehner signaled that he knows tax reform will have to be part of the next deal. The post-deal press release his office sent out had the headline, “2013 Must Be About Cutting Spending and Reforming the Tax Code.” That said, the final days of the fiscal cliff, in which the deal almost broke apart a half-dozen times for a hal-dozen reasons, is a reminder that these tense, deadline negotiations can easily go awry. And so there’s a third possibility, too: That the White House is wrong about the Republicans will compromise, that the Republicans are wrong that the White House will fold, and so we really will breach the debt ceiling, unleashing economic havoc.

#### It’s top of the docket, PC is key, and it’s Obama’s sole focus

John Feehery 1-2, President of Communications and Director of Government Affairs for Quinn Gillespie and Associates, 1/2/13, “The Clock,” <http://www.thefeeherytheory.com/2013/01/02/the-clock/>

The small tax agreement passed by the House last night makes it harder for Obama to do other things with his time in the White House. ¶ That is the inevitable truth that seems lost on conservatives who opposed a deal to make permanent 98% of the Bush tax cuts. ¶ Mitch McConnell is a master at clock management, and as minority leader, his job is to make it as hard as possible for the President to enact his left-wing agenda. ¶ As I wrote yesterday, McConnell was the master strategist who decided that the Congress would deal first with taxes and then with spending. ¶ Conservative leaders (well, the ones most desperate to raise money attacking Republicans) are professionally apoplectic. They can’t believe that Republicans didn’t get any spending cuts included in this deal, after they torpedoed John Boehner’s plan which included massive spending cuts and popular tax provisions. ¶ But Plan C wasn’t designed to include spending cuts, you blithering idiots. That comes later, in the fight over the debt limit. ¶ The President has already declared that the debt limit is off the table, but of course, we all know that he is posturing**.** Nothing is off the table, and the fact of the matter is that Republicans need to come up with substantial spending cuts if they are to gain the respect of their political base. ¶ After the fight on the debt limit will come a fight on sequester. After the fight on the sequester will come a fight on the 2013 Appropriations bills. ¶ All of these fights will take the time and attention of the President himself. All of these fights will take political capital and energy and promises. By focusing on the budget issues, Republicans make it harder for the President to focus on other things, like immigration and gun control, and whatever crazy left-wing agenda items he might want to add to the list. ¶ Imagine if last night, the grand bargain came together, and Republicans and Democrats cleared up everything in one vote. The President wouldn’t have high-fived the Speaker and said, “my job is done here.” ¶ He would have moved on to gun control. He can’t do that now. Now he has to talk exclusively about the debt limit. He has to burn up political capital on an issue that dove-tails quite nicely with out-of-control spending. ¶ The clock is running out on the Obama White House, and the more time we talk about fiscal issues, the less time he has to get his left-wing agenda through the Congress.

#### Plan’s massively unpopular---no risk of a link turn

Annie Snider 12, E&E reporter, 1/16/12, “Pentagon still can't define 'energy security,' much less achieve it,” http://www.eenews.net/public/Greenwire/2012/01/16/1

But this is not a good time to be requesting money at the Pentagon. ¶ Military budget planners have spent the past year carving nearly a half-trillion dollars in budget cuts, while top brass have worn out the thesaurus' list of synonyms for "decimate" as they decry the damage that additional looming cuts would do to their forces and weapons. ¶ At the same time, no one has yet made the business case for investing in energy security. Current rules require that renewable energy and efficiency projects prove they will bring savings over the long run, even if they carry an added security benefit. In fact, because the Pentagon operates on a five-year budget cycle, projects that pencil out to great investments over the long term often get turned down because they register to the budget as a near-term loss. ¶ Microgrids are still in the pilot phase and the military has not yet decided what the business model will be for them. Because the technology would help energy managers use power more efficiently on a day-to-day basis, for instance by bringing unnecessary loads offline during peak demand times, some officials say microgrids may be able to create enough savings to pay for themselves. Not all of industry is convinced, though, and a group of business executives will be suggesting financial models to Robyn's office in a report this spring. ¶ Ultimately, many say the military is going to have to decide what "secure energy" is worth to it if it wants to fix its vulnerabilities. ¶ "Until someone establishes the value of energy security, I only have the business case to rely on, because right now the value of energy security is apparently zero," said Dan Nolan, a retired Army colonel who writes a defense energy blog. ¶ The Navy has made a rough attempt to do this for its Surface Warfare Center in Dahlgren, Va. Like many military installations, the base sits at the end of the power line. Last year it lost electricity 11 times. ¶ Capt. Kenneth Branch, the commander for Naval Facilities Engineering Command Washington, estimates that the two days the center was without power during Hurricane Irene this summer cost it $60,000. ¶ "That's just lost industrial productivity," he said, noting that the numbers helped him justify infrastructure investments. "I also spend a lot of money on my labor trying to figure what were the problems and get back up and online." ¶ A fuller accounting could also count the costs associated with backup generators, including labor required for maintenance, the price of buying and transporting fuel, and the risk of failure. ¶ Pentagon officials say they are beginning to think through some of these calculations, but nobody is sure yet whether extra money would follow. ¶ "If the military is really serious about this, are we going to have to spend some dedicated funds on energy security?" the Army's Kidd said. "I don't know the answer to that, but I think those are the questions we need to start to ask." ¶ Looking to Congress¶ Ultimately, the answers to those questions will come from Capitol Hill, where lawmakers have been bitterly divided on energy policy. ¶ Indeed, a military energy issue that has become a symbol of the larger energy policy debate was one of the final points to be resolved in last month's congressional budget deal. Republicans mounted an effort to exempt the military from a 2007 ban on purchasing fuels like liquefied coal that have a higher greenhouse gas content than traditional petroleum, but in the end they acquiesced, leaving the ban intact.

#### Global economic crisis causes nuclear war

Cesare Merlini 11, nonresident senior fellow at the Center on the United States and Europe and chairman of the Board of Trustees of the Italian Institute for International Affairs, May 2011, “A Post-Secular World?”, Survival, Vol. 53, No. 2

Two neatly opposed scenarios for the future of the world order illustrate the range of possibilities, albeit at the risk of oversimplification. The first scenario entails the premature crumbling of the post-Westphalian system. One or more of the acute tensions apparent today evolves into an open and traditional conflict between states, perhaps even involving the use of nuclear weapons. The crisis might be triggered by a collapse of the global economic and financial system, the vulnerability of which we have just experienced, and the prospect of a second Great Depression, with consequences for peace and democracy similar to those of the first. Whatever the trigger, the unlimited exercise of national sovereignty, exclusive self-interest and rejection of outside interference would self-interest and rejection of outside interference would likely be amplified, emptying, perhaps entirely, the half-full glass of multilateralism, including the UN and the European Union. Many of the more likely conflicts, such as between Israel and Iran or India and Pakistan, have potential religious dimensions. Short of war, tensions such as those related to immigration might become unbearable. Familiar issues of creed and identity could be exacerbated. One way or another, the secular rational approach would be sidestepped by a return to theocratic absolutes, competing or converging with secular absolutes such as unbridled nationalism**.**

### 1NC

#### The United States Federal Government should substantially increase investment in smart microgrid technology for

#### [installations the plan applies to]

#### via a diverse portfolio tailored to individual installation circumstances, including non-nuclear renewable energies for on-site generation, increased backup generation capacity, improvements in energy efficiency and energy storage, intelligent local energy management, and accelerated implementation of the SPIDERS project.

#### Smart microgrids solve DOD grid vulnerability---the combination of the CP’s mechanisms resolves the problems with each individual component

SERDP 12 – the Strategic Environmental Research and Development Program, DoD’s environmental science and technology program, executed in partnership with DOE and EPA, 7/10/12, “DoD Study Finds Microgrids Offer Improved Energy Security for DoD Installations,” http://www.serdp.org/News-and-Events/News-Announcements/Program-News/DoD-study-finds-microgrids-offer-improved-energy-security-for-DoD-installations

Advanced microgrids offer a cost-effective solution to military installations' growing vulnerability to the fragile electric grid, according to a study released today by DoD’s Office of Installations and Environment. The study performed by MIT Lincoln Laboratory looked at different microgrid architectures and characteristics and compared their relative cost-effectiveness. The report provides insight into increasing energy security and reducing energy costs through the incorporation of renewable energy resources into microgrids, as well as new market opportunities for DoD in the area of demand response and ancillary services.

The study highlights the extent of ongoing microgrid work across DoD. It identified 44 installations that either had existing microgrids, planned installation of microgrids, or conducted microgrid studies or demonstrations at their facilities. The authors interviewed more than 75 people from the military Services, the Office of the Secretary of Defense, and the Department of Energy. The analysis categorized the ongoing microgrid efforts based on several key attributes including size, maturity, the inclusion of renewable resources, and the ability to operate in a grid-tied manner.

The analysis confirms the value of microgrids to DoD. The combination of on-site energy generation and storage, together with the microgrid’s ability to manage local energy supply and demand, allow installations to shed non-essential loads and maintain mission-critical loads if the electric grid is disrupted.

The report illustrates the largely untapped potential of moving to smarter, next generation microgrids that would accommodate far greater penetration of renewable energy sources, as well as tighter integration with the electrical grid. If solar resources that are increasingly being installed on DoD installations were available during islanded operation of a microgrid, they could significantly extend the islanding time. Moreover, a microgrid that could operate when tied to the grid would offer new opportunities for the DoD to generate cost savings by using backup generation assets during normal operation and generate financial revenue by using advanced ancillary services.

