# \*\*\*\*1AC\*\*\*\*

## 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.

# \*\*\*\*2AC\*\*\*\*

# Prolif

## 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 poses … reason to fear the spread of nuclear weapons.

## 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 … widespread distribution of nuclear fuel allayed.

## 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…of Commerce, Treasury, and State.

# Warming

## No ice age coming – anthropogenic warming is a bigger threat

Feulner and Rahmstorf, Potsdam Institute for Climate Impact Research, 10

(Georg and Stefan, Potsdam Institute for Climate Impact Research in Germany, "On the effect of a new grand minimum of solar activity on the future climate on Earth," GEOPHYSICAL RESEARCH LETTERS, VOL. 37, March 10, 2010, http://www.pik-potsdam.de/~stefan/Publications/Journals/feulner\_rahmstorf\_2010.pdf, accessed 9-15-12, mtf)

3. Results and Conclusions

[14] Results for the evolution of …only several decades or a century at most.

# K

## 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 painted …vision of the ‘sustainable society’.

## Consumption focus fails—political action key

**Bryant, Collin College Philosophy Professor, 12**

(Levi, Black Ecology: A Pessimistic Moment, larvalsubjects.wordpress.com/2012/03/19/black-ecology-a-pessimistic-moment/, 10/4/12, atl)

So why is this an issue? It’s an issue…continue to fiddle as the world burns.

## Specificity outweighs generic epistemology indicts-generic critique doesn’t discount acquired knowledge.

**Kratochwil, European University Institute IR professor, 2009**

(Friedrich, The Puzzle of Politics, pg 200-3, ldg)

In what follows, I claim that the shift in … and improved” versions of familiar products.

## Method focus causes incapacitates scholarly analysis

Jackson, American University School of International Service IR associate professor, 11

(Patrick Thadeus, “The Conduct of Inquiry in International Relations”, p. 57-59, 10/10/12, atl)

Perhaps the greatest irony of this … and Kuhn and Lakatos would all reject.

# CP

## 1. Free market fails for energy – federal support is key

**Wilson, Southern Alliance for Clean Energy director of research, 11**

(John. “Energy Subsidies in a Free Market.” 12-17. <http://theenergycollective.com/johnwilson/69594/energy-subsidies-free-market>. Accessed: 10/02/2012. ADC)

Bob Inglis’ call to “simultaneously eliminat[e] … guarantees are needed, but they won’t be necessary.”

## 2. Perm do both

## 3. Gov key to SMR’s-only way to ensure commercialization

Rosner and Goldberg, Energy Policy Institute at Chicago, 11

(Robert and Stephen, The Harris School of Public Policy Studies at the University of Chicago; Contributor: Joseph S. Hezir, Principal, EOP Foundation, Inc. "Small Modular Reactors – Key to Future Nuclear Power Generation in the U.S.," Technical Paper, Revision 1, November 2011, https://epic.sites.uchicago.edu/sites/epic.uchicago.edu/files/uploads/EPICSMRWhitePaperFinalcopy.pdf, accessed 9-29-12, mtf)

Successful commercialization of … even if so, on what schedule.

## 4. Picking winners good --- enhances growth.

**Blattman, Columbia political science professor, 2012**

(Crhis, “The Case for industrial policy (a paper and a rant)”, 5-7, chrisblattman.com/2012/05/07/the-case-for-industrial-policy-a-paper-and-a-rant/?utm\_source=feedburner&utm\_medium=feed&utm\_campaign=Feed%3A+chrisblattman+%28Chris+Blattman%29, DOA: 11-5-12, ldg)

A new paper, where some very good … opportunity for experimentation and learning.

## 5. Loan guarantees don’t link to their arguments – conservative arguments about market intervention ignore data

**Griffith et al., Center for American Progress economic policy analyst, 2012**

(John, “Major Analysis: Federal Loans And Loan Guarantees Have A Huge Benefit But A Low And Predicatable Cost”, 5-3, <http://thinkprogress.org/climate/2012/05/03/475978/major-analysis-federal-loans-and-loan-guarantees-have-a-huge-benefit-but-a-low-and-predicatable-cost/>, DOA: 11-3-12, ldg)

These programs typically run at very low …s made at the height of the housing crisis.

