# \*\*\*1NC\*\*\*

# 1

**Immigration will pass because Obama has enough PC**

Matt **Spetalnick and** Richard **Cowan, 2/4**/13, obama to lobby for immigration reform amid citizenship dispute, www.reuters.com/article/2013/02/04/us-usa-immigration-idUSBRE9130V620130204

President Barack **Obama will seek …** immigrants once the U.S. economy improves.

**SMRs cause political feuds**

**Greenwire, 9-24,** 12, <http://www.eenews.net/public/Greenwire/2012/09/24/3> “DOE Funding for Small Reactors Languishes as Parties Clash on Debt”

Likewise, **top energy officials in ,…** that I know how to do that."

**Path to citizenship key to resolve budget shortfalls**

Cynthia Tucker, The Philly Trib, 11/29 (Immigrants can help, not hurt, budget deficit, http://www.phillytrib.com/tribune/tribunecommentary/16077-immigrants-can-help-not-hurt-budget-deficit.html)

If you've spent any time pondering …. running up the costs of health care.

**That’s key to avert devastating final economic collapse and war**

Robert Morley, The Trumpet Print, February 2011 edition (America: Only Two More Years?, http://www.thetrumpet.com/index.php?q=7756.0.131.0)

**Two years.** That is how much time … “I mean within the next two years.”

**Nuclear war – kills millions**

Geoffrey Kemp, ‘10 (Director of Regional Strategic Programs at The Nixon Center, served in the White House under Ronald Reagan, special assistant to the president for national security affairs and senior director for Near East and South Asian affairs on the National Security Council Staff, Former Director, Middle East Arms Control Project at the Carnegie Endowment for International Peace, 2010, The East Moves West: India, China, and Asia’s Growing Presence in the Middle East, p. 233-4)

The second scenario, called Mayhem and Chaos, … for two-thirds of the planet’s population.

**Labor crisis in aerospace now – temporary workers key to industry competitiveness and innovation**

**AIAA 10** [American Institute of Aeronautics and Astronautics, "Recruiting, retaining, and developing a world-class aerospace workforce: An AIAA Information Paper, presented at the AIAA's 13th Annual AIAA Congressional Visits Day in March 2010, pdf, <http://www.doleta.gov/brg/indprof/aerospace_report.pdf>]

Without a strong aerospace workforce, … nationals in STEM professions critical to the aerospace industry.

# 2

**Russian natural gas revenue is rebounding – prices will reach an equilibrium and they are gaining footholds in markets to survive decreased demand**

Seeking Alpha 12-12 ("Why Gazprom is a Steal," seekingalpha.com/article/1059311-why-gazprom-is-a-steal)

Harry Beck wrote a good article a …. beneficial to its largest enterprise.

**Nuclear development reduce natural gas prices**

**Adams 9** (Rod Adams, “Nuclear Energy Growth Might Turn Promises of Low Natural Gas Prices Into a Reality,” 11/6/9) <http://atomicinsights.com/2009/11/nuclear-energy-growth-might-turn-promises-of-low-natural-gas-prices-into-a-reality.html>

Just yesterday, I wrote a lengthy … sage energy price prediction geniuses.

**North America spills over**

Jaffe and O’Sullivan 12 Amy Myers Jaffe is the Wallace S. Wilson Fellow in Energy Studies at the James A. Baker III Institute for Public Policy at Rice University, and Meghan L. O’Sullivan is the Jeane Kirkpatrick Professor of the Practice of International Affairs at the John F. Kennedy School at Harvard University. "The Geopolitics of Natural Gas," July, http://bakerinstitute.org/publications/EF-pub-HKSGeopoliticsOfNaturalGas-073012.pdf

Knowledge of the shale gas resource is not new. Geologists … until lower-cost Iraqi gas is able to flow into the line.