One important finding is that there will be no “one size fits all” solution. The location of a military installation influences the options available for energy generation sources, the options available for interaction with the local utility, the characteristics of the local electricity market, and the regulatory environment. The most effective microgrids will be those that take into account the needs of the local commercial electric grid and are configured so that they can earn value helping to meet those needs.

#### SPIDERS will produce effective renewable-based microgrids that guarantee communications and control survive grid outages

Robert K. Ackerman 12, SIGNAL Magazine, February 2012, “Military Energy Enters SPIDERS Web,” http://www.afcea.org/content/?q=node/2877

No man may be an island, but each U.S. military base may become an energy island if a joint project among the Department of Energy, the Department of Homeland Security and the Defense Department comes to fruition. The effort aims to develop a microgrid that would supply a base with internal power independent of any external source that might fail as a result of enemy action.

Network security would be a key element of this energy microgrid. Facing the possibility of a cyberattack on the nation’s power grid, military bases must be able to sustain internal power with a degree of immunity from the online tactics employed by cybermarauders.

This program also seeks to blend a host of conventional and alternative energy sources into a single entity that would respond seamlessly to internal base power demands. Complicating the endeavor to link these energy sources is the requirement to provide secure network control that could interoperate with the public power grid but still be immune to cyberthreats that menace the larger network.

Known as the Smart Power Infrastructure Demonstration for Energy Reliability and Security, or SPIDERS, the project is a Defense Department joint capability technology demonstration (JCTD). It already is underway at Joint Base Pearl Harbor-Hickam, Oahu, Hawaii, and later phases will evaluate progressively sophisticated systems at Fort Collins, Colorado, and Camp Smith, Hawaii.

Melanie Johnson, an electrical engineer with the Army Corps of Engineers Construction Engineering Research Laboratory, explains that SPIDERS is designed to develop a template for bringing microgrid technology to military installations in the United States. Its success would have implications for installations outside the United States, particularly in operational settings, she points out.

Part of the SPIDERS technical management team, Johnson explains that a key element in SPIDERS is to provide network security for the communications and control systems within that microgrid environment. That security would be vital if a base loses power because of a cyberattack on the local power grid.

What sets SPIDERS apart from other microgrid efforts is its emphasis on cybersecurity and network communications. Security is a primary SPIDERS objective, Johnson says, adding that this includes information assurance certification and implementing emerging standards from the National Institute of Standards and Technology (NIST), the North American Electric Reliability Corporation (NERC) and Department of Energy organizations.

Adding cybersecurity to the microgrid complicates the picture and requires “a little critical thinking,” Johnson observes. However, SPIDERS is not employing the traditional approach of first developing a control system and then overlaying security. Instead, security will be integrated into the system as it is developed. The result will be a comprehensive security solution that is tailored to the system, she offers.

The microgrid control system continually will monitor power quality and conditions in the regional power grid. If it detects instability or significant quality issues, it can alert monitors who would decide to disconnect the base from the external grid. The microgrid would continue to provide power to critical missions.

Johnson shares that planners are examining the relationship between the interface with the microgrid control system and the base’s enterprise network. Of particular interest is how that relationship would open the microgrid to vulnerabilities from outside the installation. Issues include the types of communications traffic that would be allowed in and out of the microgrid control system network.

According to its guidance, SPIDERS’ primary objectives are to protect task-critical assets from power loss due to cyberattack; integrate renewable and other distributed generational electricity to power task-critical assets in times of emergency; sustain critical operations during prolonged power outages; and manage installation electrical power consumption to reduce petroleum demand and carbon footprint.

SPIDERS will exploit existing energy assets such as solar arrays, wind generators and other renewable technologies as well as diesel generators to provide electricity more efficiently than if backup diesel generators alone were used. Renewable energy generators remain online constantly, providing electricity from alternate sources during opportune conditions such as windy or sunny days. Johnson points out, however, that most renewable energy resources trip offline when the main grid crashes. The microgrid allows the renewable power to stay online while maintaining necessary safety measures.

The program might tweak the bases’ energy sources by upgrading a legacy generator that lacks the necessary capacity, for example. Otherwise, it will focus on existing assets. Johnson emphasizes that SPIDERS will be energy-source agnostic.

### 1NC

#### U.S. coal exports to China are low, but downward pressure on domestic demand expands them massively

Bryan Walsh 12, Senior Editor at TIME, May 31, 2012, “Drawing Battle Lines Over American Coal Exports to Asia,” online: http://science.time.com/2012/05/31/drawing-battle-lines-over-american-coal-exports-to-asia/

But across the Pacific Ocean, the demand for coal has never been hotter, with China burning 4.1 billion tons in 2010 alone, far more than any other country in the world. That insatiable demand forced China in 2009 to become a net coal importer for the first time, in part because congested rail infrastructure raised the cost of transporting coal from the mines of the country’s northwest to its booming southern cities. In April, Chinese coal imports nearly doubled from a year earlier. Right now Australia and Indonesia supply much of China’s foreign coal. U.S. coal from the Powder River Basin could be a perfect addition to the Chinese market. Montana and Wyoming are just short train trips to ports on the Pacific Northwest coast, and from there it’s a container ship away from Asian megacities where coal doesn’t have to compete with cheap natural gas and air-pollution regulations are far weaker than in the U.S. To a wounded Big Coal, China is a potential savior.¶ As I write in the new edition of TIME, there’s just one problem: right now, ports on the West Coast lack the infrastructure needed to transfer coal from railcars into container ships. (Just 7 million of the 107 million tons of U.S.-exported coal left the country via Pacific Ocean ports last year.) That’s why coal companies like Peabody and Ambre Energy are ready to spend millions to build coal-export facilities at a handful of ports in Washington and Oregon. If all those plans go forward, as much as 150 million tons of coal could be exported from the Northwest annually—-nearly all of it coming from the Powder -River -Basin and headed to Asia. Even if the U.S. kept burning less and less coal at home, it would have a reason to keep mining it.

#### SMRs cause coal plant retiring

Marcus King et al 11, Associate Director of Research, Associate Research Professor of International Affairs, Elliot School of International Affairs, The George Washington University, et al., March 2011, “Feasibility of Nuclear Power on U.S. Military Installations,” http://www.cna.org/sites/default/files/research/Nuclear%20Power%20on%20Military%20Installations%20D0023932%20A5.pdf

SMRs have potential advantages over larger plants because they provide owners more flexibility in financing, siting, sizing, and end-use applications. SMRs can reduce an owner's initial capital outlay or investment because of the lower plant capital cost. Modular components and factory fabrication can reduce construction costs and schedule duration. Additional modules can be added incrementally as demand for power increases. SMRs can provide power for applications where large plants are not needed or may not have the necessary infrastructure to support a large unit such as smaller electrical markets, isolated areas, smaller grids, or restricted water or acreage sites. Several domestic utilities have expressed considerable interest in SMRs as potential replacements for aging fossil plants to increase their fraction of non-carbon-emitting generators. Approximately 80 percent of the 1174 total operating U.S. coal plants have power outputs of less than 500 MWe; 100 percent of coal plants that are more than 50 years old have capacities below 500 MWe [3]. SMRs would be a viable replacement option for these plants.

#### U.S. exports lock in expanded Chinese coal capacity---causes warming over the tipping point---it’s unique because absent U.S. exports the rising cost of coal will cause a shift to renewables

Thomas M. Power 12, Research Professor and Professor Emeritus, Department of Economics, University of Montana; Principal, Power Consulting; February 2012, “The Greenhouse Gas Impact of Exporting Coal from the West Coast: An Economic Analysis,” <http://www.sightline.org/wp-content/uploads/downloads/2012/02/Coal-Power-White-Paper.pdf>

The cumulative impact of these coal port proposals on coal consumption in Asia could be much larger than even that implied by the two pending proposals. If Arch, Peabody, and other western U.S. coal producers’ projections of the competitiveness of western coal in Asia are correct, facilitating the opening of the development of West Coast coal ports could have a very large impact on the supply of coal to China and the rest of Asia.

6.4 The Long-term Implications of Fueling Additional Coal-Fired Electric Generation

Although the economic life of coal-fired generators is often given as 30 or 35 years, a permitted, operating, electric generator is kept on line a lot longer than that, as long as 50 or more years through ongoing renovations and upgrades. Because of that long operating life, the impact of the lower Asian coal prices and costs triggered by PRB coal competing with other coal sources cannot be measured by the number of tons of coal exported each year. Those lower coal costs will lead to commitments to more coal being burned for a half-century going forward.