# Ptix

## India relations high and resilient- immigration doesn’t trigger the impact

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 … ties had been oversold have been misguided.

## 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 … they are responding rationally.

## Rubio is key – not Obama

Avlon, The Daily Beast, 1-31-13

(John, “Immigration Reform Proposal Shows Similar Ideas Betweeen Bush and Obama,” <http://www.thedailybeast.com/articles/2013/01/31/immigration-reform-proposal-shows-similar-ideas-betweeen-bush-and-obama.html>, d/a 2-1-13, ads)

Fast-forward six years, and the right-wing … and then turn over and die.”

## 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 … 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.

# NNSA

## NNSA can’t do anything right

**Roth, Center for Arms Control Policy Fellow, 10/4**

(Nickolas, October 4, 2012, “NNSA and its Terrible, Horrible, No Good, Very Bad Week”, http://www.nukesofhazardblog.com/story/2012/10/4/18624/6553, 10/18/12, atl)

It has been a long week for the …. done, the situation is unlikely to improve.

## The plan solves -- building new nuclear plants attracts labor.

**Howard, Nuclear Energy Institute Vice President, 07**

(Angie, February 5, 2007, “Achieving Excellence in Human Performance: Nuclear Energy Training and Education”, http://www.nei.org/newsandevents/speechesandtestimony/2007/americannuclearsocietyextended, 10/18/12, atl)

Yes, we do have a looming workforce … when young people look for in a career today.

## No scenario for superbugs- virulence trades off with transmissibility

**Orent**, anthropologist specializing in evolutionary epidemiology, 200**5**

[Wendy, interview with Richard Halicks, “ Bird bug has flown the coop," 10-23-5, Atlanta Journal-Constitution, l/n, accessed 12-23-10, mss]

Transmissibility is the ability of the virus to get … **to transmit the disease, it dies with you**.

# \*\*\*\*1AR\*\*\*\*

# Warming

## There’s no ice age coming – limited solar effect and northern ice sheet indicators

Cook, University of Queensland Global Change Institute Climate Communication Fellow, 10

(John, Climate Communication Fellow for the Global Change Institute at the University of Queensland, post-graduate degree in solar physics, the science presented on Skeptical Science is not his own but taken directly from the peer reviewed scientific literature, "Are we heading into a new Ice Age?," 7-9-10, http://www.skepticalscience.com/heading-into-new-little-ice-age-intermediate.htm, accessed 9-15-12, mtf)

Just a few centuries ago, the planet experienced a … for an imminent ice age.

# NNSA DA

## Best studies show that even a small scale nuclear war would lead to nuclear winter, cause massive climate change, and result in extinction

Robock, professor of climatology at Rutgers University, 2009

(Alan, Department of Environmental Sciences at Rutgers and associate director of its Center for Environmental Prediction, "Nuclear winter," The Encyclopedia of Earth, 1-6-09, http://www.eoearth.org/article/Nuclear\_winter, accessed 9-9-11, mtf)

Introduction Nuclear winter is a term that … of a nuclear environmental catastrophe.

## Turn- war causes epidemic disease outbreak

**Fidler**, Indiana University School of Law associate law professor, 19**97**

[David P., Minnesota Law Review, "Return of the Fourth Horseman: Emerging Infectious Diseases and International Law," April, 81 Minn. L. Rev. 77 1, l/n, accessed 12-23-10, mss]

Historically, war has been … control into a global public health emergency. n143

## Their authors have a financial and institutional bias for alarmism

**Canberra Times**, 2-6-20**10**

["Swine Flu Who Should We Trust?" l/n, accessed 12-21-10, mss]

It's also timely in the light of a series of … diseases, to drum up business.

## NNSA is consistently bad.

**Oak Ridge Environmental Alliance, 12**

(Sep 11, 2012, “OREPA calls for Abolition of NNSA, cites numerous government”, http://orepa.org/orepa-calls-for-abolition-of-nnsa-cites-numerous-government-studies/, 10/18/12, atl)

The National Nuclear Security Administration…. compiling lessons learned, we’ll do better.”