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# Contention One: 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. … spectrum 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 … 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. … **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 … 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 … **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 …r 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 … 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 Two: Proliferation

## Nuclear power will expand globally, even in Japan and Germany. BUT they will be large reactors built outside the US.

**Talbot, Dundee Securities senior mining analyst, 8-14-12**

(David, “Who Will Fill the 24 Million Pound Uranium Supply Gap?: David Talbot”, <http://www.businessinsider.com/who-will-fill-the-24-million-pound-uranium-supply-gap-david-talbot-2012-8>, DOA: 11-5-12, ldg)

The Energy Report: In your last interview, "The … in nuclear power.

## 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 … ever 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, have … 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 … 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 … 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… 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 …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 … distances 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 …**, human beings trying to colonize the moon.

# Plan Text

## The United States federal government should substantially increase loan guarantees for small modular thermal reactors.

# Contention Three: 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 … 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 …y 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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# T

## CI: Substantially

**Random House**, 200**9**

[Dictionary.com Unabridged Based on the Random House Dictionary, "Substantially," http://dictionary.reference.com/browse/substantially, mss]

sub⋅stan⋅tial [suhb-stan-shuhl]

–adjective

1. of ample or considerable amount, quantity, size, etc.: a substantial sum of money.

2. of a corporeal or material nature; tangible; real.

3. of solid character or quality; firm, stout, or strong: a substantial physique.

4. basic or essential; fundamental: two stories in substantial agreement.

5. wealthy or influential: one of the substantial men of the town.

6. of real worth, value, or effect: substantial reasons.

7. pertaining to the substance, matter, or material of a thing.

8. of or pertaining to the essence of a thing; essential, material, or important.

9. being a substance; having independent existence.

10. Philosophy. pertaining to or of the nature of substance rather than an accident or attribute.

–noun

11. something substantial.

## Substantially has many meanings- defer to context

**Gettleman**, US District Judge, 7-30-200**7**

[Robert W., UNITED STATES DISTRICT COURT FOR THE NORTHERN DISTRICT OF ILLINOIS, EASTERN DIVISION, 504 F. Supp. 2d 360; 2007 U.S. Dist. LEXIS 56606, l/n, accessed 8-1-10, mss]

Expressions such as "substantially" are used in patent … which interpretation should be adopted.

# Prolif

## Performance and safety improvements resolve the neg args and puts nuclear power in key position to expand

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)

4.1. Improvements in nuclear plant operating … plants and improvements is quite long indeed.15

# REM CP

## Perm do both

## Perm do the CP

## Certainty key to private sector investment

**NMNEP, 11**

(New Millennium Nuclear Energy Partnership. “The Future of Nuclear Energy: A White Paper.” January. <http://content.thirdway.org/publications/370/Third_Way-INL_-_The_Future_of_Nuclear_Energy_A_White_Paper.pdf>. Accessed: 9/29/2012. ADC)

 Broad Government Energy Policy With Washington … as other countries move into the nuclear energy world.

## Australia basing and prepositioning solves signal and capability

Vaughn, Asian Affairs Specialist, 12

(Bruce, “Australia: Background and U.S. Relations,” Congressional Research Service Report for Congress, January 13, 2012, http://www.fas.org/sgp/crs/row/RL33010.pdf, accessed 10-26-12, mtf)

During his visit to Australia, President…keep America fully engaged in Asia.

# Prolif K

## Prolif impacts outweigh the K and flip ethics

**Ford, Hudson Institute Senior Fellow, 11**

(Chris, 1/10/11, Havea and Have-Nots: "Unfairness in nuclear Weapons possession," www.newparadigmsforum.com/NPFtestsite/?p=658, 10/10/12, atl)

First, however, let’s provide some context. As I noted … important considerations in play. Let us not forget this.

## Our impact doesn’t presume senseless irrationality-it is the opposite of that.

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)

 Before reaching a state of MAD, new … could result in a devastating nuclear exchange.

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

## Perm solves the K best:

## Prolif exacerbates inequality—turns the K

**Biswas, Whitman College Politics Professor, 01**

(Shampa, December 2001, “Nuclear apartheid" as political position: race as a postcolonial resource?, Alternatives 26.4, 10/12/12, atl)

At one level, as Partha Chatterjee has pointed … and the state susceptible to undemocratic governance. (60)

**Discourse is worthless—other structures trump**

**Tuathail, geography professor Virginia Polytechnic Institute, 1996**

(Gearoid, “The critical geopolitics constellation: problematizing fusions of geographical knowledge and power”, Political Geography, 15(6-7), p. 664, science direct, ldg)

While theoretical debates at academic … open to the patterned mess that is human history.

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

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

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

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

**Self fulfilling prophecy is backwards – failure to express our fears causes them to occur**

**Macy, eco-philosopher and PhD, 1995**

(Joanna, “WORKING THROUGH ENVIRONMENTAL DESPAIR”, http://www.morning-earth.org/CE6109/EARTHJOURNAL/JOURNALING%20PDFs/PDFs%20copy%201/EARTH%20&%20SURVIVAL/MACY%20WORKING%20THRU%20DESPAIR.pdf, ldg)

There is also the superstition t… guilty of contributing to that very fate.