That time-frame is very important. During exactly this time frame, the next half-century, the nations of the world will have to get their greenhouse gas emission stabilized and then reduced or the concentrations of greenhouse gases in the atmosphere may pass a point that will make it very difficult to avoid massive, ongoing, negative climate impacts. Taking actions now that encourage fifty-years of more coal consumption around the world is not a minor matter. Put more positively, allowing coal prices to rise (and more closely approximate their full cost, including “external” costs) will encourage extensive investments in improving the efficiency with which coal is used and the shift to cleaner sources of energy. This will lead to long-term reductions in greenhouse gas emissions that will also last well into the next half-century. 57

#### Extinction

Flournoy 12 – Citing Feng Hsu, PhdD NASA Scientist @ the Goddard Space Flight Center, Don FLournoy, PhD and MA from UT, former Dean of the University College @ Ohio University, former Associate Dean at SUNY and Case Institute of Technology, Former Manager for Unviersity/Industry Experiments for the NASA ACTS Satellite, currently Professor of Telecommunications @ Scripps College of Communications, Ohio University, “Solar Power Satellites,” January 2012, Springer Briefs in Space Development, p. 10-11

In the Online Journal of Space Communication , Dr. Feng Hsu, a  NASA scientist at Goddard Space Flight Center, a research center in the forefront of science of space and Earth, writes, “The evidence of global warming is alarming,” noting the potential for a catastrophic planetary climate change is real and troubling (Hsu 2010 ) . Hsu and his NASA colleagues were engaged in monitoring and analyzing climate changes on a global scale, through which they received first-hand scientific information and data relating to global warming issues, including the dynamics of polar ice cap melting. After discussing this research with colleagues who were world experts on the subject, he wrote: I now have no doubt global temperatures are rising, and that global warming is a serious problem confronting all of humanity. No matter whether these trends are due to human interference or to the cosmic cycling of our solar system, there are two basic facts that are crystal clear: (a) there is overwhelming scientific evidence showing positive correlations between the level of CO2 concentrations in Earth’s atmosphere with respect to the historical fluctuations of global temperature changes; and (b) the overwhelming majority of the world’s scientific community is in agreement about the risks of a potential catastrophic global climate change. That is, if we humans continue to ignore this problem and do nothing, if we continue dumping huge quantities of greenhouse gases into Earth’s biosphere, humanity will be at dire risk (Hsu 2010 ) . As a technology risk assessment expert, Hsu says he can show with some confidence that the planet will face more risk doing nothing to curb its fossil-based energy addictions than it will in making a fundamental shift in its energy supply. “This,” he writes, “is because the risks of a catastrophic anthropogenic climate change can be potentially the extinction of human species, a risk that is simply too high for us to take any chances” (Hsu 2010 )

#### Chinese emissions are sufficient to cause extinction

John Copeland Nagle 11, the John N. Matthews Professor, Notre Dame Law School, Spring 2011, “How Much Should China Pollute?,” Vermont Journal of Environmental Law, 12 Vt. J. Envtl. L. 591

Third, the rest of the world suffers because of the inability of China and the United States to agree on a method for reducing their greenhouse gas emissions. Even if the rest of the world were to reach such an agreement, the failure to include China and the United States would doom the project from the start. Together, China and the United States account for forty-one percent of the world's greenhouse gas emissions. [FN19] Left unchecked, China's emissions alone could result in many of the harms associated with climate change. [FN20] That is why many observers believe that “[t]he decisions taken in Beijing, more than anywhere else, [will] determine whether humanity thrive[s] or perishe[s].”

### CP---1NC

#### The United States Department of Defense should offer procurement contracts funded through up-front appropriations for small modular nuclear reactors to be owned by the Department of Defense, and located on military bases in the United States that lack power purchase agreements for electricity generated by utility-owned small modular nuclear reactors.

#### The United States Federal Government should facilitate joint operation and management of DOD-owned small modular reactors by DOD and the Department of Energy, and should remove limitations on per-project allocations of operation and maintenance funding for bases with DOD-owned small modular reactors.

#### Solves the case---DOD procurement contracts accelerate SMR commercialization---spills over to widespread adoption

CSPO 10 – Consortium for Science, Policy and Outcomes, Arizona State University, June 2010, “FOUR POLICY PRINCIPLES FOR ENERGY INNOVATION & CLIMATE CHANGE: A SYNTHESIS,” http://www.catf.us/resources/publications/files/Synthesis.pdf

Government purchase of new technologies is a powerful way to accelerate innovation through increased demand (Principle 3a). We explore how this principle can be applied by considering how the DoD could purchase new nuclear reactor designs to meet electric power needs for DoD bases and operations.

Small modular nuclear power reactors (SMRs), which generate less than 300 MW of power (as compared to more typical reactors built in the 1000 MW range) are often listed as a potentially transformative energy technology. While typical traditional large-scale nuclear power plants can cost five to eight billion dollars, smaller nuclear reactors could be developed at smaller scale, thus not presenting a “bet the company” financial risk. SMRs could potentially be mass manufactured as standardized modules and then delivered to sites, which could significantly reduce costs per unit of installed capacity as compared to today’s large scale conventional reactor designs.
It is likely that some advanced reactors designs – including molten salt reactors and reactors utilizing thorium fuels – could be developed as SMRs. Each of these designs offers some combination of inherently safe operation, very little nuclear proliferation risk, relatively small nuclear waste management needs, very abundant domestic fuel resources, and high power densities – all of which are desirable attributes for significant expansion of nuclear energy.

Currently, several corporations have been developing small nuclear reactors. Table 2 lists several of these companies and their reactor power capacities, as well as an indication of the other types of reactor innovations that are being incorporated into the designs. Some of these technologies depend on the well-established light water reactor, while others use higher energy neutrons, coolants capable of higher temperature operation, and other innovative approaches. Some of these companies, such as NuScale, intend to be able to connect as many as 24 different nuclear modules together to form one larger nuclear power plant. In addition to the different power ranges described in Table 2, these reactors vary greatly in size, some being only 3 to 6 feet on each side, while the NuScale reactor is 60 feet long and 14 feet in diameter. Further, many of these reactors produce significant amounts of hightemperature heat, which can be harnessed for process heating, gas turbine generators, and other operations.

One major obstacle is to rapid commercialization and development are prolonged multi-year licensing times with the Nuclear Regulatory Commission. Currently, the NRC will not consider a reactor for licensing unless there is a power utility already prepared to purchase the device. Recent Senate legislation introduced by Senator Jeff Bingaman (D-NM) has pushed for DOE support in bringing down reactor costs and in helping to license and certify two reactor designs with the NRC. Some additional opportunities to facilitate the NRC licensing process for innovative small modular reactors would be to fund NRC to conduct participatory research to get ahead of potential license applications (this might require ~$100million/year) and potentially revise the current requirement that licensing fees cover nearly all NRC licensing review costs.

One option for accelerating SMR development and commercialization, would be for DOD to establish SMR procurement specifications (to include cost) and agree to purchase a sufficient amount of SMR’s to underwrite private sector SMR development. Of note here may be that DARPA recently (3/30/10) issued a “Request for Information (RFI) on Deployable Reactor Technologies for Generating Power and Logistic Fuels” 2 that specifies may features that would be highly desirable in an advanced commercial SMR. While other specifications including coproduction of mobility fuel are different than those of a commercial SMR power reactor, it is likely that a core reactor design meeting the DARPA inquiry specifications would be adaptable to commercial applications. While nuclear reactors purchased and used by DOD are potentially exempt from many NRC licensing requirements 3 , any reactor design resulting from a DOD procurement contract would need to proceed through NRC licensing before it could be commercially offered. Successful use of procured SMR’s for DOD purposes could provide the knowledge and operational experience needed to aid NRC licensing and it might be possible for the SMR contractor to begin licensing at some point in the SMR development process4.

Potential purchase of small modular nuclear reactors would be a powerful but proven way in which government procurement of new energy technologies could encourage innovation. Public procurement of other renewable energy technologies could be similarly important.

#### Net-benefit mechanics:

#### DOD reducing reliance on REC purchases now

FT 12 – Federal Times, 7/22/12, “Agencies buying energy credits to meet mandates,” http://www.federaltimes.com/article/20120722/FACILITIES02/307220006/Agencies-buying-energy-credits-meet-mandates

But some agencies are trying to buck the trend and reduce their reliance on RECs.

The Interior Department said it plans to build more renewable energy projects and purchase fewer RECs.

For example, the National Park Service plans to install solar panels on top of its visitor station at Assateague Island, in Berlin, Md.

“We anticipate a reduced reliance on RECs to meet mandated renewable energy goals,” spokesman Drew Malcomb said.

The Defense Department intends to buy fewer RECs and instead invest money in on-site projects.

“It takes money to buy RECs, and you are not creating any new capacity. You are just spending money to meet a goal,” Dorothy Robyn, deputy undersecretary of Defense for installations and environment, said in an interview.

Robyn is confident DoD will get there without paying for credits. “We are in a position to generate renewable energy on our own installations,” she said.

Pentagon spokeswoman Melinda Morgan said the department does not track how much it spends on credits each year.

In 2011, DoD decided to scale back its purchase of RECs, despite having a goal to obtain 5 percent of its facilities’ energy needs from renewable energy sources. It achieved only 3.1 percent after reducing its purchase of credits from 440,000 to 248,000 megawatt hours, Robyn said.

#### Energy obtained through alternative financing doesn’t count towards mandates that force DOD to increase reliance on renewables---causes renewable energy credit purchases to make up the difference

GAO 9 – Government Accountability Office, December 2009, “Defense Infrastructure: DOD Needs to Take Actions to Address Challenges in Meeting Federal Renewable Energy Goals,” <http://www.gao.gov/new.items/d10104.pdf>

As we explained earlier in this report, DOD expects to rely increasingly on alternative financing approaches to meet the renewable energy goals. For DOD to effectively implement these approaches, the department will require energy management staff who have the relevant expertise for implementing the approaches. However, because we found that the services and their installations’ staff often lack expertise in developing alternative financing approaches, DOD may by limited in its ability both to use these approaches to develop renewable energy projects and to do so in a manner that adequately protects the government’s financial resources committed to these approaches.

