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## Plan text: The United States federal government should substantially increase loan guarantees for small modular thermal reactors in the United States.

# Contention One is Proliferation

## Nuclear power is increasing globally – demand ensures it’ll be large reactors

**Banks et al, Foreign Policy Energy Security Initiative nonresident fellow, 12-16**

(John P. “Nuclear Power in Developing Countries? Let's Talk about It.” 12-16. <http://www.brookings.edu/research/opinions/2012/12/16-nuclear-energy-banks-massy>. Accessed: 1/1/2013. ADC)

While the developed world gets cold feet …power, but commitments are pending.

## This will result in breakout proliferation-asymmetries undermine deterrence and ensure nuclear war-safeguards are key

**Sokolski, Nonproliferation Policy Education Center Executive Director, 09**

(Henry, June 1, 2009, “Avoiding a Nuclear Crowd”, http://www.hoover.org/publications/policy-review/article/5534, 10/3/12, atl)

Finally, several new nuclear … want. None of this, however, is inevitable.

## US construction is key to solve-SMR’s would out compete other models and a strong domestic industry ensures maintenance of the global gold standard.

**Miller, Bipartisan Policy Co-Chair for the Nuclear Initiative, 12**

(Dr. Warren F. “Pete” e-, Former DOE Assistant Secretary for Nuclear Energy, Senator Pete Domenici, July 2012, “Challenges and Opportunities Facing Nuclear Energy in the United States”, http://bipartisanpolicy.org/sites/default/files/Leadership%20in%20Nuclear%20Energy%20Markets.pdf, 8/14/12, atl)

Several other countries, by … and deployment (RD&D) programs.

## The plan causes other suppliers to model US practices-ensures no proliferation.

**Sokolski, Nonproliferation Policy Education Center Executive Director, 11**

(Henry, “The Post-Fukushima Arms Race?”, Foreign Policy, July, 29, 2011,http://www.foreignpolicy.com/articles/2011/07/29/the\_post\_fukushima\_arms\_race?print=yesandhidecomments=yesandpage=full, 10/9/12, atl)

A Japanese decision to resist temptation and … reluctantly in the past.

## Other countries follow the US lead-ensures they’ll pick SMR’s and implement safety measures

**Lieberman, American Physical Society senior government relations specialist, 11**

(Jodi, November 15, 2011 “Nonproliferation, Congress, and Nuclear Trade: Plus ça change, plus c’est la même chose” http://csis.org/files/publication/111116\_nonproliferation\_congress\_and\_nucleartrade.pdf)

U.S. Nonproliferation Influence While 123 agreements … will be held in South Korea in 2012.

## High risk of Asian prolif- US industry key to solve

**Ferguson, Federation of American Scientists President, 10**

(Charles, May 4, 2010, “Controlling Asia's Nuclear Power Tigers”, http://www.forbes.com/2010/05/04/asia-nuclear-power-markets-economy-national-security\_2.html, 9/3/12, atl)

Asia's nuclear power tigers are …proliferation-prone methods are not permitted.

## Proliferation causes nuclear war-crisis escalation, aggression, saving face, delegation and launch on warning guarantee it.

Kroenig, Georgetown University Government assistant professor, 12

(Matthew, Assistant Professor of Government at Georgetown University and Stanton Nuclear Security Fellow at Council on Foreign Relations, “The History of Proliferation Optimism: Does It Have A Future?,” 5-26-12, http://www.npolicy.org/article.php?aid=1182andrtid=2, accessed 10-2-12, mtf)

The proliferation optimist position, … opponents to back down.

## Status quo nuclear power will be based off Chinese designs-guarantees accidents and meltdowns

**Tu, Carnegie Energy and Climate Program senior associate, 12**

(Kevin Jianjun. “China’s Nuclear Crossroads.” 3-11. <http://carnegieendowment.org/2012/03/11/china-s-nuclear-crossroads>. Accessed: 9/30/2012. ADC)

It’s first important to acknowledge that the safety … that energy-thirsty China can’t afford to make.

