# \*\*\*\*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 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

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

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

(Kassia, Stanford University’s Steyer-Taylor Center for Energy Policy and Finance, private equity investor in the energy sector as a principal at Quadrant Management and Founder of Tana Energy Capital LLC, "Financing Nuclear Power In The US," Stanford Energy Journal, Spring 2012, <http://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.

## Current loan guarantees aren’t enough – increases are key to catalyze construction and solve leadership

Belogolova, energy reporter, National Journal, 12

(Olga, “U.S. Nuclear Industry Seen Needing a Boost,” 7-19-12, National Journal Daily, *Academic OneFile*, accessed 10-2-12, ara)

A robust nuclear-energy industry should …might not be willing to wait any longer.

## 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 … form of investment banking fees.

# Warm

## 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.

# 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.

# Heidegger K

## Concrete ethical action and values are necessary and good—this precedes ontology and theory, is a necessary condition of subjectivity, and is key to destroy the ideology of genocide.

Arnett, Duquesne University Communication Professor, 2003

(Ronald C., "The Responsive 'I': Levinas's Derivative Argument," Argumentation and Advocacy 40.1, pg. 39-43, cab)

Emmanuel Levinas, considered the premier voice of … philosophy, but first philosophy" (Levinas, Totality and Infinity 304).

## That solves best – incorporation affirms unavoidable use, but denies domination

**Dreyfus, University of California, Berkeley Professor of Philosophy, 06**

(Hubert, "Nihilism, Art, Technology, and Politics", the Cambridge Companion to Heidegger, http://socrates.berkeley.edu/~hdreyfus/pdf/HdgerOnArtTechPoli.pdf, 10/4/12, atl)

Heidegger, however, sees that "it would be … receptivity to understandings of being.

## Abandoning nature causes extinction

**Soule et al., Berkeley Natural Resources professor, 1995**

(Michael, Reinventing Nature?, pg 159-160, ldg)

The decision has already been made in most … **alternative** to massive attrition of living nature.

## Technological thought is inevitable

**Kateb, Princeton politics professor, 97**

(George, “Technology and the Rest of Culture”, Ohio State Univ Pr (Txt) (June 2001), 10/4/12, atl)

But the question arises as to where a genuine … human aspiration, or, at the least, are not to be cut loose from the highest human aspiration.

## We need to have a technological approach in order to prevent extinction

**Heaberlin, Pacific Northwest National Laboratory Head of the Nuclear Safety and Technology Applications Product Line, 03**

(Scott, A Case for Nuclear-Generated Electricity, Battelle Press (September 2003) p. 31-40, 10/4/12, atl)

Well, then let's not do that, huh? Well, no, not … wisely and win free to make a better life for everyone.

# Anthro

## Perm do both – the permutation’s pragmatic struggle for animal rights is the only feasible option – the alt devolves into paradigm wars

**Favre, MSU law professor, 2004**

(David, “Integrating Animal Interests Into Our Legal System”, 10 Animal L. 87, lexis, ldg)

This division stems from divergent … system if they remain legal property. 12

## Human extinction outweighs- moral evolution inevitably solves speciesism- BUT extinction now means natural events destroy all life on earth

**Matheny, John Hopkins Public Health PhD candidate, 2007**

(J.G., “Ought we worry about human extinction?”, 12-6, <http://jgmatheny.org/extinctionethics.htm>, DOA; 10-14-11, ldg)

Moral philosophers have not written … best long-term hope for survival.

## Their ethics collapses down to the lowest common denominator – causes genocide

**Polacheck et al., Nutter, McClennan and Fish associate, 1995**

(Lori, “The Case against rights for animals”, <http://lawdigitalcommons.bc.edu/cgi/viewcontent.cgi?article=1382&context=ealr>, DOA: 12-16-11, ldg)

In the end, however, it is the aggregate of these … the place of the human being and the Colorado beetle. 26

# XO CP

## Perm do both

## Congress will fight against regulatory action that is done to circumvent Congressional passage by Obama

The Hill, 10

[Jason Millman and Andrew Restuccia, Obama works around Congress on climate change, healthcare, http://thehill.com/blogs/e2-wire/677-e2-wire/135417-healthcare-climate-change-at-center-of-pending-obama-gop-regulatory-war]jap

Republicans are preparing an array of … failing to win support from Congress.

## Congress votes on all new spending – links to politics and takes out the net benefit

Kepplinger, GAO General Counsel, 11

(Gary, General Counsel of the Government Accountability Office, DePaul University School of Law, J.D., “They Can’t Spend What You Don’t Approve: Rethinking the Appropriations Clause,” 1-24-11, <http://www.heritage.org/research/reports/2011/01/they-cant-spend-what-you-dont-approve-rethinking-the-appropriations-clause>, accessed 9-19-12, ara)

Separation of powers, though never … actions to limit, most notably, executive action.

## No Net Benefit—executive orders consume political capital

**Eberly, Assistant Political Science Prof. at St. Mary’s College of Maryland, 1-21**-13

(Todd, “The Presidential Power Trap,” Baltimore Sun, accessed 1-24-13, <http://articles.baltimoresun.com/2013-01-21/news/bs-ed-political-capital-20130121_1_political-system-party-support-public-opinion/2>)

Faced with obstacles to successful … **further erode political capital**.

# Ptix

## GOP won’t get on board- politically treacherous

Meckler, Wall Street Journal, 2-25

(Laura, "The GOP's Immigration Dilemma," 2-25-13, http://online.wsj.com/article/SB10001424127887323864304578316162381248872.html, accessed 2-27-13, mtf)

But the party is hardly unified … American jobs, security and culture.

## Sequestration and second-term capital drain ensure no PC left for agenda

James, NPR, 2-26

(Frank, “Obama's Sequester Gamble: What If Nobody Notices?” 2-26-13, http://www.npr.org/blogs/itsallpolitics/2013/02/26/172967508/obama-s-sequester-gamble-what-if-nobody-notices, DOA: 3-1-13, ara)

If the sequester does happen, expect video … turns out to be not nearly as bad as his warnings.

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

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

# Warming

## Our deployment of risk is enabling – we need to visualize climate change to shake up political apathy

**Beck, Munich sociology professor, 10**

(Ulrich, “Climate for Change, or How to Create a Green Modernity?”, Theory Culture Society 2010 27: 254, 10/10/12, atl)

Sixth thesis: The political explosiveness …it is condemned to repeated failure.

# Heidegger

## Questioning ontology does nothing-case is a DA to the alt

**Graham, Queensland Graduate School of Management, 99**

(Phil, “Heidegger’s Hippies: A dissenting voice on the “problem of the subject” in cyberspace, Identities in Action! 1999, <http://www.philgraham.net/HH_conf.pdf>, 10/4/12, atl)

Societies should get worried when Wagner’s … ontology are the least of all worries.

# Anthro

## No root cause-no monocasual explanation.

**Martin, Wollongong University science, tech and society professor, 1990**

(Brian, “Uprooting War”, <http://www.bmartin.cc/pubs/90uw/uw13.html>, DOA: 11-4-11, ldg)

In this chapter and in the six preceding chapters I … movements to uproot them.