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

# 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 on … of others are seriously considering nuclear power, but commitments are pending.

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

 (Fast/breakout, checks US influence, miscalc risk (small difference/opaqueness)

**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 weapons…ever 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 contrast, … development, 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 adopt stricter … in time, as it has 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 … security summit will be held in South Korea in 2012.

## 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, while … less-resolved 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 … mistake 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 power … 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, **…**, human 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 … and diplomatic spectrum about 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. We now … **start 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 explanations for … to deal with the magnitude of sea level rise that we are likely 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 future … **for action 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 …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 energy … 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 … 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 … 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 … 2011 budget 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 advantages that can … 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 SMRs to … 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.

## We have the workforce and infrastructure

**Spencer et al, Thomas A. Roe Institute for Economic Policy Studies research fellow, 11**

(Jack. “A Big Future for Small Nuclear Reactors?” Heritage Foundation. 2-02. <http://www.heritage.org/research/reports/2011/02/a-big-future-for-small-nuclear-reactors>. Accessed: 9/7/2012. ADC)

Domestic Production. Although the … capabilities—all in the United States.

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# SPEC

# Solve

## Government support is vital-it overcomes financial barriers to nuclear that the market cannot

**Yanosek, Stanford entrepreneur in residence, 2012**

(Kassia, “Financing Nuclear Power in the US”, energyclub.stanford.edu/index.php/Journal/Financing\_Nuclear\_Power\_by\_Kassia\_Yanosek, DOA: 11-2-12, ldg)

Over the course of the last decade, it appeared that … loan guarantees provided in the 2005 Energy Policy Act.

# Prolif

## Plan solves-reinforces US norms and cradle to grave.

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 9-30-12, mtf)

For years, proponents of nuclear power … distribution of nuclear fuel allayed.

## They’re biased

**Barton, Nuclear Green Energy writer, 11**

(Charles, Quoting Dr. Alexander Cannara, founder of Menlo Green Ribbon Citizens' Committee, electrical engineer, and PhD in Mathematical Methods and Educational Research, and Quoting Kirk Sorenson, President and Chief Technologist at Flibe Energy, ex NASA aerospace engineer, March 27, 2011, “Branding alternative nuclear technology”, http://nucleargreen.blogspot.com/2011/03/branding-alternative-nuclear-technology.html, 9/19/12, atl)

If you think that this discussion so far has been … across the globe, here are comments you say you “encourage”:

## Risk of prolif in Asia is high

**Kassenova,** Carnegie Endowment Nuclear Policy Program Associate, 12

(Togzhan, Stanton Nuclear Security Fellow, expert on nonproliferation issues regarding weapons of mass destruction with a focus on Asian regions, “A Regional Approach to WMD Nonproliferation in the Asia-Pacific”, Carnegie Endowment Policy Outlook, August 2012, 9/3/12, atl)

The threats posed by the proliferation …often contribute to meeting these other objectives.

## And in the Middle East

**Russell, NDU national security professor, 2012**

(Richard, Chapter 6: The Middle East’s Nuclear Future, The Next Arms Race, August, google books, ldg)

The great danger is that the United States is “cutting …—even though the Emirates got a late start.

## US industry key to solve Asian prolif

**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 …-prone methods are not permitted.

# Warm

## China’s demand for imported coal is rising-its cheaper than domestic production

**Min, Morning Whistle Editor, 12**

(Eric, “China’s coal imports significantly increase over year”, Morning Whistle, 12-24-12, <http://www.morningwhistle.com/html/2012/Company_Industry_1224/216249.html>, accessed 12-31-12 wdw)

In the first 11 months of this year, **China’s net …** market demand has improved since August

## Coal will not be competitive-crowded out by natural gas

**Mallett, Hoover Research Editor, 12**

(Rebecca, “COAL IN 2013: DON’T CALL IT A COMEBACK”, Bizmology, 12-12-12, <http://bizmology.hoovers.com/2012/12/12/coal-declines/>, accessed 12-31-12 wdw)

As US natural gas prices increase in … may continue to lose out to abundant, cheap, and cleaner natural gas for electricity use.

# Cap K

## Only evaluate arguments based off the plan text-any alternatives are self serving and regressive which makes 2AC predictability and offense impossible-evaluate the consequences of the AFF and alternative because it is the only wholistic way to evaluate prior questions.

## There is no alternative to capitalism or a clear transition

**Kliman, Pace economics professor, 2004**

(Andrew, “Alternatives to Capitalism: What Happens After the Revolution?” <http://akliman.squarespace.com/writings/>, DOA: 11-3-12, ldg)

Have we faced the harsh reality that, … to] have a good reason for choosing one path into the future rather than another.”

## Perm do the plan and all nme parts of the alt

## Plan won’t be co-opted by capital – elites don’t control policymaking.

**Ralph, Leeds international politics professor, 2000**

(Jason, American democracy promotion: impulses, strategies and impacts, pg 197, ldg)

American policy undoubtedly advocates …a continuous political process.