**Russia’s gas dominance is the lifeblood of its economy-oil can’t compensate**

Lindsay **Wright 9**, contributor to the Pipeline and Gas Journal August 2009 (PIPELINE POLITICS: RUSSIA’S NATURAL GAS DIPLOMACY; Vol. 236 No. 8)

**Natural resources are the lifeblood of the …** of Gazprom’s pipelines crisscrossing the continent.

**Russian economic decline causes nuclear war**

**FILGER 2009** (Sheldon, author and blogger for the Huffington Post, “Russian Economy Faces Disastrous Free Fall Contraction” http://www.globaleconomiccrisis.com/blog/archives/356)

In Russia historically, economic health and …. of the Global Economic Crisis is its least dangerous consequence.

# 3

**Counterplan Text:** The United States federal goverment should:

-substantially increase the deployment of delay/disruption tolerant networking on its satellites

-fully fund an emergency communications architecture, for the commercial grid and critical defense infrastructure

-invest in additional pre-positioned satellite and ground equipment capacity throughout the United States, expand federal interoperability grant funding and guidance, and modify public safety communications grant funding programs to place greater emphasis on satellite communications.

**Solves critical infrastructure communications even in disaster or attack scenarios where traditional communications are compromised**

**Navarro et al. 11** – (2011, M. Cao, J. Navarro, M. Alvarez Campana, Telematic Systems Engineering Department, Technical University of Madrid, L. Collantes, M. C. Dominguez Gonzalez, Indra, Madrid, Spain, J. Garcia, Repsol, Madrid, Spain, “A Hybrid DTN/MANET Communication Model for Protection of Critical Energy Infrastructure,” IEEE)

Generally, in this kind of infrastructures the most … main conclusions derived from this work.

**SBNN’s solve persistent communications EVEN IF ground nodes are compromised**

**NSTAC 09** – (Nov. 2009, National Securtiy Telecommunications Advisory Committee, “NSTAC Report to the President on Commercial Satellite Communications Mission Assurance,” <http://www.ncs.gov/nstac/reports/2009/NSTAC%20STF%20Report%20FINAL%2011302009.pdf>)

The DoD is currently exploring the … provide NS/EP network communications over a satellite.

# 4

**More nuclear power means more beryllium consumption—even a modest increase would consume world supplies**

**PHYS.ORG 2011** (“Why nuclear power will never supply the world's energy needs,” May 11, http://phys.org/news/2011-05-nuclear-power-world-energy.html#jCp)

Exotic metals: The nuclear containment vessel … would be better spent on a fully scalable technology.

**Beryllium is key to Galileo—that’s key to the European economy**

**BEST 2012** (Beryllium Science & Technology Association, “The Benefits That Beryllium Brings To Society,” http://beryllium.eu/about-beryllium-and-beryllium-alloys/the-benefits-that-beryllium-brings-to-society/)

Beryllium is critical to the Galileo … social benefits, not counting the benefit of independence.”

**Key to US/EU ties**

**CUTTER et al 2004** (W. Bowman Cutter • Co-Chair Paula Stern • Co-Chair Frances G. Burwell • Project Director Peter S. Rashish • Rapporteur of the Atlantic Council, “The Transatlantic Economy in 2020: A Partnership for the Future?” November 1, http://www.acus.org/publication/transatlantic-economy-2020-partnership-future)

The future of the transatlantic economy … to Europe when seeking cooperation may fade.

**US EU relations solve global nuclear war and accidents**

**Hamilton and Burwell 09** – (2009, Daniel, PhD in American foreign policy from the Johns Hopkins School of Advanced International Studies, Executive Director of the Center for Transatlantic Relations; Executive Director of the American Consortium on EU Studies; Austrian Marshall Plan Foundation Research Professor, and Frances, PhD in Government and Politics from UMD, Atlantic Council vice president, and director of the Program on Transatlantic Relations at the Atlantic Council, former executive director of the Center for International and Security Studies at the University of Maryland, “Shoulder to Shoulder: Forging a Strategic U.S.-EU Partnership,” http://www.realinstitutoelcano.org/wps/wcm/connect/30ce96004082f3dab155bf5e01ac4adf/shoulder\_to\_shoulder\_strategic\_US\_UE\_partnership.pdf?MOD=AJPERES&CACHEID=30ce96004082f3dab155bf5e01ac4adf)

The world that created the transatlantic partnership is fading fast….networks that move freely across borders.