# REM DA

## New Japanese discoveries destroy China’s monopoly

**HSN 2011**

(Homeland Security News Wire, “Japanese discovery could undermine China's rare earth dominance”, 7-7, <http://www.homelandsecuritynewswire.com/japanese-discovery-could-undermine-chinas-rare-earth-dominance>, DOA: 10-2-12, ldg)

A new discovery by Japanese researchers … license to mine the ocean floor around Papua New Guinea.

## US Ramping up domestic production

NYT, 7-5-12

(“U.S. Rare Earths Comments on Reported Chinese Heavy Rare Earths Stockpile Strategy”, Accessed 9-22-12, http://markets.on.nytimes.com/research/stocks/news/press\_release.asp?docTag=201207050930BIZWIRE\_USPRX\_\_\_\_BW5514&feedID=600&press\_symbol=16888085) NJR

“This news, as we ready our 2012 Drill … of Total Rare Earth (TRE) ranging as high as 26%.

## China won’t restrict supply for geopolitical reasons and it won’t hurt the military if they do

**Levin, New America Foundation fellow, 2010**

(Steve, “Is China's rare earth power play really such a big deal?”, 10-21, <http://oilandglory.foreignpolicy.com/posts/2010/10/21/is_chinas_rare_earth_power_play_really_such_a_big_deal>, DOA: 10-2-12, ldg)

The supply of so-called strategic rare earth …metals, critically needed to make such devices work.

## No SCS conflict-no escalation, leadership transition doesn’t matter and competition leads to compromise-experts on our side

**Wing, Voice of America, 9-4-12**

(Terry, “Will South China Sea Disputes Lead to War?”, <http://www.voanews.com/content/south-china-sea-war-unlikely/1501780.html>, DOA: 10-16-12, ldg)

But that doesn’t mean a war. Storey said an … an effort to find compromise.”

# Focus DA

## Fiscal cliff thumps the DA- it’s top of the agenda—he’ll only do domestic things

**Dadush, Carnegie's International Economics Program senior associate and director, 11/7**

(Uri, “U.S. fiscal cliff risks dragging global economy into darkness” http://edition.cnn.com/2012/11/07/business/opinion-dadush-obama-economy/index.html, 11/8/12, atl)

(CNN) -- President Obama is immensely … $3.5 trillion to $4 trillion over 10 years.

## Obama focus not key – it’s all Israeli politics, AND US support is inevitable

Bennis, fellow, Transnational Institute, 11-16

(Phyllis, fellow at the Institute and the Institute for Policy Studies in Washington DC, “Israel escalates Gaza attack with assassination,” 11-16-12, http://www.tni.org/article/israel-escalates-gaza-attack-assassination, accessed 11-17-12, ara)

But the timing for this escalation … still be pretty pissed off at Netanyahu.

## US isn’t key – Egypt will mediate

Masriya, AllAfrica Global Media, 11-15-12

(Aswat, “Egypt: PM to Discuss Ways to Calm Situation in Gaza - Govt Spokesman,” <http://allafrica.com/stories/201211160601.html>, accessed 11-17-12, ads)

Prime Minister Hisham Kandil will visit Gaza Strip on Friday to discuss ways to calm the situation down, official spokesman of the prime minister Ambassador Alaa al-Hadidi said on Thursday. In a statement on the PM's Facebook page, Hadidi said that President Mohamed Mursi assigned Kandil to visit Gaza to declare Egypt's solidarity with the people of Palestine, [offer](http://allafrica.com/stories/201211160601.html) condolences for those who fell victims to the Israeli assault and discuss ways to end the flare-up of military operations between Palestinians and Israelis in Gaza Strip. Egypt informed Gaza of its intention to send Kandil to the strip on Friday along with a number of ministers, Ghazy Hamad, Hamas spokesman, said. Head of Egyptian Intelligence Mohamed Rafaat Shehata will be part of the delegation to Gaza, a security source told Reuters. The delegation will also include the minister of health in addition to some of the president's aides, presidential spokesman Yasser Ali stated. Hamad told an Egyptian [satellite](http://allafrica.com/stories/201211160601.html) channel that his government welcomes the "historic" visit, adding that Palestinians have long waited for such step.

## Mid-east conflict doesn’t escalate- self-interest contains war. History overwhelmingly proves.

Satloff, Washington Institute for Near East Policy executive director, 6

[Robert, "Forget the Domino Theories," 12-19-06, www.washingtoninstitute.org/templateC06.php?CID=1011, accessed 10-2-10, mss]

The wise men (and woman) don't know their … inside Iraq will be the United States.

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# DA

## US not key - Egypt has already mediated the conflict – solves the impact

Jerusalem Post, 11-14-12

(“Egypt mediates tacit truce on Gaza border,” <http://www.jpost.com/DiplomacyAndPolitics/Article.aspx?id=291678>, accessed 11-17-12, ads)

An uneasy calm fell along the Gaza border … confirmed both sides were ready to stop.

## Solves aggression

[Miller](http://www.timesofisrael.com/writers/elhanan-miller/), The Times of Israel, 11-16-12

(Elhanan, “Egyptian prime minister pays solidarity visit to Gaza, pledges to work at establishing ‘extended calm’,”

<http://www.timesofisrael.com/egyptian-prime-minister-pays-symbolic-visit-to-gaza/>, accessed 11-17-12, ads)

Egyptian Prime Minister Hisham Kandil paid a … it was more than a display of support.