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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 on … considering nuclear 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 weapons …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 … 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 agreements … summit 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 becoming more … 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, 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 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 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 … 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 … forecasts 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 …**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 … 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 … **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 potential …strategies 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 energy supply s… proliferation 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 … and expansion 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 … 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 … characterized 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 … quality 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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# Solvency

## 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 … of investment banking fees.

## Reforms solve

**Glasgow et al., Pillsbury Winthrop Shaw Pittman LLP, 2012**

(James, “Nuclear Export Controls”, October, online pdf, ldg)

Apart from needed changes to U.S. export law and … for U.S. exporters in the near-term.

## Manufacturing licenses solves export restrictions – creates interagency export standards

**Campagna, Hyperion Chief Nuclear Officer, 2010**

(Mark, “Utilization Of Nrc Manufacturing License For Small Modular Reactors”, Interim Report Of The Ans President’s Special Committee On Smr Generic Licensing Issues, July, online pdf, ldg)

Outside the United States, the ML … U.S. Departments of Commerce, Treasury, and State.

# Prolif

## Commercial leadership is key to safeguard the fuel cycle

**BPC 2012**

(Bipartisan Policy Center, “Maintaining U.S. Leadership in Global Nuclear Energy Markets”, July, <http://bipartisanpolicy.org/sites/default/files/Leadership%20in%20Nuclear%20Energy%20Markets.pdf>, DOA: 11-8-12, ldg)

Strategic Goal: Continued strong U.S. leadership in … commercial and advisory role to play.

## domino theory is true—empirics prove

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)

Further proliferation. Nuclear proliferation … reason to fear the spread of nuclear weapons.

# Energy Production K

## State based support for environmental policy is critical --- only they have the power and legitimacy.

**Eckersley et al., Melbourne political science professor, 2005**

(Robyn, The State and the Global Ecological Crisis, pg x-xiii, ldg)

Against the background of these developments, … of their own case studies and conceptual analyses.

## Perm do the plan and reorient our relationship to consumption—the perm radicalizes reformism

**Doran, University of Illinois at Chicago Professor of Earth and Environmental Sciences, 06**

(Peter, “Refining Green Political Economy: From Ecological Modernisation to Economic Security and Sufficiency, Analyse and Kritik”, <http://www.analyse-und-kritik.net/2006-2/AK_Barry_Doran_2006.pdf>, 10/4/12, atl)

Viewed in isolation EM can be … utopian vision of the ‘sustainable society’.

## Epistemological debate is irrelevant - concrete action is inevitable - they fail to create useful knowledge

**Friedrichs, Oxford politics lecturer, 2009**

(Jorg, “From positivist pretense to pragmatic practice: Varieties of pragmatic methodology in IR scholarship. International Studies Review 11(3): 645–648, ldg)

As Friedrich Nietzsche ([1887] 1994:1; cf. Wilson 2002) knew, the knower … are two sides of the same coin

## We have to combine a political focus with sound scientific advocacy-it is the only way to solve environmental crisis

**Throgmorton, University of Iowa Associate Professor of Urban and Regional Planning, 89**

(James, January 1, 1989, “Synthesizing Politics, Rationality, and Advocacy: Energy Policy Analysis for Minority Groups”, Policy Studies Review, 8 (Winter 1989), pp. 300-321, 9/28/12, atl)

Primers suggest that good analysts should … of the case about to be described.

# DOD CP

## Using DOE is key international perception and cooperation

**APS 2001**

(American Physical Society, “Revitalizing Science In the Department of Energy”, <http://www.aps.org/policy/tools/coalitions/esc/upload/Grassroots_2001_ESC_WhitePaperRevitalizingScienceDOE.pdf>, DOA: 11-2-12, ldg)

Most DOE scientific user facilities – large and …with the investment commitments of NIH and NSF.

**DOD alternative energy investment draws Congressional opposition-empirics**

**Wilder, Clean Edge contributing editor, 12**

(Clint, Clean Edge, a research and strategy firm in the San Francisco Bay Area and Portland, Oregon, "On Clean Energy, the Military's Biggest Fight is with Congress," 8-30-12, http://www.renewableenergyworld.com/rea/news/article/2012/08/on-clean-energy-the-militarys-biggest-fight-is-with-congress, accessed 11-3-12, mtf)

The Pentagon has ambitious goals to …. But every time, we made a better Navy.”