According to DOD officials, in most cases, private developers are generally interested in partnering with DOD in order to sell the projects’ unbundled energy or associated renewable energy certificates to a third party. These officials explained that the generally accepted business model for these types of approaches includes a renewable energy resource on or near DOD land that is harnessed by a project financed, built, and operated by thirdparty developer that then sells the unbundled energy to DOD or other customers and typically retains ownership of the project’s renewable energy certificates.48

However, under such approaches, DOD often would neither consume the renewable energy nor retain the renewable energy certificates. When DOD does not consume the renewable energy, a developer would provide some other form of compensation for the use of the renewable resource on DOD land. For example, in the largest renewable energy project on DOD land, DOD does not consume the energy but instead receives financial compensation based on the sale of the project’s energy. If DOD neither consumes the renewable energy nor retains the renewable energy certificates, a serious challenge may be posed to DOD’s ability to meet the renewable energy goals. That occurs because, according to DOE’s guidance on implementation of the 2005 Act and the 2007 Executive Order—guidance designed to preserve the integrity of the renewable energy certificate market—for an agency to count a project’s renewable energy toward these goals, the project must meet two requirements. First, the renewable energy must be produced and used on-site at a federal agency or the renewable energy must be produced by a project owned by a federal agency but installed on private property. Second, the agency must retain or replace the renewable energy certificates associated with the energy produced. In addition, as we discussed earlier, unlike DOE, DOD has not issued guidance that provides a clear explanation of its methodology for calculating progress toward the fiscal year 2025 goal under the 2007 Defense Authorization Act, including DOD’s definition of “consumption” and the treatment of renewable energy certificates in that context.

#### DOD ownership of the project solves the case and avoids REC purchases

Loni Silva 12, J.D., The George Washington University Law School, Summer 2012, “THE PROBLEMS WITH USING RENEWABLE ENERGY CERTIFICATES TO MEET FEDERAL RENEWABLE ENERGY REQUIREMENTS,” Public Contract Law Journal, Vol. 41, No. 4

The best way to address the problems with FEMP’s REC interpretation is to render the use of RECs to meet EPAct 2005 and EO 13423 obsolete. RECs should only be used as a short-term, stop-gap solution to meet the renewable energy requirements. 139 The long-term goal should be for agencies to consume bundled renewable energy produced on or near agency installations.

Consuming renewable energy would eliminate the current problems with FEMP’s REC interpretation. First, consuming renewable energy would eliminate the problem with best value because, unlike RECs, renewable energy responds to and fulﬁlls agencies’ actual energy needs. 140 For Joe, the energy manager, the ability to use renewable energy means that he would not need to spend part of his energy budget on a commodity that does not address his actual energy needs. 141

Second, consuming renewable energy would eliminate the problems with transparency and accountability. 142 Because the policies plainly require agencies to consume renewable energy, complying by consuming renewable energy, rather than purchasing RECs, would be transparent. 143 Moreover, because this method of compliance is transparent and allows a clear view of what the Government is doing in response to the requirements of the policies, it allows the Government to be held accountable. 144

Third, consuming renewable energy produced at on-site facilities would further the policies’ goal of developing on-site renewable energy facilities. 145 Having facilities on or near agency property would provide power to the installation in case the grid is attacked or fails. 146 It would also promote the energy independence, security, and sustainability of both the Federal Government and the nation as a whole by developing new renewable energy facilities. 147

Developing new renewable energy facilities on or near agency installations would allow agencies to consume renewable energy, rather than RECs. 148 Of course, not all locations are able to support a renewable energy facility. 149 However, because the policy requirements are agency-wide rather than installation speciﬁc, agencies can build facilities at installations with available land, increasing renewably energy production to compensate for installations where the lack of available land or other factors makes facility development impossible. 150

#### Avoids politics---RECs trigger massive backlash---perceived as a backdoor carbon tax

Bill Sweet 12, Editor of IEEE Spectrum, a publication of the Institute of Electrical and Electronics Engineers, 3/2/12, “Are Renewable Energy Credits Excessively Expensive?,” http://spectrum.ieee.org/energywise/energy/renewables/are-renewable-energy-credits-excessively-expensive

The Manhattan Institute, a public policy research outfit with a free-market and somewhat libertarian orientation, has issued a report arguing that renewable energy credits (RECs) represent an excessively expensive way of addressing environmental concerns and promoting green technology. The REC is a device employed by the 29 states plus the District of Columbia and Puerto Rico that have adopted renewable portfolio standards, sometimes with special "carve-outs" for solar energy. Grid participants unable to meet mandated targets for renewable generation purchase tradeable credits from those that can, where a single REC represents one MWh of green energy delivered. Thus, the REC is a means of delivering subsidies to producers of green energy that are paid for by producers of dirty energy.

The REC, and even perhaps some of the purposes the REC is meant to serve, is not popular among the kinds of people who write for the Manhattan Institute. As they see it—and arguably they are right—the REC is a poorly concealed substitute for a carbon emissions credit, which in turn is a poorly concealed substitute for a carbon tax. Nevertheless, the Manhattan Institute has a record of producing serious work that is respected by people who do not necessarily share the institute's general point of view. This latest report, "The High Cost of Renewable Energy Mandates," by Robert Bryce, deserves attention as a first stab at assessing the overall costs to consumers of RECs.

Basically Bryce compares the costs of electricity in states that have renewable energy mandates with costs in states that do not and finds that rates have gone up much more in states that do have such mandates. "The gap is particularly striking in coal-dependent states—seven such states with RPS mandates saw their rates soar by an average of 54.2 percent between 2001 and 2010, more than twice the average increase experienced by seven other coal-dependent states without mandates," reports Bryce. Though he devotes detailed attention to certain states such as California, Oregon and Washington, he does not try to disentangle the precise mix of reasons that have produced higher rates in states with portfolio standards, and nor does he claim to.

Bryce notes that tightening regulation of coal generating plants and higher expenditures on power transmission also have been major factors in driving up electricity costs. Citing figures from the Edison Electric Institute, Bryce says that "member companies spent over $55 billion on transmission projects between 2001 and 2009. Another $61 billion will likely be spent on transmission projects from 2010 through 2021."

However superficial, the Manhattan Institute report suggests worryingly that the costs of promoting wind and especially solar energy may start catching up with policy-makers and produce a political backlash, as we have been witnessing in Europe.

#### Accountability---DOD REC purchases destroy agency accountability and transparency

Loni Silva 12, J.D., The George Washington University Law School, Summer 2012, “THE PROBLEMS WITH USING RENEWABLE ENERGY CERTIFICATES TO MEET FEDERAL RENEWABLE ENERGY REQUIREMENTS,” Public Contract Law Journal, Vol. 41, No. 4

The second problem with RECs is that using them to meet EPAct 2005 and EO 13423 requirements implicates transparency and accountability. 101 EPAct 2005 and EO 13423 require agencies to consume renewable energy and neither policy indicates that purchasing RECs qualiﬁes as consuming renewable energy. 102 Rather, the FEMP guidance introduces the concept of allowing RECs to meet the policy requirements: “For purposes of the EPAct 2005 and EO 13423 Requirements, purchases of RECs are treated the same as renewable energy purchases.” 103

FEMP’s interpretation allowing RECs to satisfy the policy requirements violates the spirit of transparency because it provides an obscure way for agencies to meet the requirements. Transparency requires that “government business is conducted in an . . . open manner.” 104 If the policies themselves stated that their renewable energy requirements could be met with RECs, there would be no transparency concerns because the methods of compliance would be apparent on the face of the policies. 105 Instead, the policies only describe compliance through use of renewable energy—they never mention RECs. 106 Yet agencies can comply by using RECs because FEMP’s REC interpretation subsequently allows RECs to be treated as renewable energy. 107 The FEMP guidance allows a method of compliance one would not expect from the face of the statute, and this implicates signiﬁcant transparency concerns. This lack of transparency means that accountability is also sacriﬁced. 108 A taxpayer cannot know from the face of the statute that agencies can use RECs.109 A taxpayer is therefore less likely to hold the Government accountable.

#### Causes foreign policy catastrophes

Norman J. Ornstein 6, Resident Scholar at the American Enterprise Institute; and Thomas E. Mann, the W. Averell Harriman Chair and Senior Fellow in Governance Studies at the Brookings Institution, November/December 2006, “When Congress Checks Out,” Foreign Affairs

The making of sound U.S. foreign policy depends on a vigorous, deliberative, and often combative process that involves both the executive and the legislative branches. The country's Founding Fathers gave each branch both exclusive and overlapping powers in the realm of foreign policy, according to each one's comparative advantage -- inviting them, as the constitutional scholar Edwin Corwin has put it, "to struggle for the privilege of directing American foreign policy."

One of Congress' key roles is oversight: making sure that the laws it writes are faithfully executed and vetting the military and diplomatic activities of the executive. Congressional oversight is meant to keep mistakes from happening or from spiraling out of control; it helps draw out lessons from catastrophes in order to prevent them, or others like them, from recurring. Good oversight cuts waste, punishes fraud or scandal, and keeps policymakers on their toes. The task is not easy. Examining a department or agency, its personnel, and its implementation policies is time-consuming. Investigating possible scandals can easily lapse into a partisan exercise that ignores broad policy issues for the sake of cheap publicity.

#### DOD leadership---REC reliance sends a signal of greenwashing

Auden Schendler 7, Vice President of sustainability at Aspen Skiing Company, October 2007, “When Being Green Backfires,” Harvard Business Review, Vol. 85, Issue 10

The danger in buying RECs is that the mainstream press has begun to challenge claims about their environmental value. Articles have appeared in publications including BusinessWeek and the Financial Times pointing out that most RECs don't actually offset emissions, and the skepticism is spreading across the Internet. Indeed, most RECs don't result in the creation of clean electricity, which would have been generated anyway, whether or not an REC was printed. As consumers become increasingly savvy about evaluating companies' environmental claims, businesses that tout REC purchases may expose themselves to charges of greenwashing.

A report released in 2006 by an environmental organization called Clean Air--Cool Planet was among the first to rigorously examine the environmental impact of RECs. The report found that while most RECs don't lead to carbon-emissions reductions, a minority do, by directly helping to finance, say, the construction of a new wind farm. Companies that buy RECs and want to avoid charges of greenwashing should seek out these higher-quality and more costly certificates, whose purchase directly and demonstrably helps reduce carbon emissions.