# 5

The United States federal government should substantially increase the procurement of nuclear-powered ships for the US navy. The United States federal government should substantially increase its procurement of hydrogen-fuel cell powered drones, and the hydrogen necessary for those drones.

# 1nc grid

**Squo solves grid**

**Aimone, 9/12**/12 - Director Business Enterprise Integration Office of the Deputy Under Secretary of Defense (Installations and Environment) (Michael, Congressional Testimony, <http://homeland.house.gov/sites/homeland.house.gov/files/Testimony%20-%20Aimone.pdf>)

DoD’s facility energy strategy is also … OK (Eaton); and several other installations.

**Cyber attacks aren’t a thing**

**Rid 12** (Thomas Rid, Department of War Studies, King's College London, “Think Again: Cyberwar,” March 2012) <http://www.foreignpolicy.com/articles/2012/02/27/cyberwar?page=full>

"Cyberwar Is Already Upon Us." No way. "Cyberwar is coming!" …. This is the true cyberwar they are fighting.

# shipbuilding

**Squo solves demand – new Navy shipbuilding demand is high enough**

**Munoz 12** – (4/2/12, Carlo, the Hill, “Panetta: Reduced Navy fleet size won’t sink US shipbuilding, defense industries,” http://thehill.com/blogs/defcon-hill/navy/219517-panetta-new-navy-ship-strategy-will-support-us-industrial-base)

The Navy's new five-year shipbuilding plan provides adequate support for U.S. defense industry firms, even if it calls for a smaller number of vessels, according to Defense Secretary Leon Panetta.

The new plan, sent to Congress last Wednesday, is based on the goal of building a 300-ship fleet for the Navy.

That plan falls short of the service's original 313-ship minimum it had set in previous years.

It also falls well short of the 500-ship fleet service leaders say is required to meet the base demands of U.S. combat commanders around the globe.

"There'll be some ups and downs and there are some ships that obviously we'll draw down that are outdated. But overall, **we are going to . . . not only maintain, but increase our ships in the Nav**y," Panetta told reporters Sunday after a speech aboard the USS Peleliu.

The ship strategy, he added, **will generate enough work to keep U.S. shipbuilders afloat**, according to Panetta.

"I want to maintain our industrial base for the future so that we can produce the ships we need for the future. And I want to do it in American shipyards," he said.

**The problem isn’t industry – the Navy can’t afford to procure enough ships**

**Clark 11** – (7/13/11, Colin, founding editor of DoDBuzz.com, “Navy May Be Force of Future, But Will Its Ships Sail,” http://defense.aol.com/2011/07/13/navys-may-be-force-of-future-but-will-its-ships-sail/)

In an interview this afternoon, Forbes said **… U.S. interests suffer, especially in the Pacific.**

**Expanding nuclear power plants causes poaching from the Navy—causes crew shortages**

**STRATEGY PAGE 2009** (The Great Geek Shortage At Sea, December 29, http://www.strategypage.com/htmw/htatrit/articles/20091229.aspx?comments=Y#startofcomments)

The U.S. Navy is now paying … will remain because of even larger bonuses.

**Retaining high-quality personnel is key to Naval power**

**OLIVER 1999** (Vice Admiral D.T. Oliver, Dept Chief of Navy Ops for Manpower and Personnel, Congressional Testimony, March 24, http://www.navy.mil/navydata/testimony/personnel/oliv0324.txt)

The perennial truth of military readiness is … the legislative personnel proposals included in the President's Budget.

Tensions are inevitable, but there will be no conflict

Douglas H. **Paal** is vice president for studies at the Carnegie Endowment for International Peace, **9/6**/2012, "Asia's Maritime Disputes: How to Lower the Heat," carnegieendowment.org/2012/09/06/asia-s-maritime-disputes-how-to-lower-heat/drrv

The competing sovereign claims are … avoid provoking predictably counterproductive reactions.