# India Leadership DA

## India is pursuing thorium-that takes forever to export

Tham, Economy Watch, 2012

(Raymond, “Is India About to Alter the World's Energy Future?”, 8-23, <http://oilprice.com/Alternative-Energy/Nuclear-Power/Is-India-About-to-Alter-the-Worlds-Energy-Future.html>, DOA: 11-7-12, ldg)

After decades of relative obscurity however, Thorium …countries in the Middle East and East Asia.

## India won’t be able to compete in nuclear markets

Tham, Economy Watch, 2012

(Raymond, “Is India About to Alter the World's Energy Future?”, 8-23, <http://oilprice.com/Alternative-Energy/Nuclear-Power/Is-India-About-to-Alter-the-Worlds-Energy-Future.html>, DOA: 11-7-12, ldg)

Writing for OpenDemocracy.net, Jayita Sarkar, a … sources such as solar.

## Nuclear exports not key-budget reform is

Subramanian, Peterson Institute for International Economics senior fellow, 10-29-12

(Arvind, “Toward an Economic Overhaul: Assessing India's "Big Bang" Reforms”, <http://www.nbr.org/research/activity.aspx?id=289>, DOA: 11-7-12, ldg)

In addition to attracting increased foreign investment, the …confidence in the Indian economy.

# Immigration Ptix

## All their scenarios are empirically denied

**Naim, Foreign Policy editor in chief, 2010**

(Moisés, “It Didn’t Happen”, January/February, <http://www.foreignpolicy.com/articles/2010/01/04/it_didnt_happen?print=yes&hidecomments=yes&page=full>, DOA: 3-6-13, ldg)

Just a few months ago, the consensus among … predictable." No, it turns out: They aren't.

## Sequester will tank the agenda-Obama’s focus is irrelevant

**James, NPR, 2-26-13**

(Frank, “Obama's Sequester Gamble: What If Nobody Notices?”, <http://www.wbur.org/npr/172967508/obama-s-sequester-gamble-what-if-nobody-notices>, DOA: 3-5-13, ldg)

 But what if the sequester, which … not nearly as bad as his warnings.

## Won’t pass-momentum is an illusion

**Voxxi 3-6-13**

(“President Obama and Congress are still far apart on immigration reform”, <http://www.voxxi.com/obama-congress-apart-immigration-reform/>, DOA: 3-7-13, ldg)

President Barack Obama and …renewable “lawful prospective immigrant” visas.

## 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 … both sides of the aisle can support.

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# K

## Reps don’t come first and don’t cause violence

**Rodwell, Manchester Metropolitan University PhD candidate, 2005**

(Jonathan, “Trendy But Empty: A Response to Richard Jackson”, <http://www.49thparallel.bham.ac.uk/back/issue15/rodwell1.htm>, DOA: 11-8-12, ldg)

In this response I wish to argue that the Post-Structural … a set of universals and a heuristic model.

## Warming is scientifically proven and not a constructed threat- environmental studies are transformative and avoid negative securitization

Trombetta, Delft University of Technology Economics of Infrastructures Department, 6

(Maria Julia, Delft University of Technology, postdoctoral researcher at the department of Economics of Infrastructures, "The Securitization of the Environment and the Transformation of Security," Standing Group on International Relations Conference, Turin, 2006, http://turin.sgir.eu/uploads/Trombetta-the\_securitization\_of\_the\_environment\_and\_the\_transformation\_of\_security.pdf, accessed 11-18-12, mtf)

2. The fixity of Security practices

These dilemmas, however, are based on the idea … **aspects of evoking security are not so evident**.

## Our framing overcomes disbelief and mobilizes public responses

**Romm, Fellow at American Progress, 12**

(Joe Ph.D. in physics from MIT., 2/26/2012, “Apocalypse Not: The Oscars, The Media And The Myth of ‘Constant Repetition of Doomsday Messages’ on Climate”, http://thinkprogress.org/romm/2012/02/26/432546/apocalypse-not-oscars-media-myth-of-repetition-of-doomsday-messages-on-climate/#more-432546, 10/10/12, atl)

The two greatest myths about global … media, intelligentsia and popular culture.

## Simulation and institutional deliberation are valuable and motivate effective responses to climate risks

**Marx et al., Columbia Center for Research on Environmental Decisions, 2007**

(Sabine, “Communication and mental processes: Experiential and analytic processing of uncertain climate information”, <http://climate.columbia.edu/sitefiles/file/Marx_GEC_2007.pdf>, DOA: 11-8-12, ldg)

Based on the observation that experiential a… of individual and group decision-making.