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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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# Case

## SMRs also use thorium- market decides, but net better than the squo

## Barely any waste

Tularak, Office of Atoms for Peace, 11

(Thitidej; and Supervisor Dr. Totju Totev Argonne National Laboratory USA, "IAEA Fellowship Work Report," This report is generated as a summary of all the works and studies at Argonne National Laboratory (ANL) as part of IAEA Fellowship Program (THA-10014) from May 31, 2011 – June 30, 2011, http://ansn.oaep.go.th/files/report5\_3.pdf, accessed 9-29-12, mtf)

Reduced spent fuels and waste management obligation: Nuclear waste …or even have no spent fuel pool.

## Waste was solved

Conca, Forbes contributor, 12

(James, "Congress Goes Nuclear," 4-28-12, http://www.forbes.com/sites/jamesconca/2012/04/28/congress-goes-nuclear/#, accessed 9-30-12, mtf)

So much for the notion that Congress can’t do anything right. The … looking at the problem for 30 more years.

# Nuclear Colonialism K

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

## Claims of nuclear colonialism represent Western romanticism about the “ecological Indian”

**Krech, Brown University Anthropology and Environmental Studies Professor, 00**

(Shepard, “The Ecological Indian: Myth and History” W. W. Norton & Company (September 2000), pg. 214, 10/17/12, atl)

Uranium mining simultaneously affected … that they and their accusers have seldom met.

## Ecological Indian views rooted in essentialism which destroys both sovereignty and cultural practice

**Ishiyama, Rutgers University Geography Professor, 01**

Noriko, “Changing Notions Of Environmental Justice In The Decision To Host A Nuclear Fuel Storage Facility On The Skull Valley Goshute Reservation”, Presented at Waste Management 2001 Symposia Session 51: Equity and Environmental Justice, 10/17/12, atl)

Cultural essentialism as it informs assertions by some … dynamic cultural practice in the long-term.

## Perm do the plan then the alt

## No waste dumping

**Anderson, Ph.D. in metallurgical engineering from the University of Idaho, 12**

(Corby, served from 2010 to 2011 as a committee member for the National Academy of Sciences study on uranium mining in Virginia. Anderson has more than 33 years of academic and applied global industrial experience in mining, metallurgical, energy, chemical, environmental, and materials engineering, September 9, 2012, “What the uranium mining study said and did not say,” http://www2.timesdispatch.com/news/commentary/2012/sep/09/tdcomm03-what-the-uranium-mining-study-said-and-di-ar-2187800/, 10/17/12, atl)

Much of the concern about uranium … contaminated water from escaping the site.

## Perm do the plan and only use reactors that don’t use uranium

## They assume a universal indigenous identity and re-entrench native structural poverty

**Hebert, Associated Press, 06**

(Joseph, June 27, 2006, “Store nuclear waste on reservation? Tribe split”, http://www.msnbc.msn.com/id/13458867/ns/us\_news/t/store-nuclear-waste-reservation-tribe-split/#fullstory, 10/14/12, atl)

[SKULL VALLEY, Utah](http://www.bing.com/maps/?v=2&where1=SKULL%20VALLEY,%20Utah%20&sty=h&form=msdate)  — Leon Bear, a stocky …strong supporter of the waste dump.

## Rejection of nuclear power causes coal fill in—hundred times worse than nuclear power

**Monbiot, visiting Environmental Policy professorship at Oxford, 11**

(George, George Monbiot is the author of the bestselling books The Age of Consent: A Manifesto for a New World Order and Captive State: The Corporate Takeover of Britain, as well as the investigative travel books Poisoned Arrows, Amazon Watershed and No Man's Land. His latests books are Heat: how to stop the planet burning and Bring on the Apocalypse?, May 21, 2011, “Why Fukushima made me stop worrying and love nuclear power”, http://www.guardian.co.uk/commentisfree/2011/mar/21/pro-nuclear-japan-fukushima, 10/14/12, atl)

But the energy source to which most economies … has converted me to the cause of nuclear power.

## Uranium mining is safe

**Conaway, MSNBC MaddowBlog writer, 11**

(Laura, Maddow Blog, December 20, 2011, “Uranium mining is good for you”, http://maddowblog.msnbc.com/\_news/2011/12/20/9585087-uranium-mining-is-good-for-you?lite-http://maddowblog.msnbc.com/\_news/2011/12/20/9585087-uranium-mining-is-good-for-you?lite, 10/13/12, atl)

A company called Virginia Uranium has … and the company’s project manager.