## U.S. transition from cap sparks great power wars and omnicide

**Nyquist, WorldNetDaily contributing editor, 2005**

(JR, “The Political Consequences of a Financial Crash”, 2-4, [www.financialsense.com/stormw...2005/0204.html](http://www.financialsense.com/stormw...2005/0204.html), DOA: 9-12-11, ldg)

Should the United States experience a severe economic … do this. As one observer recently lamented, “We drank the poison and now we must die.”

# States CP

## Signal of continuous stable support is key

**NEI 2008**

(Nuclear Energy Institute, “Building Confidence in Licensing New U.S. Nuclear Plants,” Jan/Feb, <http://nei.org/resourcesandstats/publicationsandmedia/newslettersandreports/nuclearpolicyoutlook/>, DOA: 11-2-12, ldg)

Addressing Investors’ Concerns Maintaining … the expansion of the U.S. nuclear power sector.

## States can’t provide that – they’re broke

**The Hill 2012**

(“Report: Medicaid costs squeezing state budgets” 6-12, <http://thehill.com/blogs/healthwatch/medicaid/232283-report-medicaid-costs-squeezing-state-budgets%20->, DOA: 11-2-12)

The poor economy and rising … few decades,” said Scott Pattison, the group's executive director.

## 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 … 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 .. discretionary decisions proves troublesome.

## 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 ..in the context of a cooperative federalism program.

# Ptix

## Reform won’t pass – GOP will block, optimists are empirically wrong, and talks won’t begin for a month

CNN Wire, 1-16-13

(“Solve immigration without a quick path to citizenship,” Lexis, d/a 1-18-13, ads)

Now Obama wants to go further. According to … is preserved. See you in 10 years.

## Bottom of the docket

**Munro, The Daily Caller staff writer, 12**

(Neil. “Obama promises new immigration plan but keeps endgame close to his vest.” 12-31. <http://dailycaller.com/2012/12/31/obama-promises-new-immigration-plan-but-keeps-endgame-close-to-his-vest/>. Accessed: 1/3/2013. ADC)

 However, Obama’s language suggested … added, is “rebuilding our infrastructure, which is broken.”

## 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 …on both 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** **enormous …**- that's the time to chase them.

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# Politics

## Reform won’t pass – GOP will block, optimists are empirically wrong, and talks won’t begin for a month

CNN Wire, 1-16-13

(“Solve immigration without a quick path to citizenship,” Lexis, d/a 1-18-13, ads)

Now Obama wants to go further. According to … quo is preserved. See you in 10 years.

## Filibuster rules will block even if there are enough votes

The Hill, 1-18-13

(“Path to immigration reform is paved by filibuster reform,” <http://thehill.com/blogs/congress-blog/politics/278037-path-to-immigration-reform-is-paved-by-filibuster-reform>, d/a 1-18-13, ads)

The good news: President Barack Obama… of the Senate’s dysfunction.

## There’s no bill and it wouldn’t pass anyway

San Francisco Chronicle, 1-18-13

(“Immigration reform's time has come,” <http://www.sfgate.com/opinion/editorials/article/Immigration-reform-s-time-has-come-4206430.php>, d/a 1-18-13, ads)

When someone - anyone - offers an … different parts of it down.

## Won’t pass and not on the docket

[Kaplan](http://www.nationaljournal.com/reporters/bio/46), National Journal Staff Writer, 1-16-13

(Rebecca, “What Gets in the Way of Immigration Reform,” <http://www.nationaljournal.com/congress/what-gets-in-the-way-of-immigration-reform-20130116>, d/a 1-18-13, ads)

The Gang of Eight is drafting principles. The White …, it's just the decision to do it,” she said.

## No PC loss from nuclear energy

**Hinckley, Georgetown University Energy Policy professor, 11**

(Elias, partner with the law firm of Kilpatrick Townsend & Stockton. “Hard Choices Ahead for US Energy Policy.” June 2011. <http://www.ourenergypolicy.org/wp-content/uploads/2012/03/EHinckley-policy-article.pdf>. Accessed: 10/02/2012. ADC)

 What remains unclear is how policymakers will …being developed over the near or midterm.

## Opponents are disorganized- nuclear industry empirically controls the messaging battle

Squassoni, CSIS Senior Fellow, 12

(Sharon, Director and Senior Fellow, Proliferation Prevention Program at Center for Strategic and International Studies, former senior assoc. at Nuclear Nonproliferation Program at Carnegie, former Congressional adviser as senior specialist in weapons of mass destruction at the Congressional Research Service, “Nuclear Power in the Global Energy Portfolio” in the report: The Future of Nuclear Power in the United States, Federation of American Scientists, February 2012, http://www.fas.org/pubs/\_docs/Nuclear\_Energy\_Report-lowres.pdf, accessed 9-30-12, mtf)

Concerns about contamination of the … conducted about a week after Fukushima.18