## Nuclear accidents wreck biodiversity

Mousseau, USC biology professor, 2011

(TA, “Conservation consequences of Chernobyl and other nuclear accidents”, Biological Conservation Volume 144, Issue 12, December 2011, Pages 2787–2798, Science Direct, ldg)

The explosion at the Chernobyl nuclear … in species when they are rare.

**Extinction**

**Daily et al, Professor, Department of Biological Sciences Stanford, 7**

(11-19, Gretchen, Senior Fellow, Woods Institute for the Environment Director, Center for Conservation Biology Director, Interdisciplinary Program in Environment and Resources Chair, The Natural Capital Project, “ECOSYSTEM SERVICES: Benefits Supplied to Human Societies by Natural Ecosystems,” <http://www.sierraforestlegacy.org/Resources/Conservation/FireForestEcology/ForestEconomics/Economics-Daily97.pdf>) atw

In addition to the production of goods, **ecosystem …**beings trying to colonize the moon.

# Contention Two is Warming

**Newest and most rigorous studies conclude warming is anthropogenic – no alt causes**

**Muller, University of California-Berkeley physics professor, 12**

(Richard A., former MacArthur Foundation fellow, "The Conversion of a Climate-Change Skeptic," 7-28-12, http://www.nytimes.com/2012/07/30/opinion/the-conversion-of-a-climate-change-skeptic.html?pagewanted=all, accessed 8-10-12, mtf)

Call me a converted skeptic. Three years ago I … what can and should be done.

**Failure to solve warming causes extinction – geological history proves**

**Bushnell, NASA Langley Research Center chief scientist, 10**

(Dennis M. has a MS in mechanical engineering, won the Lawrence A. Sperry Award, AIAA Fluid and Plasma Dynamics Award, the AIAA Dryden Lectureship, and is the recipient of many NASA Medals for outstanding Scientific Achievement and Leadership, "Conquering Climate Change," The Futurist 44. 3, May/Jun 2010, ProQuest, accessed 10-3-12, mtf)

Unless we act, the next century could see …sound, they're actually conservative.

**Ocean acidification destroys marine biodiversity and leads to extinction**

**Romm, MIT Physics PhD, 10**

(Joe, Climate Progress editor, Senior Fellow at the American Progress, Acting Assistant Secretary of Energy for Energy Efficiency and Renewable Energy during the Clinton Administration, PhD in Physics from the Massachusetts Institute of Technology, "Nature Geoscience study: Oceans are acidifying 10 times faster today than 55 million years ago when a mass extinction of marine species occurred," 2-18-10, http://thinkprogress.org/climate/2010/02/18/205525/ocean-acidification-study-mass-extinction-of-marine-life-nature-geoscience/?mobile=nc#more-19529, accessed 10-3-12, mtf)

Marine life face some of the worst impacts. … **slashing carbon dioxide emissions is now**.

**Sea level rise causes extinction – even small rises matter**

**Sato, Daily Galaxy contributing editor, 8**

Rebecca, Contributing Editor at DailyGalaxy.com, former Head Writer at Freedom FastTrack “Can Changes in Sea Level Cause Periods of Mass Extinction?—A Galaxy Exclusive,” 6-19-08, http://www.dailygalaxy.com/my\_weblog/2008/06/changes-in-sea.html, accessed 10-3-12, mtf)

For years scientists have been trying to find … to induce. We, as a society, are not.”

**Other nations will model US investment – it’s a bellwether of nuclear tech**

**Adamantiades et al., ICG Aeolian Energy, 9**

(A. Adamantiades, ICG Properties is a real estate development firm; and I. Kessides, The World Bank, "Nuclear power for sustainable development: Current status and future prospects," Energy Policy Volume 37, Issue 12, December 2009, Science Direct, accessed 8-5-12, mtf)

This paper describes the current status and … **in other parts of the world**.

**Large-scale nuclear power transition solves warming – assumes resource and time restraints**

**Knapp et al., University of Zagreb professor, 10**

(Vladimir Knapp, Dubravko Pevec, and Mario Matijević, Faculty of Electrical Engineering and Computing, Department of Applied Physics, University of Zagreb in Croatia, "The potential of fission nuclear power in resolving global climate change under the constraints of nuclear fuel resources and once-through fuel cycles," Energy Policy Volume 38, Issue 11, November 2010, Science Direct, accessed 8-22-12, mtf)

In this study, we have investigated the … and for public acceptance of nuclear energy.