RECs, supporters argue, create a market mechanism that spurs the development of new wind, solar, and other green-electricity plants. As demand for RECs grows, their prices will rise, encouraging developers to build more renewable power facilities that can generate income through increasingly profitable sales of the certificates. Unfortunately, because there has been such a surplus of cheap RECs--and no easy way to distinguish between high- and low-quality offerings--the market mechanism has remained stalled for the most part. If companies, mindful of their reputations, reject inferior RECs and begin demanding quality ones, that could jump-start the production of renewable electricity and actually reduce carbon emissions. Corporate scrutiny and activism might even foster the development of a badly needed tool that could clean up the entire REC industry in one masterstroke: a third-party gold standard for REC quality.

#### Perception of greenwashing destroys the credibility of DOD leadership on clean energy---credible strategy’s key to global spillover of sustainable tech

Laura Horton 11, J.D., Golden Gate University School of Law, Spring 2011, “COMMENT: FUTURE FORCE SUSTAINABILITY: DEPARTMENT OF DEFENSE AND ENERGY EFFICIENCY IN A CHANGING CLIMATE,” Golden Gate University Environmental Law Journal, 4 Golden Gate U. Envtl. L.J. 303, p. lexis

As the world’s largest consumer of energy, the military has a long way to go if it intends to achieve energy efficiency goals set by the government and the DOD itself. However, not everyone is convinced that the military will follow through, considering its past environmental record. 153 This skepticism is valid in light of the growing impact climate change has had on the planet and the extent to which the military has contributed to GHG emissions. 154 In addition, mistrust of the DOD’s environmental record is warranted, since environmental damage from military activities still exists all over the United States 155

The suspect attitude toward military greening is akin to an attitude held by many concerning corporate “environmentalism” in the form of “greenwashing.” 156 The military is claiming to go “green,” and is indeed making strides in energy efficiency, while simultaneously increasing oil use by 1.5% annually through 2017. 157 Also, efficiency programs are limited to base installations and are not applied to tactical fleets, where much of the DOD’s fuel consumption occurs. 158 Furthermore, little is said in any of the aforementioned reports about the many exemptions the DOD sought from numerous environmental laws over the past eight years. 159 The military is accustomed to approaching environmental protection on its own terms and is giving mixed signals about how important energy efficiency will be in the near future. Consequently, there is a question as to how self-imposed standards such as voluntary compliance with federal energy efficiency standards, from which the DOD is otherwise exempt, will play out. 160 One example of the uncertainty of these programs can be found in a recent article in ClimateWire. 161 According to the article, the aforementioned spray foam insulation program has now been halted in the absence of advocacy for such programs. 162 The difficulty of relocating the foam tents and high disposal costs have led to the demise of spray foam use, and supporters are calling for a mandate to move forward with the project. 163 It is unclear whether the DOD will resume the program at all. The need for advocacy is especially important for the public to understand, because of the potential for new energy technology to transform the civilian marketplace as military technology finds its way into the public domain. 164

The military has begun to take the lead in energy efficiency, drive the civilian sector toward sustainable energy use, and push for “policy change to help make the necessary cultural shifts in how its people think about energy use and the decisions they make in all settings.” 165 The more seriously the military takes energy efficiency, the faster sustainable technology will reach the public. For that reason, progress on these efforts should be monitored and documented for the public to review. A history of military brush-offs of the importance of environmental protection does not lend itself to a campaign of global stewardship. In order to win the confidence of the public, the military must demonstrate a willingness to follow through with the programs it has set in place to lead alternative-energy development in the United States and the world.

#### U.S. leadership on the broader green tech transition solves extinction

Klarevas 9 –Louis Klarevas, Professor for Center for Global Affairs @ New York University, 12/15, “Securing American Primacy While Tackling Climate Change: Toward a National Strategy of Greengemony,” http://www.huffingtonpost.com/louis-klarevas/securing-american-primacy\_b\_393223.html

As national leaders from around the world are gathering in Copenhagen, Denmark, to attend the United Nations Climate Change Conference, the time is ripe to re-assess America's current energy policies - but within the larger framework of how a new approach on the environment will stave off global warming and shore up American primacy. By not addressing climate change more aggressively and creatively, the United States is squandering an opportunity to secure its **global primacy** for the next few generations to come. To do this, though, the U.S. must rely on innovation to help the world escape the coming environmental meltdown. Developing the key technologies that will save the planet from global warming will allow the U.S. to outmaneuver potential great power rivals seeking to replace it as the international system's hegemon. But the greening of American strategy must occur soon. The U.S., however, seems to be stuck in time, unable to move beyond oil-centric geo-politics in any meaningful way. Often, the gridlock is portrayed as a partisan difference, with Republicans resisting action and Democrats pleading for action. This, though, is an unfair characterization as there are numerous proactive Republicans and quite a few reticent Democrats. The real divide is instead one between realists and liberals. Students of realpolitik, which still heavily guides American foreign policy, largely discount environmental issues as they are not seen as advancing national interests in a way that generates relative power advantages vis-à-vis the other major powers in the system: Russia, China, Japan, India, and the European Union. ¶ Liberals, on the other hand, have recognized that global warming might very well become the greatest challenge ever faced by (hu)mankind. As such, their thinking often eschews narrowly defined national interests for the greater global good. This, though, ruffles elected officials whose sworn obligation is, above all, to protect and promote American national interests. What both sides need to understand is that by becoming a lean, mean, green fighting machine, the U.S. can actually bring together liberals and realists to advance a collective interest which benefits every nation, while at the same time, securing America's global primacy well into the future. To do so, the U.S. must re-invent itself as not just your traditional hegemon, but as history's first ever green hegemon. Hegemons are countries that dominate the international system - bailing out other countries in times of global crisis, establishing and maintaining the most important international institutions, and covering the costs that result from free-riding and cheating global obligations. Since 1945, that role has been the purview of the United States. Immediately after World War II, Europe and Asia laid in ruin, the global economy required resuscitation, the countries of the free world needed security guarantees, and the entire system longed for a multilateral forum where global concerns could be addressed. The U.S., emerging the least scathed by the systemic crisis of fascism's rise, stepped up to the challenge and established the postwar (and current) liberal order. But don't let the world "liberal" fool you. While many nations benefited from America's new-found hegemony, the U.S. was driven largely by "realist" selfish national interests. The liberal order first and foremost benefited the U.S. With the U.S. becoming bogged down in places like Afghanistan and Iraq, running a record national debt, and failing to shore up the dollar, the future of American hegemony now seems to be facing a serious contest: potential rivals - acting like sharks smelling blood in the water - wish to challenge the U.S. on a variety of fronts. This has led numerous commentators to forecast the U.S.'s imminent fall from grace. Not all hope is lost however. With the impending systemic crisis of global warming on the horizon, the U.S. again finds itself in a position to address a transnational problem in a way that will benefit both the international community collectively and the U.S. selfishly. The current problem is two-fold. First, the competition for oil is fueling animosities between the major powers. The geopolitics of oil has already emboldened Russia in its 'near abroad' and China in far-off places like Africa and Latin America. As oil is a limited natural resource, a nasty zero-sum contest could be looming on the horizon for the U.S. and its major power rivals - a contest which threatens American primacy and global stability. Second, converting fossil fuels like oil to run national economies is producing irreversible harm in the form of carbon dioxide emissions. So long as the global economy remains oil-dependent, greenhouse gases will continue to rise. Experts are predicting as much as a 60% increase in carbon dioxide emissions in the next twenty-five years. That likely means more devastating water shortages, droughts, forest fires, floods, and storms. In other words, if global competition for access to energy resources does not undermine international security, global warming will. And in either case, oil will be a culprit for the instability. Oil arguably has been the most precious energy resource of the last half-century. But "black gold" is so 20th century. The key resource for this century will be green gold - clean, environmentally-friendly energy like wind, solar, and hydrogen power. Climate change leaves no alternative. And the sooner we realize this, the better off we will be. What Washington must do in order to avoid the traps of petropolitics is to convert the U.S. into the world's first-ever green hegemon. For starters, the federal government must drastically increase investment in energy and environmental research and development (E&E R&D). This will require a serious sacrifice, committing upwards of $40 billion annually to E&E R&D - a far cry from the few billion dollars currently being spent. By promoting a new national project, the U.S. could develop new technologies that will assure it does not drown in a pool of oil. Some solutions are already well known, such as raising fuel standards for automobiles; improving public transportation networks; and expanding nuclear and wind power sources. Others, however, have not progressed much beyond the drawing board: batteries that can store massive amounts of solar (and possibly even wind) power; efficient and cost-effective photovoltaic cells, crop-fuels, and hydrogen-based fuels; and even fusion. Such innovations will not only provide alternatives to oil, they will also give the U.S. an edge in the global competition for hegemony. If the U.S. is able to produce technologies that allow modern, globalized societies to escape the oil trap, those nations will eventually have no choice but to adopt such technologies. And this will give the U.S. a tremendous economic boom, while simultaneously providing it with means of leverage that can be employed to keep potential foes in check. The bottom-line is that the U.S. needs to become green energy dominant as opposed to black energy independent.