**China conflict impossible – past incidents prove**

**Cohen and Zenko 12** (Micah Zenko, Fellow for Conflict Prevention at the CFR, and Michael A Cohen, Senior Fellow at the American Security Project, serves on the board of the National Security Network and has taught at Columbia University’s School of International and Public Affairs, served in the U.S. Department of State, former Senior Vice President at the strategic communications firm of Robinson, Lerer and Montgomery, bachelor’s degree in international relations from American University and a master’s degree from Columbia University, Foreign Affairds, “National Insecurity: Just How Safe Is the United States?”

Finally, Miller argues that "a militarized … than it did during the Cold War."

**Multiple factors ensure cooperation**

Zhu ’12 – professor in the School of International Studies and the deputy director of the Center for International and Strategic Studies at Beijing University (Zhu Feng, “No One Wants a Clash,” May 3, New York Times, <http://www.nytimes.com/roomfordebate/2012/05/02/are-we-headed-for-a-cold-war-with-china/no-one-wants-a-cold-war-between-the-us-and-china>)

However there is little worry that … but mutual interest — especially in trade.

# hydrogen

**Hydrogen is NOWHERE close to working – countless technical problems**

**Blees 8** (Tom Blees, president of the Science Council for Global Initiatives, member of the selection committee for the Global Energy Prize, “Prescription for the Planet”) <http://www.thesciencecouncil.com/pdfs/P4TP4U.pdf>

If you asked a random sampling of …. "Hydrogen storage is a potential show stopper." 95

**Hydrogen kill the ozone layer – make planet unlivable**

**Blees 8** (Tom Blees, president of the Science Council for Global Initiatives, member of the selection committee for the Global Energy Prize, “Prescription for the Planet”) <http://www.thesciencecouncil.com/pdfs/P4TP4U.pdf>

Yeah, it sounds pretty grim. But …. for fear of rendering our planet unlivable.

**Terrorist groups will never get a workable nuclear weapon – insurmountable barriers**

**Brooks 10** (Barry Brooks, Professor of Climate Change University of Adelaide, guest post by a Canadian chemist and materials scientist, “Analysis of the 2010 Nuclear Summit and the obsession with highly enriched uranium,” 5/15/10) <http://bravenewclimate.com/2010/04/15/dv82xl/>

First let’s make one thing very clear: … any nearer to realizing this ambition,

**Too many technical and epidemiological barriers**

**Washington Post 04** (12/30, “Technical Hurdles Separate Terrorists From Biowarfare.” John Mintz, staff writer. Lexis.)

In 2002, a panel of biowarfare experts … one gram of anthrax, or 1 trillion spores.

**None of this is key – we’re going to dominate anyway**

**Kagan 12** (Robert Kagan, senior fellow in foreign policy at the Brookings Institution and a columnist for The Washington Post, “Not Fade Away,” 1/11/12) http://www.tnr.com/article/politics/magazine/99521/america-world-power-declinism?passthru=ZDkyNzQzZTk3YWY3YzE0OWM5MGRiZmIwNGQwNDBiZmI&utm\_source=Editors+and+Bloggers&utm\_campaign=cbaee91d9d-Edit\_and\_Blogs&utm\_medium=email

The answer is no. Let’s start … moment has not yet arrived.

**All the challengers are even worse off**

**Kaplan and Kaplan 2011** – \*national correspondent for The Atlantic, senior fellow at CNAS, \*\*30-year CIA vet, vice chairman of the National Intelligence Council (2/23, Robert and Stephen, The National Interest, “America primed”, <http://nationalinterest.org/article/america-primed-4892>)

In terms of acute threats, Iran is the … Russia enjoy nothing comparable.

# \*\*\*2NC\*\*\*

**Squo solves – DOD is already taking measures to island the grid**

**Roberts 13** (David, “U.S. military gets serious about microgrids … which is more exciting than it sounds,” 01/18/13, http://grist.org/climate-energy/u-s-military-gets-serious-about-microgrids-which-is-more-exciting-than-it-sounds/?utm\_campaign=daily&utm\_medium=email&utm\_source=newsletter&utm\_content=readmore)

Anyway, that’s the battlefield microgrid … the civilian world. Should be fun to watch.