**Global commercialization key to check developing countries’ emissions**

**Kessides and Kuznetsov, World Bank chief economist, 12**

(Ioannis N., Development Research Group and The World Bank; and Vladimir, Consultant at The World Bank, "Small Modular Reactors for Enhancing Energy Security in Developing Countries," Sustainability 2012, 4.8, http://www.mdpi.com/2071-1050/4/8/1806/htm, accessed 9-29-12, mtf)

Increasing concerns related to …resistance, and reduced financial risk.

**Only the aff solves – alternative sources are of insufficient scope**

**Loudermilk, Institute for National Strategic Studies research associate, 11**

(Micah J., Research Associate for the Energy & Environmental Security Policy program with the Institute for National Strategic Studies at National Defense University, contracted through ASE Inc., "Small Nuclear Reactors and US Energy Security: Concepts, Capabilities, and Costs," IAGS Journal of Energy Security, May 2011 Issue, 5-31-11, http://www.ensec.org/index.php?option=com\_content&view=article&id=314:small-nuclear-reactors-and-us-energy-security-concepts-capabilities-and-costs&catid=116:content0411&Itemid=375, accessed 9-29-12, mtf)

Nuclear vs. Alternatives: a realistic picture When discussing … of the nation’s nuclear energy portfolio.

**No risk of link turns – complete nuclear power chain significantly reduces CO2 emissions**

**Adamantiades et al., ICG Aeolian Energy, 9**

(A. Adamantiades, ICG Properties is a real estate development firm; and I. Kessides, The World Bank, "Nuclear power for sustainable development: Current status and future prospects," Energy Policy Volume 37, Issue 12, December 2009, Science Direct, accessed 8-5-12, mtf)

2.3. Global climate change In 1990 a major …environmental effects of fossil fuel pollutants.

# Contention Three is Solvency

## Capitalization is key to nuclear commercialization-only the federal government can leverage the funds necessary

Bennett, Vice President for Public Affairs, Third Way, 10

(Matt, Josh Freed is Director of the Third Way Clean Energy initiative, Jeremy Ershow is a Policy Advisor at Third Way, “Breaking the Nuclear Financing Barrier,” February 10, http://content.thirdway.org/publications/265/Third\_Way\_Idea\_Brief\_-\_Breaking\_the\_Nuclear\_Financing\_Barrier.pdf, accessed 9-30-12, ara)

High financing costs stand in the way of … request to triple the loan volume.

## SMR’s can be commercialized quickly and are safe-studies prove they have multiple advantages

Kessides and Kuznetsov, World Bank chief economist, 12

(Ioannis N., Development Research Group and The World Bank; and Vladimir, Consultant at The World Bank, "Small Modular Reactors for Enhancing Energy Security in Developing Countries," Sustainability 2012, 4.8, http://www.mdpi.com/2071-1050/4/8/1806/htm, accessed 9-29-12, mtf)

SMRs offer a number of … by significant economies of scale [19].

## NRC will streamline SMR’s

Sullivan, et al., partner, Hogan Lovells’ LLP, 10

(Mary Anne, partner in Hogan Lovells' energy practice in Washington, D.C., Daniel F. Stenger is a partner in Hogan Lovells' energy practice, Amy C. Roma is a senior associate in Hogan Lovells' energy practice, “Are Small Reactors the Next Big Thing in Nuclear?” 12-21-10, <http://www.elp.com/index/display/article-display/3288852302/articles/electric-light-power/volume-88/issue-6/sections/are-small-reactors-the-next-big-thing-in-nuclear.html>, accessed 9-20-12, ara)

The biggest challenge to getting … initiative through industry working groups.

## SMR’s compete with gas-better risk premium and no volatility

**Rosner, Distinguished Service Professor, Departments of Astronomy and Astrophysics, and Physics – Chicago University, 11**

(Robert e-, Senior Fellow, Computation Institute; Director, Energy Policy Institute; Enrico Fermi Institute; Harris School of Public Policy, Stephen Goldberg, Special Assistant to the Director Argonne National Laboratory, “Small Modular Reactors – Key To Future Nuclear Power Generation In The U.S.”, Energy Policy Institute at Chicago The Harris School of Public Policy Studies, 6/2/12, atl)

In both the 2004 Chicago Study and the current …for nuclear power plants.