## DOD Advantage

### Grid---Squo Solves---General

#### Status quo solves grid cyber vulnerability

Paul Clark 12, MA Candidate, Intelligence/Terrorism Studies, American Military University; Senior Analyst, Chenega Federal Systems, 4/28/12, “The Risk of Disruption or Destruction of Critical U.S. Infrastructure by an Offensive Cyber Attack,” http://blog.havagan.com/wp-content/uploads/2012/05/The-Risk-of-Disruption-or-Destruction-of-Critical-U.S.-Infrastructure-by-an-Offensive-Cyber-Attack.pdf

An attack against the electrical grid is a reasonable threat scenario since power systems are "a high priority target for military and insurgents" and there has been a trend towards utilizing commercial software and integrating utilities into the public Internet that has "increased vulnerability across the board" (Lewis 2010). Yet the increased vulnerabilities are mitigated by an increased detection and deterrent capability that has been "honed over many years of practical application" now that power systems are using standard, rather than proprietary and specialized, applications and components (Leita and Dacier 2012). The security of the electrical grid is also enhanced by increased awareness after a smart-grid hacking demonstration in 2009 and the identification of the Stuxnet malware in 2010: as a result the public and private sector are working together in an "unprecedented effort" to establish robust security guidelines and cyber security measures (Gohn and Wheelock 2010).

### Grid---Squo Solves---Islanding---1NC

#### Squo solves islanding---the military adapted

Michael Aimone 9-12, Director, Business Enterprise Integration, Office of the Deputy Under Secretary of Defense (Installations and Environment), 9/12/12, Statement Before the House Committee on Homeland Security, Subcommittee on Cybersecurity, Infrastructure Protection and Security Technologies, http://homeland.house.gov/sites/homeland.house.gov/files/Testimony%20-%20Aimone.pdf

DoD’s facility energy strategy is also focused heavily on grid security in the name of mission assurance. Although the Department’s fixed installations traditionally served largely as a platform for training and deployment of forces, in recent years they have begun to provide direct support for combat operations, such as unmanned aerial vehicles (UAVs) flown in Afghanistan from fixed installations here in the United States. Our fixed installations also serve as staging platforms for humanitarian and homeland defense missions. These installations are largely dependent on a commercial power grid that is vulnerable to disruption due to aging infrastructure, weather-related events, and potential kinetic, cyber attack. In 2008, the Defense Science Board warned that DoD’s reliance on a fragile power grid to deliver electricity to its bases places critical missions at risk.1 ¶ Standby Power Generation ¶ Currently, DoD ensures that it can continue mission critical activities on base largely through its fleet of on-site power generation equipment. This equipment is connected to essential mission systems and automatically operates in the event of a commercial grid outage. In addition, each installation has standby generators in storage for repositioning as required. Facility power production specialists ensure that the generators are primed and ready to work, and that they are maintained and fueled during an emergency. With careful maintenance these generators can bridge the gap for even a lengthy outage. As further back up to this installed equipment, DoD maintains a strategic stockpile of electrical power generators and support equipment that is kept in operational readiness. For example, during Hurricane Katrina, the Air Force transported more than 2 megawatts of specialized diesel generators from Florida, where they were stored, to Keesler Air Force Base in Mississippi, to support base recovery.

### Islanding Not Key

#### Full islanding not key---DOD doesn’t want it

Annie Snider 12, E&E reporter, 1/16/12, “Pentagon still can't define 'energy security,' much less achieve it,” http://www.eenews.net/public/Greenwire/2012/01/16/1

Some argue that all military facilities should be able to operate off the grid for an unlimited period of time, a concept called "islanding." But full islanding has fallen out of favor with most Pentagon officials, who say that even with such capabilities, a base would not be able to operate for long if its neighbors were devastated, at minimum because most service members live with their families off-base.

"If the grid is down for days and everything in the nearby town is out, but you've got a lit up base -- what kind of message does that send?" asked Kevin Geiss, deputy assistant secretary for energy for the Air Force. "We either need to be prepared to figure out how we can also support outside the fence, or maybe that's not the solution."

Geiss argues that the focus should be on building a system that lets the most important missions stay up for as long as necessary, while letting go of lower-priority missions during outages. The Defense Science Board also took this tack and included a classified appendix to its report that lists facilities where the board believed building this limited form of islanding is most important.

What this would actually mean depends on the installation. Sites focused on training may be able to stay offline for a while, but facilities involved with battlefield missions like drone flights or real-time intelligence analysis likely cannot afford a gap. It would also depend on the circumstances surrounding the outage. During a natural disaster like Hurricane Katrina, for instance, facilities that would not normally be prioritized could become critical as regional relief centers.

"If all I could produce is 20 megawatts, I want to be able to do that 20 megawatts at the most important facility on the installation at that time," said Coby Jones, who manages the energy program at the Army's Fort Bragg in North Carolina.

"The situation and the mission determine what buildings are critical," he explained. "If it's just a natural disaster, different facilities are more important than others. If it is a military situation or mission that's going on, it's other facilities that need to have power to them. It's hard to put your finger on which building is most important and how to define that, because it is a sliding scale."

### AT: Cyber Attacks---Not Likely

#### The grid is air-gapped

Michael Tanji 10, spent 20 years in the US intelligence community; veteran of the US Army; served in strategic and tactical assignments worldwide; participated in national and international analysis and policy efforts for the NIC, NSC and NATO; Claremont Institute Lincoln Fellow and Senior Fellow at the Center of Threat Awareness; lectures on intelligence issues at The George Washington University, 7/13/10, “Hacking the Electric Grid? You and What Army?,” http://www.wired.com/dangerroom/2010/07/hacking-the-electric-grid-you-and-what-army/

Grid-hacking is back in the news, with the unveiling of “Perfect Citizen,” the National Security Agency’s creepily named effort to protect the networks of electrical companies and nuclear power plants.

People have claimed in the past to be able to turn off the internet, there are reports of foreign penetrations into government systems, “proof” of foreign interest in attacking U.S. critical infrastructure based on studies, and concerns about adversary capabilities based on allegations of successful critical infrastructure attacks. Which begs the question: If it’s so easy to turn off the lights using your laptop, how come it doesn’t happen more often?

The fact of the matter is that it isn’t easy to do any of these things. Your average power grid or drinking-water system isn’t analogous to a PC or even to a corporate network. The complexity of such systems, and the use of proprietary operating systems and applications that are not readily available for study by your average hacker, make the development of exploits for any uncovered vulnerabilities much more difficult than using Metasploit.

To start, these systems are rarely connected directly to the public internet. And that makes gaining access to grid-controlling networks a challenge for all but the most dedicated, motivated and skilled — nation-states, in other words.

#### Cyber attacks on the grid are impossible

Douglas Birch 10-1, former foreign correspondent for the Associated Press and the Baltimore Sun who has written extensively on technology and public policy, 10/1/12, “Forget Revolution,” Foreign Policy, http://www.foreignpolicy.com/articles/2012/10/01/forget\_revolution?page=full

Likewise, some of the bill's advocates suspect that in the aftermath of a truly successful cyber attack, the government would have to bail the utilities out anyway. Joe Weiss, a cyber security professional and an authority on industrial control systems like those used in the electric grid, argued that a well-prepared, sophisticated cyber attack could have far more serious consequences than this summer's blackouts. "The reason we are so concerned is that cyber could take out the grid for nine to 18 months," he said. "This isn't a one to five day outage. We're prepared for that. We can handle that."

But pulling off a cyber assault on that scale is no easy feat. Weiss agreed that hackers intent on inflicting this kind of long-term interruption of power would need to use a tool capable of inflicting physical damage. And so far, the world has seen only one such weapon: Stuxnet, which is believed to have been a joint military project of Israel and the United States.

Ralph Langner, a German expert on industrial-control system security, was among the first to discover that Stuxnet was specifically designed to attack the Supervisory Control and Data Acquisition system (SCADA) at a single site: Iran's Natanz uranium-enrichment plant. The computer worm's sophisticated programs, which infected the plant in 2009, caused about 1,000 of Natanz's 5,000 uranium-enrichment centrifuges to self-destruct by accelerating their precision rotors beyond the speeds at which they were designed to operate.

Professionals like Weiss and others warned that Stuxnet was opening a Pandora's Box: Once it was unleashed on the world, they feared, it would become available to hostile states, criminals, and terrorists who could adapt the code for their own nefarious purposes. But two years after the discovery of Stuxnet, there are no reports of similar attacks against the United States. What has prevented the emergence of such copycat viruses?

A 2009 paper published by the University of California, Berkeley, may offer the answer. The report, which was released a year before Stuxnet surfaced, found that in order to create a cyber weapon capable of crippling a specific control system ­­-- like the ones operating the U.S. electric grid -- six coders might have to work for up to six months to reverse engineer the targeted center's SCADA system.

Even then, the report says, hackers likely would need the help of someone with inside knowledge of how the network's machines were wired together to plan an effective attack. "Every SCADA control center is configured differently, with different devices, running different software/protocols," wrote Rose Tsang, the report's author.

Professional hackers are in it for the money -- and it's a lot more cost-efficient to search out vulnerabilities in widely-used computer programs like the Windows operating system, used by banks and other affluent targets, than in one-of-a-kind SCADA systems linked to generators and switches.