**No cyberwar – its overblown**

**Cohen and Zenko 12** (Micah Zenko, Fellow for Conflict Prevention at the CFR, and Michael A Cohen, Senior Fellow at the American Security Project, serves on the board of the National Security Network and has taught at Columbia University’s School of International and Public Affairs, served in the U.S. Department of State, former Senior Vice President at the strategic communications firm of Robinson, Lerer and Montgomery, bachelor’s degree in international relations from American University and a master’s degree from Columbia University, Foreign Affairds, Vol. 91, Iss. 2; pg. 79, “**The United States Is More Secure Than Washington Thinks,” Mar/Apr 2012)**

A more recent bogeyman in national security … commonsense prevention and mitigation efforts.

**Can’t transition to hydrogen – space, energy input and cost**

**Friedemann 8** (Alice, member of the Northern California Science Writers Association, degree in Biology and Chemistry/Physics, currently she is a systems architect/engineer in the San Francisco Bay Area, http://www.energybulletin.net/node/2401)

No matter how it’s been made, hydrogen …. more energy efficient and low in CO2 generation than projected fuel cells.

**Hydrogen isn’t feasible for military use – transportation and storage, best case scenario is 30 years away**

**Blackwell 7** (Kristine E. Blackwell is a National Defense Fellow, 6/15/07, “The Department of Defense: Reducing Its Reliance on Fossil-Based Aviation Fuel – Issues for Congress,” http://ftp.fas.org/sgp/crs/natsec/RL34062.pdf)

A number of obstacles prohibit the … its use as an aviation fuel.60

**No extinction**

**O’Neill 4** O’Neill 8/19/2004 [Brendan, “Weapons of Minimum Destruction” http://www.spiked-online.com/Articles/0000000CA694.htm]

David C Rapoport*,* professor of political science …. attacked'. The Tigers have not used WMD since.

**The nuclear industry will target the Navy for personnel**

**ATLANTA JOURNAL CONSTITUTION 2012** (Nuclear industry looks to Navy to fill worker shortage, August 24, http://www.ajc.com/news/business/nuclear-industry-looks-to-navy-to-fill-worker-shor/nRMQ9/)

It's a "brain drain" of sorts, but it's one the nuclear power … in the commercial nuclear business," Trautman said.

**Extinction genetically impossible and ahistorical**

**Posner 2005 (**Richard A., Judge U.S. Court of Appeals 7th Circuit, Professor Chicago School of Law, January 1, 2005, Skeptic, Altadena, CA, Catastrophe: Risk and Response, <http://goliath.ecnext.com/coms2/gi_0199-4150331/Catastrophe-the-dozen-most-significant.html#abstract>)

Yet the fact that Homo sapiens … lethal pathogen than smallpox ever was.

**No water wars – even otherwise hostile geopolitical conditions promote cooperation not conflict**

**Wolf 7** – (2007, Aaron, PhD in environmental policy analysis, MS in water resources management, professor of geography in the College of Earth, Ocean, and Atmospheric Sciences at Oregon State University, “Shared Waters: Conﬂict and Cooperation,” Annu. Rev. Environ. Resour. 2007. 32:3.1–3.29, <http://protosh2o.act.be/VIRTUELE_BIB/Water_in_de_Wereld/CON-Waterconflicten_en_rampen/W_CON_E23_shared_waters.pdf>)

There is room for optimism, though, …. outweigh water’s conﬂict-inducing characteristics.

**And, no water wars**

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

A number critiques have been leveled … theory of water conflict is somewhat ambiguous.”42

**Widespread desalination destroys sensitive coastal ecosystems – combination of impingement and entrainment kills species throughout the whole ecosystem**

**Pappas 11** – (2011, Michael, Forrester Fellow and Instructor in Legal Writing, Tulane Law School, JD from Stanford Law School, “Unnatural Resource Law: Situating Desalination in Coastal Resource and Water Law Doctrines,” Tulane Law Review, Vol. 86:81, 2011, ssrn)

In addition to the monetary cost, desalination also …. populations or coastal/estuarine ecosystems.27