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# 2AC

# Solvency

## SMRs solve capital problems – we already have investor interest

Biello, Scientific American, 12

(David, “Small Reactors Make a Bid to Revive Nuclear Power,” 3-27-12, <http://www.scientificamerican.com/article.cfm?id=small-reactors-bid-to-revive-nuclear-power&page=2>, accessed 9-18-12, ara)

A modern pressurized water reactor, like the … CEO Aris Candris.

## SMRs are cost effective, safe, and come online quickly

**Szondy, Gizmag Contributor, 12**

(David, freelance writer and has contributed to Charged and iQ magazine and is the author of the website Tales of Future Past, “Feature: Small modular nuclear reactors - the future of energy?”, http://www.gizmag.com/small-modular-nuclear-reactors/20860/, 10/11/12, atl)

One way of getting around many of these …, it needn't interfere with the operation of the others.

## Loan guarantees attract private capital – increases are key

Peskoe, Associate, McDermott Will & Emery LLP, 12

(Ari, focuses on regulation, legislation, and transactional issues related to energy policy, “A Solution Looking For a Problem: Building More Nuclear Reactors after Vogtle,” April 2012, *Electricity Journal*, Volume 25, Issue 3, ScienceDirect, accessed 10-2-12, ara)

Given the checkered history of reactor … associate with a nuclear disaster.64

## Loan guarantees are low risk – modeled on successful techniques and ensures revenue

**Bowman, NEI president, 06**

(Frank L., Nuclear Energy Institute CEO. “U.S. House of Representatives Committee on Appropriations Subcommittee on Energy and Water Development.” 9-13. <http://www.nei.org/publicpolicy/congressionaltestimony/bowmantestimony91306extended>. Accessed: 10/02/2012. ADC)

It is important to note that the loan guarantee …form of investment banking fees.

# Prolif

## IEAE fails—lack of resources, institutional support, or enforcement mechanisms

**Council on Foreign Relations, 12**

(July 5, 2012, “The Global Nuclear Nonproliferation Regime”, http://www.cfr.org/proliferation/global-nuclear-nonproliferation-regime/p18984, 10/19/12, atl)

NNWS are subject to safeguards to ensure that … to make the additional protocols mandatory.

# Warming

**Warming is real and anthropogenic – it’s reversible if we start mitigation now**

**Nuccitelli, environmental scientist, 11**

(Dana Nuccitelli is an environmental scientist at a private environmental consulting firm, Bachelor's Degree in astrophysics from University of California-Berkeley, Master's Degree in physics from University of California-Davis, has been researching climate science, economics, and solutions since 2006, and has contributed to Skeptical Science since 2010, “The Big Picture,” Updated 2011, Originally Posted 9-24-10, http://www.skepticalscience.com/big-picture.html, accessed 10-3-12, mtf)

The Earth is Warming We know the planet is … climate change, and failing to do so would be exceptionally foolish.

# Virginia Cp

## Perm do both

## Perm shields the link-allows blame shifting

**Wells, Missouri law professor, 2007**

(Christina, “Katrina and the Rhetoric of Federalism”, Mississippi law review, lexis, ldg)

Cooperative federalism (along with its … a cooperative federalism program.

## States can’t solve international perception – united voice is key

Bradley, Law Professor, University of Virginia, 2

(Curtis A, “World War II Compensation and Foreign Relations Federalism,” 2002, http://scholarship.law.duke.edu/cgi/viewcontent.cgi?article=2098&context=faculty\_scholarship&sei-redir=1&referer=http%3A%2F%2Fscholar.google.com%2Fscholar%3Fas\_ylo%3D2000%26as\_yhi%3D2015%26q%3Dfederalism%2BAND%2Bwar%26hl%3Den%26as\_sdt%3D0%252C30#search=%22federalism%20war%22, accessed 9-5-12, ara)

Many foreign affairs scholars believe that …, rather than some sort of dormant federal preemption.