### AT: Heg Solves War---1NC

#### No impact to mission effectiveness

Fettweis 11 Christopher J. Fettweis, Department of Political Science, Tulane University, 9/26/11, Free Riding or Restraint? Examining European Grand Strategy, Comparative Strategy, 30:316–332, EBSCO

It is perhaps worth noting that there is no evidence to support a direct relationship between the relative level of U.S. activism and international stability. In fact, the limited data we do have suggest the opposite may be true. During the 1990s, the United States cut back on its defense spending fairly substantially. By 1998, the United States was spending $100 billion less on defense in real terms than it had in 1990.51 To internationalists, defense hawks and believers in hegemonic stability, this irresponsible “peace dividend” endangered both national and global security. “No serious analyst of American military capabilities,” argued Kristol and Kagan, “doubts that the defense budget has been cut much too far to meet America’s responsibilities to itself and to world peace.”52 On the other hand, if the pacific trends were not based upon U.S. hegemony but a strengthening norm against interstate war, one would not have expected an increase in global instability and violence. The verdict from the past two decades is fairly plain: The world grew more peaceful while the U**nited** S**tates** cut its forces. No state seemed to believe that its security was endangered by a less-capable United States military, or at least none took any action that would suggest such a belief. No militaries were enhanced to address power vacuums, no security dilemmas drove insecurity or arms races, and no regional balancing occurred once the stabilizing presence of the U.S. military was diminished. The rest of the world acted as if the threat of international war was not a pressing concern, despite the reduction in U.S. capabilities. Most of all, the United States and its allies were no less safe. The incidence and magnitude of global conflict declined while the United States cut its military spending under President Clinton, and kept declining as the Bush Administration ramped the spending back up. No complex statistical analysis should be necessary to reach the conclusion that the two are unrelated. Military spending figures by themselves are insufficient to disprove a connection between overall U.S. actions and international stability. Once again, one could presumably argue that spending is not the only or even the best indication of hegemony, and that it is instead U.S. foreign political and security commitments that maintain stability. Since neither was significantly altered during this period, instability should not have been expected. Alternately, advocates of hegemonic stability could believe that relative rather than absolute spending is decisive in bringing peace. Although the United States cut back on its spending during the 1990s, its relative advantage never wavered. However, even if it is true that either U.S. commitments or relative spending account for global pacific trends, then at the very least stability can evidently be maintained at drastically lower levels of both. In other words, even if one can be allowed to argue in the alternative for a moment and suppose that there is in fact a level of engagement below which the United States cannot drop without increasing international disorder, a rational grand strategist would still recommend cutting back on engagement and spending until that level is determined. Grand strategic decisions are never final; continual adjustments can and must be made as time goes on. Basic logic suggests that the United States ought to spend the minimum amount of its blood and treasure while seeking the maximum return on its investment. And if the current era of stability is as stable as many believe it to be, no increase in conflict would ever occur irrespective of U.S. spending, which would save untold trillions for an increasingly debt-ridden nation. It is also perhaps worth noting that if opposite trends had unfolded, if other states had reacted to news of cuts in U.S. defense spending with more aggressive or insecure behavior, then internationalists would surely argue that their expectations had been fulfilled. If increases in conflict would have been interpreted as proof of the wisdom of internationalist strategies, then logical consistency demands that the lack thereof should at least pose a problem. As it stands, the only evidence we have regarding the likely systemic reaction to a more restrained United States suggests that the current peaceful trends are unrelated to U.S. military spending. Evidently the rest of the world can operate quite effectively without the presence of a global policeman. Those who think otherwise base their view on faith alone.

## Desal Advantage

### No Solve

#### They can’t solve---no evidence we would choose to use SMR’s to give other countries water for free---obviously the military would use it for missions

### No Water Wars

#### No water wars

Katz 11—Director of the Akirov Institute for Business and Environment at Tel Aviv University. PhD (David, Hydro-Political Hyperbole, Global Environmental Politics, 11; 1; Feb 2011)

A number critiques have been leveled against both the theory and the empirical evidence behind the water wars hypothesis. One critique of the environmental security literature, of which much of the published material on water wars is guilty, is that warnings and threats of future violence are often considered as evidence.28 Statements from the 1980s that the next war in the Middle East will be over water have already proven false. Research has shown, however, that even the more general predictions of imminent water wars that are based on comments by officials may be suspect. Leng, for instance, found no correlation between the frequency of threats of war and the onset of war.29 Examining conflict and cooperation over water resources, Yoffe and colleagues noted over 400 incidents of water-related verbal exchanges by political figures between 1948 and 1999 that were conflictual in nature, but only 37 instances of violent conflict of varying levels of intensity. Thirty of these were from the Middle East, none were [End Page 15] more recent than 1970, none were all-out wars, and in none was water the central cause of conflict.30

Proponents of water war scenarios often premise their dire conclusions on the fact that water is essential for life and non-substitutable.31 Yet water for basic needs represents a small share of total water use, even in arid countries.32 Economists and others point out that over 80 percent of world freshwater withdrawals are for the agricultural sector, a relatively low-value use and one in which large gains in efficiency could be made by changes in irrigation techniques and choice of crops. Thus, economic critiques of the water war hypothesis stress that the value of water that would be gained from military conflict is unlikely to outweigh the economic costs of military preparation and battle, much less the loss of life.33

Some authors have even questioned the empirical basis for the conclusion that freshwater is increasingly scarce, 34 an assumption on which the water war hypothesis relies. Such a “cornucopian” view claims that people adapt to scarcity through improvements in technology, pricing, and efficiency—rendering water less scarce, not more so.

Perhaps the strongest case against the likelihood of water wars is the lack of empirical evidence of precedents. Wolf found only one documented case of war explicitly over water, and this took place over 4500 years ago.35 Moreover, he could document only seven cases of acute conflict over water. Yoffe and colleagues also find that armed conflict over water resources has been uncommon.36 They found that cooperation was much more common than conflict, both globally and in all world regions except the Middle East/North Africa. This pattern may explain why only a limited number of case studies of water conflict are presented in the water wars literature.

Analysts have criticized environmental security arguments that are based on case studies because such works tend to have no variation in the dependent variable.37 Many large sample statistical studies have attempted to address such shortcomings, however, in several cases these studies too have come under fire. For instance, a number of large-sample statistical studies find correlations between water-related variables and conflict, however, few, if any, provide convincing support for causal relationships. Moreover, several studies found that water availability had no impact on the likelihood of either domestic or international conflict, 38 including at least one study that attempted to replicate earlier studies [End Page 16] that claimed to have found such correlations.39 Moreover, the results of several studies that do find correlations between water and conflict are either not robust or are contrasted by other findings. For instance, Raleigh and Urdal find that the statistical significance of water scarcity variables is highly dependent on one or two observations, leading them to conclude that actual effects of water scarcity “are weak, negligible or insignificant.”40 Jensen and Gleditsch find that the results of Miguel and colleagues are less robust when using a recoding of the original dataset.41 Gleditsch and colleagues found that shared basins do predict an increased propensity for conflict, but found no correlation between conflict and drought, the number of river crossings, or the share of the basin upstream, leading them to state that “support for a scarcity theory of water conflict is somewhat ambiguous.”42

#### No risk of water wars---historical evidence all concludes neg---cooperation is way more likely and solves

Jeremy Allouche 11 is currently a Research Fellow at the Institute of Development Studies at the University of Sussex. "The sustainability and resilience of global water and food systems: Political analysis of the interplay between security, resource scarcity, political systems and global trade" Food PolicyVolume 36, Supplement 1, January 2011, Pages S3-S8 Accessed via: Science Direct Sciverse

Water/food resources, war and conflict

The question of resource scarcity has led to many debates on whether scarcity (whether of food or water) will lead to conflict and war. The underlining reasoning behind most of these discourses over food and water wars comes from the Malthusian belief that there is an imbalance between the economic availability of natural resources and population growth since while food production grows linearly, population increases exponentially. Following this reasoning, neo-Malthusians claim that finite natural resources place a strict limit on the growth of human population and aggregate consumption; if these limits are exceeded, social breakdown, conflict and wars result. Nonetheless, it seems that most empirical studies do not support any of these neo-Malthusian arguments. Technological changeand greater inputs of capital have dramatically increased labour productivity in agriculture**.** More generally, the neo-Malthusian view has suffered because during the last two centuries humankind has breached many resource barriers that seemed unchallengeable.

Lessons from history: alarmist scenarios, resource wars and international relations

In a so-called age of uncertainty, a number of alarmist scenarios have linked the increasing use of water resources and food insecurity with wars. The idea of water wars (perhaps more than food wars) is a dominant discourse in the media (see for example Smith, 2009), NGOs (International Alert, 2007) and within international organizations (UNEP, 2007). In 2007, UN Secretary General Ban Ki-moon declared that ‘water scarcity threatens economic and social gains and is a potent fuel for wars and conflict’ (Lewis, 2007). Of course, this type of discourse has an **instrumental purpose**; security and conflict are here used for raising water/food as key policy priorities at the international level.

In the Middle East, presidents, prime ministers and foreign ministers have also used this bellicose rhetoric. Boutrous Boutros-Gali said; ‘the next war in the Middle East will be over water, not politics’ (Boutros Boutros-Gali in Butts, 1997, p. 65). The question is not whether the sharing of transboundary water sparks political tension and alarmist declaration, but rather to what extent water has been a principal factor in international conflicts. The evidence seems quite weak. Whether by president Sadat in Egypt or King Hussein in Jordan, none **of these declarations have been followed up by military action**.

The governance of transboundary water has gained increased attention these last decades. This has a direct impact on the global food system as water allocation agreements determine the amount of water that can used for irrigated agriculture. The likelihood of conflicts over water is an important parameter to consider in assessing the stability, sustainability and resilience of global food systems.

None **of the** various and extensive databases on the causes of war show water as a casus belli. Using the International Crisis Behavior (ICB) data set and supplementary data from the University of Alabama on water conflicts, Hewitt, Wolf and Hammer found only seven disputes where water seems to have been at least a partial cause for conflict (Wolf, 1998, p. 251). In fact, about 80% of the incidents relating to water were limited purely to governmental rhetoric intended for the electorate (Otchet, 2001, p. 18).