**Coastal ecosystems affect global ecosystem services and human well being**

**Brown et al. 6** – (2006, Claire, PhD, Senior Programme Officer, Ecosystem Services and Assessment at United Nations Environment Programme-World Conservation Monitoring Centre, Emily Corcoran, Peter Herkenrath, Jillian Thonell, Jackie Alder, Russell Arthurton, Neville Ash, Salif Diop, Sherry Heileman, Michael Huber, Francisco Arias-Izasa, Kwame Koranteng, Carmen Lacambra, Karen McLeod, Elvina Payet, Nishanthi Perera, Lingzis DanLing Tang, Mark Spalding, and Kaveh Zahedi, all badass scientists at the UN, “MARINE AND COASTAL ECOSYSTEMS AND HUMAN WELL-BEING,” http://www.sesame-ip.eu/doc/MMA\_Marine\_ecosystems\_and\_human\_well\_being.pdf)

■ Coastal areas are characterized by high …. the overexploitation of marine and coastal ecosystems.

**Extinction**

**Craig 03** – (Robin Kundis, Associate Professor of Law at the Indiana University School of Law, “Taking Steps Toward Marine Wilderness Protection? Fishing and Coral Reef Marine Reserves in Florida and Hawaii,” McGeorge Law Review (34 McGeorge L. Rev. 155), Winter, lexis)

Biodiversity and ecosystem function arguments for … the Black Sea is not necessarily unique.

**Adverse environmental impacts outweigh the benefits – only our evidence is comparative**

**Pappas 11** – (2011, Michael, Forrester Fellow and Instructor in Legal Writing, Tulane Law School, JD from Stanford Law School, “Unnatural Resource Law: Situating Desalination in Coastal Resource and Water Law Doctrines,” Tulane Law Review, Vol. 86:81, 2011, ssrn)

The costs and benefits of desalination also make it … the limited resource of desalination becomes even more necessary.

**Water sharing solves – ensures that tensions don’t escalate to war**

**Wolf 07** – (2007, Aaron, PhD in environmental policy analysis, MS in water resources management, professor of geography in the College of Earth, Ocean, and Atmospheric Sciences at Oregon State University, “Shared Waters: Conﬂict and Cooperation,” Annu. Rev. Environ. Resour. 2007. 32:3.1–3.29, <http://protosh2o.act.be/VIRTUELE_BIB/Water_in_de_Wereld/CON-Waterconflicten_en_rampen/W_CON_E23_shared_waters.pdf>)

Throughout this review, we will note that shared water does lead to tensions, threats, and even to some localized violence—and we will offer strategies for preventing and mitigating these tensions—but **not to war**. Moreover, these tense “ﬂashpoints” generally induce the parties to enter negotiations, often resulting in dialogue and, occasionally, to especially creative and resilient working arrangments. We note also that shared water provides compelling inducements to dialogue and cooperation, **even while hositities rage over other issues.**

**Affects overall ocean biodiversity – kills larvae of a HUGE cross section of species**

**Earth Talk**, citing Earle, **NO DATE** – (Sylvia, PhD, oceanographer, aquanaut and author, former chief scientist at the U.S. National Oceanic and Atmospheric Administration, “Can Ocean Desalination Solve the World's Water Shortage?” http://environment.about.com/od/biodiversityconservation/a/desalination.htm)

On the environmental front, **widespread desalination …** from more practical solutions," the group says.

# \*\*\*1NR\*\*\*

**Less than half a percent in the squo –**

**Gleick 8** (Peter Gleick, president of the Pacific Institute, “Why don't we get our drinking water from the ocean by taking the salt out of seawater?” July 23, 2008)

Even with all of the water in Earth's oceans, we satisfy less than half a percent of human water needs with desalinated water.\* We currently use on the order of 960 cubic miles (4,000 cubic kilometers) of freshwater a year, and overall there's enough water to go around. There is increasing regional scarcity, though.

So why don't we desalinate more to alleviate shortages and growing water conflicts?