## Fed needs skin in the game to get investors on board.

**Adams, Atomic Insights writer, 10**

(Rod. “Concrete Action to Follow Strongly Supportive Words On Building New Nuclear Power Plants.” 1-29. <http://atomicinsights.com/2010/01/concrete-action-to-follow-strongly-supportive-words-on-building-new-nuclear-power-plants.html>. Accessed: 10/02/2012. ADC)

Loan guarantees are important to the … bureaucratic decision making.

## Every dollar counts.

**Sullivan, National Defense University Economics Professor, 10**

(Paul, January 13, 2010, “Loan guarantees are not enough”, http://energy.nationaljournal.com/2010/01/should-taxpayers-back-new-nucl.php, 9/18/12, atl)

I am not against the use of oil, gas, coal or … developments in another country rather easily.

## Causes court strike-down – broad federal presumption exists for nuclear issues

Eggen, Widener University School of Law professor, 6

(Jean Macchiaroli, Professor of Law at Widener University School of Law, “ARTICLE: The Normalization of Product Preemption Doctrine,” Alabama Law Review, Spring 2006, 57 Ala. L. Rev. 725, lexis, accessed 10-5-12, mtf)

A. The Doctrinal Context The preemption doctrine … recourse for those injured by illegal conduct.

## Threat alone creates a chilling effect that deters innovation

Liu, Columbia Law School JD, 9

(Chang Derek Liu, JD – Columbia Law School, “NOTE: The Blank Page Before You: Should The Preemption Doctrine Apply To Unwritten Practices?,” Columbia Law Review, March 2009, 109 Colum. L. Rev. 350, lexis, accessed 10-5-12, mtf)

1. Stifling State Innovation. - From a … into discretionary decisions proves troublesome.

# Immigration

## Heg doesn’t deter conflict – empirics prove

Fettweis, 11

(Christopher, professor of political science and international relations at Tulane University, "Free Riding or Restraint? Examining the Grand Strategy of Europe and Japan", Paper presented at the annual meeting of the International Studies Association Annual Conference "Global Governance: Political Authority in Transition", <http://citation.allacademic.com/meta/p_mla_apa_research_citation/5/0/1/3/8/p501387_index.html>, accessed 1-5-12, AT)

The limited empirical evidence we have … otherwise base their view on faith alone.

Won’t pass – empirics prove, no GOP incentive, and not enough support

Zornick, The Nation Staff Writer, 1-29-13

(George, “[The Numbers Just Don’t Add Up on Immigration Reform](http://www.thenation.com/blog/172504/numbers-just-dont-add-immigration-reform),” [http://www.thenation.com/blog/172504/numbers-just-dont-add-immigration-reform#](http://www.thenation.com/blog/172504/numbers-just-dont-add-immigration-reform), d/a 1-31-13, ads)

Inside Washington on Monday, the realest talk on … they are responding rationally.

## Obama won’t use PC—but if he does, it’s the kiss of death for immigration—solidifies opposition and kills GOP willingness to cooperate

**Koppelman, New Yorker, 1/29**

(Alex, January 29, 2013, “Will Obama Save Immigration Reform or Kill it?”, http://www.newyorker.com/online/blogs/newsdesk/2013/01/will-obama-save-immigration-reform-or-kill-it.html, 1/31/13, atl)

There is a growing sense that comprehensive …, this may be the only way to do it.

## Obama not key – Rubio push

Siddiqui, Huffington Post, 1-30

(Sabrina, “Marco Rubio Immigration Push Tiptoes Fine Line On Pathway To Citizenship,” 1-30-13, http://www.huffingtonpost.com/2013/01/30/marco-rubio-immigration\_n\_2585766.html, accessed 2-1-13,

"This is not a special pathway," he added. "All we're … of his core conservative base.

## Nuclear power is massively popular- politicians get on board

Whitman, CASEnergy Co-Chair, 12

(Christine Todd, Former EPA Administrator and New Jersey Governor, "Nuclear Power Garners Bipartisan Support," 8-13-12, http://energy.nationaljournal.com/2012/08/finding-the-sweet-spot-biparti.php#2237728, accessed 9-30-12, mtf)

The energy policy that I’ve seen garner … sides of the aisle can support.