As shown in The Basins At Risk (BAR) water event database, **more than two-thirds of over 1800 water-related ‘events’ fall on the ‘cooperative’ scale** (Yoffe et al., 2003). Indeed, if one takes into account a much longer period, the following figures clearly demonstrate this argument. According to studies by the United Nations Food and Agriculture Organization (FAO), organized political bodies signed between the year 805 and 1984 more than 3600 water-related treaties, and approximately 300 treaties dealing with water management or allocations in international basins have been negotiated since 1945 ([FAO, 1978] and [FAO, 1984]).

The fear around water wars have been driven by a Malthusian outlook which equates scarcity with violence, conflict and war. There is however **no direct correlation between water scarcity and transboundary conflict**. Most specialists now tend to agree that the major issue is not scarcity per se but rather the allocation of water resources between the different riparian states (see for example [Allouche, 2005], [Allouche, 2007] and [Rouyer, 2000]). Water rich countries have been involved in a number of disputes with other relatively water rich countries (see for example India/Pakistan or Brazil/Argentina). The perception of each state’s estimated water needs really constitutes the core issue in transboundary water relations. Indeed, whether this scarcity exists or not in reality, perceptions of the amount of available water shapes people’s attitude towards the environment (Ohlsson, 1999). In fact, some water experts have argued that scarcity drives the process of co-operation among riparians ([Dinar and Dinar, 2005] and [Brochmann and Gleditsch, 2006]).

In terms of international relations, the threat of water wars due to increasing scarcity **does not make much sense in the light of the recent** historical record. Overall, the water war rationale expects conflict to occur over water, and appears to suggest that violence is a viable means of securing national water supplies, an argument which is highly contestable.

The debates over the likely impacts of climate change have again popularised the idea of water wars. The argument runs that climate change will precipitate worsening ecological conditions contributing to resource scarcities, social breakdown, institutional failure, mass migrations and in turn cause greater political instability and conflict ([Brauch, 2002] and [Pervis and Busby, 2004]). In a report for the US Department of Defense, Schwartz and Randall (2003) speculate about the consequences of a worst-case climate change scenario arguing that water shortages will lead to aggressive wars (Schwartz and Randall, 2003, p. 15). Despite growing concern that climate change will lead to instability and violent conflict, **the evidence base to substantiate the connections is thin** ([Barnett and Adger, 2007] and [Kevane and Gray, 2008]).

### No Asia War

#### Multiple factors make Asia war unlikely

Vannarith 10—Executive Director of the Cambodian Institute for Cooperation and Peace. PhD in Asia Pacific Studies, Ritsumeikan Asia Pacific U (Chheang, Asia Pacific Security Issues: Challenges and Adaptive Mechanism, <http://www.cicp.org.kh/download/CICP%20Policy%20brief/CICP%20Policy%20brief%20No%203.pdf>)

Some people look to China for economic and strategic interests while others still stick to the US. Since, as a human nature, change is not widely acceptable due to the high level of uncertainty. It is therefore logical to say that most of the regional leaders prefer to see the status quo of security architecture in the Asia Pacific Region in which US is the hub of security provision. But it is impossible to preserve the status quo since China needs to strategically outreach to the wider region in order to get necessary resources especially energy and raw materials to maintain her economic growth in the home country. It is understandable that China needs to have stable high economic growth of about 8 percent GDP growth per year for her own economic and political survival. Widening development gap and employment are the two main issues facing China. Without China, the world will not enjoy peace, stability, and development. China is the locomotive of global and regional economic development and contributes to global and regional peace and stability. It is understandable that China is struggling to break the so-called containment strategy imposed by the US since the post Cold War. Whether this tendency can lead to the greater strategic division is still unknown. Nevertheless, many observers agree that whatever changes may take place, a multi-polar world and multilateralism prevail. The reasons or logics supporting multilateralism are mainly based on the fact that no one country can really address the security issues embedded with international dimension, no one country has the capacity to adapt and adopt to new changes alone, and it needs cooperation and coordination among the nation states and relevant stakeholders including the private sector and civil societies. Large scale interstate war or armed conflict is **unthinkable** in the region due to the high level of interdependency and democratization. It is believed that economic interdependency can reduce conflicts and prevent war. Democracy can lead to more transparency, accountability, and participation that can reduce collective fears and create more confidence and trust among the people in the region. In addition, globalism and regionalism are taking the center stage of national and foreign policy of many governments in the region except North Korea. The combination of those elements of peace is necessary for peace and stability in the region and those elements are **present and being improved in this region.**

### No Indo-Pak War

#### No Indo-Pak war

Turkish Weekly 11 (28 July 2011, India and Pakistan Pledge 'New Spirit of Cooperation', http://www.turkishweekly.net/news/120330/india-and-pakistan-pledge-39-new-spirit-of-cooperation-39-.html)

The foreign ministers of India and Pakistan have called for a new spirit of cooperation between their countries.

SM Krishna and Hina Rabbani Khar are holding talks in Delhi, the first such meeting between the two nuclear rivals in a year.

The meeting comes five months after the South Asian neighbors resumed bilateral discussions.

Talks were suspended after the 2008 Mumbai (Bombay) attacks which India blamed on Pakistan-based militants.

But earlier this year, leaders vowed to resume their dialogue.

Correspondents say the talks are unlikely to throw up any major policy statements, but they will be another step in improving relations between the neighbors.

Indian Foreign Minister SM Krishna said before the meeting that his country wanted to see ""a stable, smooth and prosperous Pakistan"".

Khar, Pakistan's newly appointed and first ever female foreign minister, said ties between the two countries ""should not be held hostage to the past.""

But soon after her arrival in India on Tuesday, she met with Kashmiri separatist leaders, a move that would not have gone down well with her hosts, says the BBC's Sanjoy Majumder in Delhi.

The two sides are expected to discuss the contentious issue of disputed Kashmir.

The Himalayan region is claimed by both India and Pakistan in its entirety, but has been divided since 1948. It has been the cause of three wars between the countries.

India will also press Pakistan to take action against militant groups based on its soil, especially those perceived to be behind the 2008 Mumbai attacks.

Since February, Indian and Pakistani officials have met to discuss a range of issues in an attempt to find ways to build trust and promote peace.

Last month, the foreign secretaries of the two countries held two days of talks where they agreed to discuss new nuclear confidence-building measures.

### Middle East War

#### ME war won’t escalate---empirics prove

Cook 7**—**CFR senior fellow for Mid East Studies. BA in international studies from Vassar College, an MA in international relations from the Johns Hopkins School of Advanced International Studies, and both an MA and PhD in political science from the University of Pennsylvania(Steven, Ray Takeyh, CFR fellow, and Suzanne Maloney, Brookings fellow, 6 /28, Why the Iraq war won't engulf the Mideast, http://www.iht.com/bin/print.php?id=6383265, AG)

Underlying this anxiety was a scenario in which Iraq's sectarian and ethnic violence spills over into neighboring countries, producing conflicts between the major Arab states and Iran as well as Turkey and the Kurdistan Regional Government. These wars then destabilize the entire region well beyond the current conflict zone, involving heavyweights like Egypt. This is scary stuff indeed, but with the exception of the conflict between Turkey and the Kurds, the scenario is far from an accurate reflection of the way Middle Eastern leaders view the situation in Iraq and calculate their interests there. It is abundantly clear that major outside powers like Saudi Arabia, Iran and Turkey are heavily involved in Iraq. These countries have so much at stake in the future of Iraq that it is natural they would seek to influence political developments in the country. Yet, the Saudis, Iranians, Jordanians, Syrians, and others are very unlikely to go to war either to protect their own sect or ethnic group or to prevent one country from gaining the upper hand in Iraq. The reasons are fairly straightforward. First, Middle Eastern leaders, like politicians everywhere, are primarily interested in one thing: self-preservation. Committing forces to Iraq is an inherently risky proposition, which, if the conflict went badly, could threaten domestic political stability. Moreover, most Arab armies are geared toward regime protection rather than projecting power and thus have little capability for sending troops to Iraq. Second, there is cause for concern about the so-called blowback scenario in which jihadis returning from Iraq destabilize their home countries, plunging the region into conflict. Middle Eastern leaders are preparing for this possibility. Unlike in the 1990s, when Arab fighters in the Afghan jihad against the Soviet Union returned to Algeria, Egypt and Saudi Arabia and became a source of instability, Arab security services are being vigilant about who is coming in and going from their countries. In the last month, the Saudi government has arrested approximately 200 people suspected of ties with militants. Riyadh is also building a 700 kilometer wall along part of its frontier with Iraq in order to keep militants out of the kingdom. Finally, there is no precedent for Arab leaders to commit forces to conflicts in which they are not directly involved. The Iraqis and the Saudis did send small contingents to fight the Israelis in 1948 and 1967, but they were either ineffective or never made it. In the 1970s and 1980s, Arab countries other than Syria, which had a compelling interest in establishing its hegemony over Lebanon, never committed forces either to protect the Lebanese from the Israelis or from other Lebanese. The civil war in Lebanon was regarded as someone else's fight. Indeed, this is the way many leaders view the current situation in Iraq. To Cairo, Amman and Riyadh, the situation in Iraq is worrisome, but in the end it is an Iraqi and American fight. As far as Iranian mullahs are concerned, they have long preferred to press their interests through proxies as opposed to direct engagement. At a time when Tehran has access and influence over powerful Shiite militias, a massive cross-border incursion is both unlikely and unnecessary. So Iraqis will remain locked in a sectarian and ethnic struggle that outside powers may abet, but will remain within the borders of Iraq. The Middle East is a region both prone and accustomed to civil wars. But given its experience with ambiguous conflicts, **the region has** also **developed an intuitive ability to contain its civil strife and prevent local conflicts from enveloping the entire Middle East.**