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

## 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 nuclear … 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 … 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, have … 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 … 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 … 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… 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 … 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, **…**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 … 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 … **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 … 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 … **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 …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 … 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 …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 … the 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 … 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 … 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 SMRs … 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 nuclear i… capabilities—all in the United States.

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# T

## 2. Counter-interp – For has to do with the final intent and goal

**Collins English Dictionary**, 2009

[Complete & Unabridged 10th Edition, "for," http://dictionary.reference.com/browse/for, accessed 8-1-10, mss]

for (fɔː, ( unstressed ) fə)

— prep

1. intended to reach; directed or belonging to: there's a phone call for you

2. to the advantage of: I only did it for you

3. in the direction of: heading for the border

4. over a span of (time or distance): working for six days ; the river ran for six miles

5. in favour of; in support of: those for the proposal ; vote for me

6. in order to get or achieve: I do it for money ; he does it for pleasure ; what did you do that for?

7. appropriate to; designed to meet the needs of; meant to be used in: these kennels are for puppies

8. in exchange for; at a cost of; to the amount of: I got it for hardly any money

9. such as explains or results in: his reason for changing his job was not given

10. in place of: a substitute for the injured player

11. because of; through: she wept for pure relief

12. with regard or consideration to the usual characteristics of: he's short for a man ; it's cool for this time of year

13. concerning; as regards: desire for money

14. as being: we took him for the owner ; I know that for a fact

15. at a specified time: a date for the next evening

16. to do or partake of: an appointment for supper

17. in the duty or task of: that's for him to say

18. to allow of: too big a job for us to handle

19. despite; notwithstanding: she's a good wife, for all her nagging

20. in order to preserve, retain, etc: to fight for survival

21. as a direct equivalent to: word for word ; weight for weight

22. in order to become or enter: to go for a soldier ; to train for the priesthood

23. in recompense for: I paid for it last week ; he took the punishment for his crime

24. informal ( Brit ) for it liable for punishment or blame: you'll be for it if she catches you

25. nothing for it no choice; no other course

 — conj

26. ( coordinating ) for the following reason; because; seeing that: I couldn't stay, for the area was violent

 [Old English; related to Old Norse fyr for, Old High German fora before, Latin per through, prō before, Greek pro before, in front]

## Financial incentives with the explicit intent of increasing energy production are topical

Webb, University of Ottawa Law Lecturer, 93

(Kernaghan, Consumer Affairs Bureau of Canada, "Thumbs, Fingers, and Pushing on String: Legal Accountability in the Use of Federal Financial Incentives," Alberta Law Review, Vol. 31, Issue 3 (31 Alta. L. Rev. 501, 1993), p. 505-506, Hein Online, accessed 8-1-12, mtf)

In this paper, "financial incentives" are taken … programs are assistance, but they are not incentives.

# Warming

## 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 …, here are comments you say you “encourage”:

## It’s not too late

**Nuccitelli, UC Davis physics MA, 8-31-12**

(Dana, “Realistically What Might the Future Climate Look Like?”, <http://www.skepticalscience.com/realistically-what-might-future-climate-look-like.html>, DOA: 11-3-12, ldg)

We're not yet committed to … emissions as soon and as much as possible.

# Prolif

## Russia and China currently constructing nuclear reactors

PennEnergy, 12-7

(PennEnergy Editorial Staff, "China and Russia work together to expand nuclear power plant," 12-7-12, http://www.pennenergy.com/articles/pennenergy/2012/12/china-and-russia-work-together-to-expand-nuclear-power-plant.html, accessed 12-26-12, mtf)

The Chinese and Russian governments …new units to begin operating in 2018.

## Hitachi continuing talks with Lithuania and Japan ban expected to end

Westlake, Japan Daily Press writer, 12-26

(Adam, "Hitachi maintains talks with Lithuania over nuclear power plant," 12-26-12, http://japandailypress.com/hitachi-maintains-talks-with-lithuania-over-nuclear-power-plant-2620414, accessed 12-26-12, mtf)

Japan’s Hitachi Ltd. says it has … restarts in the near future.