The problem is that the desalination of water requires a lot of energy. Salt dissolves very easily in water, forming strong chemical bonds, and those bonds are difficult to break. Energy and the technology to desalinate water are both expensive, and this means that desalinating water can be pretty costly.

It's hard to put an exact dollar figure on desalination—this number varies wildly from place to place, based on labor and energy costs, land prices, financial agreements, and even the salt content of the water. It can cost from just under $1 to well over $2 to produce one cubic meter (264 gallons) of desalted water from the ocean. That's about as much as two people in the U.S. typically go through in a day at home.

But switch the source to a river or an aquifer, and the cost of a cubic meter of water can plummet to 10 to 20 cents, and farmers often pay far less.

That means it's still almost always cheaper to use local freshwater than to desalinate seawater. This price gap, however, is closing. For example, meeting growing demand by finding a new source of water or by building a new dam in a place like California could cost up to 60 cents per cubic meter of water.

**Military procurement accelerates tech commercialization – it’s empirically proven**

**Hayward et al. 10** (Steven F. Hayward, Resident Scholar, American Enterprise Institute, Mark Muro, Senior Fellow, Metropolitan Policy Program, Brookings Institution, Ted Nordhaus and Michael Shellenberger, Cofounders, Breakthrough Institute, October 2010, “Post-Partisan Power,” http://thebreakthrough.org/blog/Post-Partisan%20Power.pdf)

The public sector, therefore, has a …. on the same fossil energy sources that have powered our nation since the 19th century.

**The plan is the only way to commercialize SMRs, otherwise they’ll never bridge the valley of death – means we get a unique link to all SMRs DAs**

**Andres & Breetz 11** (Richard B. Andres is Professor of National Security Strategy at the National War College and a Senior fellow and energy and environmental Security and Policy Chair in the Center for Strategic research, institute for national Strategic Studies, at the national Defense University. Hanna L. Breetz is a doctoral candidate in the Department of Political Science at the Massachusetts institute of technology. February 2011, “Small nuclear reactors for military installations: capabilities, costs, and technological implications,” http://www.ndu.edu/press/lib/pdf/StrForum/SF-262.pdf)

The “Valley of Death.” Given the … technologies, and demonstrating technical viability.32

**Manufacturing not key**

Ray **Fisman**, Slate, 7/16/**2012**, "The New Artisan Economy," www.slate.com/articles/business/the\_dismal\_science/2012/07/unemployment\_manufacturing\_and\_construction\_jobs\_aren\_t\_coming\_back\_americans\_need\_new\_skills\_.single.html

Few economists feel that there’s … hubs like Austin, San Francisco, and Boston.

**Nuclear power doesn’t create jobs, it trades off with coal jobs and results in net less employment**

**Tucker 12** (William Tucker, author of *Terrestrial Energy: How Nuclear Power Will Lead the Green Revolution and End America’s Energy Odyssey,* “Nuclear’s Dilemma: Few Jobs, Just Energy,” 8/24/12, <http://spectator.org/archives/2012/08/24/nuclears-dilemma-few-jobs-just>)

So how does nuclear stack up against all this? … six trucks making the trip once every 18 months.

**Hydrogen is just made by electrolysis, even if its uneconomic or something the dod can still just buy it**

**Blees 12** (Tom Blees, president of the Science Council for Global Initiatives and a board member of the UN-affiliated World Energy Forum, “Nuclear Roads Not Taken (Yet) in Germany, Japan and the US,” 5/31/12) <http://theenergycollective.com/barrybrook/86298/roads-not-taken-yet>

This means that the system would …. liquid fuel for automobiles or trucks.

**Doing r&d on hydogen**

**Stepp 12** (Matthew Stepp, Research Analyst at the Information Technology and Innovation Foundation, “President Obama Follows Through on Energy Innovation in 2013 Budget Request,” 2/15/12) <http://theenergycollective.com/breakthroughinstitut/76496/president-obama-follows-through-energy-innovation-2013-budget-request>

President Obama backed up his call to … vehicle batteries, but also next-generation natural gas

**Normal nuclear reactors can just make some of it**

**Barton 11** (Charles Barton, Nuclear Green, “Good and better forms of nuclear energy,” 1/15/11) <http://nucleargreen.blogspot.com/2011/01/good-and-better-forms-of-nuclear-energy.html>

\* Nuclear generated electricity will cost less to transmit to markets than solar or wind generating electricity

Needless to say these facts will be vehemently … to build than Liquid Salt cooled Pebble Bed Reactors.