## Must participate in state dialogue to break down colonial practices towards Natives

McLaren and Kincheloe, UCLA Graduate School of Education prof, Canada Research Chair at McGill University, 7

(Peter, Ph.D in Curriculum & Educational Theory, and Joe L., McGill University prof, 3 graduate degrees from University of Tennessee, founder of The Paulo and Nita Freire International Project for Critical Pedagogy, “Critical Pedagogy: Where Are We Now?,” 2007, accessed google books 2-24-13, mee)

Andre Lorde’s essay, The Masters Tools …between competing moral visions.

## Native epistemology has to operate within the language of the empire in order to be effective

Pulitano, Fulbright scholar, 3

(Elvira, prof in the Ethnic Studies Department at Cal Poly, Ph.D. in English with specialization in Native American studies, “Toward a Native American Critical Theory,” 2003, mee)

In the specific case of Native …of being explored.

## Engaging policy key to resist Settlerism

Dei, Professor and Chair, Department of Sociology and Equity Studies at the Ontario Institute for Studies in Education, 2

(George J. Sefa, “Rethinking The Role Of Indigenous Knowledges In The Academy,” 2002, NALL, da 2-24-13, <http://www.nall.ca/res/58GeorgeDei.pdf>, mee)

The maintenance of cultural autonomy has…testimonies as evidence in the courts.

## They’re K can’t guarantee success- means it gets co-opted

Dei, Professor and Chair, Department of Sociology and Equity Studies at the Ontario Institute for Studies in Education, 2

(George J. Sefa, “Rethinking The Role Of Indigenous Knowledges In The Academy,” 2002, NALL, da 2-24-13, http://www.nall.ca/res/58GeorgeDei.pdf, mee)

On the whole, I believe Indigenous scholars … and material embodiment (Miller, 1989, 1997; Dei, 1999c).

## Anti-hierarchical environmentalism fails—it destroys the intrinsic value of all beings and relies on self-contradictory notions of value.

Storey, Fordham University Teaching Fellow, 11

(David, "Nature, nihilism, and life in Heidegger and Nietzsche: Naturalistic metaphysical foundations for environmental ethics," Ph.D. Dissertation, ProQuest, pg. 374-376, cab)

But I think there is another kind of value implied … an adequate goal for humanity.”837

## 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 … purpose of the case about to be described.

## 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 …and conceptual analyses.

## The endpoint of biopower is not the creation of bare-life but the fostering and production of forms-of-life. Biopower seeks to optimize the individual and produce “extra-life.”

**Ojakangas 05** (Mika, Impossible Dialogue on Biopower, Foucault Studies, Doctorate in Social Science)

Moreover, life as the object and the subject of … optimizing potentialities of life, by fostering and generating “forms of life”.50

## 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) … knowledge are two sides of the same coin

## The state is inevitable - therefore we have an ethical obligation to constantly improve it

**Simmons, Department of History and Political Science, 99**

[William Paul, Bethany College,. “The Third: Levinas’ Theoretical Move From An-archical Ethics to the Realm of Justice and Politics.” Philosophy and Social Criticism. Vol. 25 no. 6. P. 96-98., 10/29/10, atl]

**Since** **‘it is impossible to escape … contrary of what it wants to secure.**

Queer theory identifies with an ideal asexual being that reproduces exclusion  
Green, assistant professor of sociology at the University of Toronto, 02

(Adam Isaiah, Gay but Not Queer: Toward a Post-Queer Study of Sexuality, Theory and Society, Vol. 31, No. 4 (Aug., 2002), pp. 521-545, 9/1/11, atl)

Yet, despite its laudable ambition and … socialization - i.e., the "social" - in shaping the "sexual.

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# K

## 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 music … and ontology are the least of all worries.

## No policy failure. Policy and theory do succeed on the basis we use.

**Harvey, Dalhousie political science professor, 1997**

(Frank, The Future’s Back: Nuclear Rivalry, Deterrence Theory, and Crisis Stability after the Cold War”, p. 138-139

Linguistic Relativism. One approach of postmodernists is … less about international relations if we pursued that strategy.