## 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 … with the operation of the others.

# CP

## Perm do both

## Military use of nuclear fails- too expensive, has to be backed up, less convenient

**Lovins, RMI founder, 12**

(Armory B., Rocky Mountain Institute, “Lovins addresses New Nuclear Power for DOD (Q&A 3 of 3),” 5-10-12, da 9-15-12, <http://dodenergy.blogspot.com/2010/05/lovins-addresses-new-nuclear-power-for_12.html>, mee)

Question 3: Are there any points in particular you'd … technologies already rejected by the marketplace.

## 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 …guarantees provided in the 2005 Energy Policy Act.

# Politics

## US can’t project power now- it’s leaking cash

**Parent et al., Miamia political science professor, 2011**

(Joseph, “The Wisdom of Retrenchment”, Foreign Affairs, Nov/Dec, ebsco, ldg)

The trend of the last decade…the United States is leaking cash.

## Alt cause- mercantilism and intellectual theft of foreign competitors tanks competitiveness

Atkinson, Information Technology and Innovation Foundation president, 7

(Robert D., "Deep Competitiveness," Winter 2007, http://www.itif.org/files/Deep-Competitiveness.pdf, accessed 1-3-13, mtf)

Work to create a global trade regime … on markets and less on mercantilism.

## No chance for legislation—congress won’t cooperate and the political climate is poisonous

**Kurtz, The Daily Beast and Newsweek’s Washington bureau chief, 1/3**

(Howard, January 3, 2013, “Why the 112th Congress Was The Worst, and the Next One Won’t Be Much Better”, http://www.thedailybeast.com/articles/2013/01/03/why-the-112th-congress-was-the-worst-and-the-next-one-won-t-be-much-better.html, 1/3/13, atl)

Has there ever been a worse … by right-wing groups in the next primary.

## Obama doesn’t have PC and immigration would take forever

**Voorhees, Slate Editor, 1/3**

(Josh, January 3, 2013, “White House (Quietly) Promises Immigration Push”, http://www.slate.com/blogs/the\_slatest/2013/01/03/obama\_s\_immigration\_plans\_white\_house\_officials\_suggest\_early\_2013\_won\_t.html, 1/3/13, atl)

With one fiscal-cliff fight in …concrete actions are taken.

## Obama PC empirically fails- Biden will lead negotiations

USA Today, 1-3

(“4 lessons for Round 2 of 'fiscal cliff' fight,” 1-3-13, da 1-3-13, <http://www.firstcoastnews.com/topstories/article/290183/566/4-lessons-for-Round-2-of-fiscal-cliff-fight>, mee)

The fiscal cliff debate negotiations … the Democratic presidential nomination in 2016.

## Fiscal fights crowd out immigration

**McGregor, Fiscal Times staff writer, 1-3**

(Richard. “Cliff deal threatens second term agenda.” 1-3. <http://www.ft.com/intl/cms/s/0/8f8ef804-5501-11e2-a628-00144feab49a.html#axzz2GzXpfIdM>. Accessed: 1/4/2013. ADC)

The confrontation over the fiscal …to middle-class incomes, economists said.

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

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

# Politics

## Biden key to immigration- looking to gain Hispanic support for 2016 election

[Killough](http://politicalticker.blogs.cnn.com/tag/cnns-ashley-killough/), CNN reporter, 1-3

(Ashley, “[Biden: Republicans had 'epiphany' on immigration](http://politicalticker.blogs.cnn.com/2013/01/03/biden-republicans-had-epiphany-on-immigration/),” 1-3-13, CNN, da 1-3-13, <http://politicalticker.blogs.cnn.com/2013/01/03/biden-republicans-had-epiphany-on-immigration/>, mee)

Vice President Joe Biden said Republicans … not win. You will not win."