**Winners win- plan is key to Obama political power**

**Creamer, political organizer and strategist for four decades, 1-2**

(Robert, he and his firm, Democracy Partners, work with many of the country’s most significant issue campaigns, one of the major architects and organizers of the successful campaign to defeat the privatization of Social Security, he has been a consultant to the campaigns to end the war in Iraq, pass universal health care, pass Wall Street reform, change America’s budget priorities and enact comprehensive immigration reform, he has also worked on hundreds of electoral campaigns at the local, state and national level, "Why GOP Collapse on the Payroll Tax Could be a Turning Point Moment," www.huffingtonpost.com/robert-creamer/why-gop-collapse-on-the-p\_b\_1167491.html, accessed 1-2-12, mss)

**Strength and victory are** **…** the time to chase them.

# Oil

## Russia economy collapsing now-multiple factors overwhelm any effect of the plan

Alexandrova, ITAR-TASS, 11-7-12

(Lyudmila, “Russian economy already in crisis”, <http://indrus.in/articles/2012/11/06/russian_economy_already_in_crisis_18885.html>, DOA: 11-7-12, ldg)

The latest developments in the Russian …a powerful impetus to internal demand.”

## Low prices don’t tank Russian growth

Mobius, Templeton Emerging Markets Group executive chairman, 12

(Mark, "The Russian Evolution," 8-29-12, http://mobius.blog.franklintempleton.com/2012/08/29/the-russian-evolution/, accessed 10-11-12, mtf)

Turmoil in Europe (and the prospect of … that’s likely to happen in the near-term.

## High prices force diversification – solves growth

Bogatova, Mergermarket Financial Times Correspondent, 12

(Margarita, June 26, “O’Niel: Russia should be less dependent on oil prices,” <http://english.ruvr.ru/2012_06_26/79409411/>, accessed 9-7-12, ads)

Russia should keep in mind that …political platform, but that’s actually good."

## Oil Prices will inevitably decrease, US demand down now and OPEC cut back disproves the link

Wall Street Journal 1/15

(“Oil settles back below $94; OPEC output dropsMarket weighs demand signals ahead of weekly U.S. inventory data”1- 15-13 <http://articles.marketwatch.com/2013-01-15/markets/36335821_1_platts-survey-oil-demand-inventory-data> accessed 1-21-13)mjl

SAN FRANCISCO (MarketWatch) — Oil … of Monday’s rise for crude.

## Nuclear doesn’t trade off with oil

**Styles, GSW Strategy Group managing director, 12**

(Geoffrey. “How Helpless Are We in the Face of Rising Oil Prices?” 2-24. <http://energyoutlook.blogspot.com/2012/02/how-helpless-are-we-in-face-of-rising.html>. Accessed: 10/02/2012. ADC)

To see why requires a sense of how the oil … near future, they are a rhetorical diversion.

## OPEC will cut production to keep prices high – fear of revenue losses

[Yetiv](http://ww2.odu.edu/&#126;syetiv/), Old Dominion University Political Science Professor, 9-4-12

(Steve, “Is the Energy Boom a Mirage?,” <http://www.nytimes.com/2012/09/05/opinion/is-the-energy-boom-a-mirage.html>, accessed 9-5-12, ads

Fourth, the [Organization of the Petroleum Exporting Countries](http://www.opec.org/opec_web/en/) … domestic control.

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# Politics

## In spite of areas of tension relations with India are high now and will continue to improve throughout Obama's 2nd term

Desai, Truman National Security Project fellow, 12

(Ronak, November 15, 2012, <http://www.huffingtonpost.com/ronak-d-desai/usindia-relations-under-t_b_2115396.html>, accessed 1/19/2013) mph

What's ahead for US-India relations now that President … ties had been oversold have been misguided.

## No bill for months and CIR empirically fails to solve

**Zuckerman, Heritage Foundation Research Associate, 1/30**

(Jessica, January 30, 2013, “Senate Immigration Reform: Another Misguided Call for Comprehensive Legislation”, http://www.heritage.org/research/reports/2013/01/obamas-immigration-reform-another-misguided-call-for-comprehensive-legislation, 1/31/13, atl)

On Monday, a group of Senators know in the … produce the same results.