**Nuclear power offsets future demand spikes that would increase the price of gas**

**Perry 12** (Mark J. Perry, professor of economics at the Flint campus of The University of Michigan and a scholar at The American Enterprise Institute, “Natural gas and nuclear power need to share the lead in power generation for the future,” 9/26/12) http://www.aei.org/article/energy-and-the-environment/conventional-energy/natural-gas-and-nuclear-power-need-to-share-the-lead-in-power-generation-for-the-future/

But natural gas is needed for much … less available for manufacturing and transportation.

**Exports will happen if prices stay low**

Goho 1-2 (Shaun, Lecturer at Harvard Law School and clinical instructor in the school's Emmett Environmental Law and Policy Clinic," In US, the Lure of Export May Further Fuel Natural Gas Boom," e360.yale.edu/feature/in\_us\_the\_lure\_of\_export\_may\_further\_fuel\_natural\_gas\_boom/2605

Although there have been previous … same thing could not occur with this one.

**Shale revolution isn’t killing Russia now**

**Vasspard 12** (Valentine Vasspard, “US shale gas to strike devastating blow on Russia's Gazprom,” 10/12/12) http://english.pravda.ru/business/companies/12-10-2012/122439-gazprom\_shale\_gas-0/

The near-term prospects for Russia … for the Shtockman field to rise again.

**Smrs in particular trade off with ngas**

Marston 12 (Theodore U. Marston PHD. – Principal @ Marston Consulting. Board of Managers, Idaho National Laboratory. Formerly DOE NERAC Generation IV Oversight Committee 2001-2002)

The primary economic challenge to … operate and decommission nuclear power plants.

**Specifically, SMRs solve market risk and fit the need to replace natural gas**

Rosner and Goldberg 11 (Robert Rosner, Professor, Departments of Astronomy and Astrophysics, and Physics, and the College; Senior Fellow @ UChicago. Stephen M. Goldberg is Special Assistant to the Director at Argonne National Laboratory)

(November 2011. Energy Policy Institute at Chicago The Harris School of Public Policy Studies “Small Modular Reactors – Key to Future Nuclear Power Generation in the U.S.” https://epic.sites.uchicago.edu/sites/epic.uchicago.edu/files/uploads/EPICSMRWhitePaperFinalcopy.pdf)

SMRs could potentially mitigate such a risk in several ways. First, … SMRs could potentially “fit the bill.”

**China isn’t an alternative – negotiations fail**

**Kuzmin 12 (**Viktor Kuzmin, “Russian natural gas to flow to India,” 10/19/12) http://indrus.in/articles/2012/10/19/russian\_natural\_gas\_to\_flow\_to\_india\_18487.html

Europe is currently the key market … China via a pipeline instead,” Simonov said.

Diminishing export prices crush Putin’s ability to buy off the opposition sparking violent uprising

Forbes 5/24 2012 (Russia's Economy is Still Growing, and Why This Matters; http://www.forbes.com/sites/markadomanis/2012/05/24/russias-economy-is-still-growing-and-why-this-matters/)

I’ve long been of the opinion that a regime … will muddle through for at least another few years.

Nuke war

PRY 1999 (Peter Vincent, Former US Intelligence Operative, War Scare: U.S.-Russia on the Nuclear Brink, netlibrary)

Russian internal troubles—such as … with the West ignorant that it was in grave peril.

**High prices are key to Russian stability**

Reguly 12 (Eric, The Globe and Mail, “For Russia, high energy prices a necessity, not a luxury,” http://m.theglobeandmail.com/report-on-business/for-russia-high-energy-prices-a-necessity-not-a-luxury/article4546314/?service=mobile)

No wonder the Kremlin is ramping up public … “primitive.” Today, he could add that it’s socially dangerous.