## Inherency

#### The US provides nuclear incentives now, but government policy is uncertain

Biello ‘12

David Biello has been covering energy and the environment for nearly a decade, the last four years as an associate editor at Scientific American. He also hosts 60-Second Earth, a Scientific American podcast covering environmental news, and is working on a documentary with Detroit Public Television on the future of electricity. “Small Reactors Make a Bid to Revive Nuclear Power,” 3/27/12 http://www.scientificamerican.com/article.cfm?id=small-reactors-bid-to-revive-nuclear-power&page=4 AD 9/20/12

But the Department of Energy funding may only support two designs. Innovation spurred by

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the world in safety, if we're not building new nuclear power plants."

### Advantage 1: Hegemony

#### US pursuit of hegemony inevitably—it’s only a question of whether those actions will be successful

Gvosdev 11 – associate prof @Naval War College

[Nikolas K., PhD from Oxford as a Rhodes Scholar, Associate Professor at U.S. Naval War College, former Senior Fellow of Strategic Studies at the Nixon Center, “The Realist Prism: Despite Austerity, U.S. Military Restraint Is Unlikely” World Politics Review, August 19, 2011, http://www.worldpoliticsreview.com/articles/9826/the-realist-prism-despite-austerity-u-s-military-restraint-is-unlikely Acc. 8/22/11 // bjk]

It is amusing to hear U.S. politicians of all ideological stripes sounding

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it can no longer properly discern what is essential and what is extraneous.

#### ---Dependence weakens hegemony in two ways—first, forward basing---Fuel dependence seriously restricts military effectiveness – supply chains divert resources and slow operations

Hourihan and Stepp’11

Matt, MA in Public Policy with a focus on science and technology policy, previous Jan Schori Fellow at the Business Council for Sustainable Energy; Matt, former Fellow at the Breakthrough Institute, a California energy policy think tank, MS in Science, Tech, and Public Policy. ITIF - Information Technology and Innovation Foundation, DC think tank exploring innovation policy. "Lean, Mean and Clean: Energy Innovation and the Department of Defense," March 2011. www.itif.org/files/2011-lean-mean-clean.pdf AD 9/8/12

But the aggregate dollar amount also doesn’t tell the whole story. Deloitte estimates the

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challenge the defense establishment to “unleash us from this fuel tether.”27

#### This decimates future military operations—conventional fuel supplies are insufficient for future theatres

Schlossberg 11

(Andrew Scholssberg, Department of Political Science College of Arts and Sciences University of Pennsylvania, 4/8/11, “The Military Dimensions of Post-Cold War U.S. Oil Policy: Access to Oil and Consequences for Geostrategy” http://repository.upenn.edu/cgi/viewcontent.cgi?article=1173&context=curej)

To OEPP planners, future wars will likely be held in theaters very close in

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use, imposing high costs in blood, treasure, and combat effectiveness.

#### Forward basing is the only answer to the future of remote and irregular warfare

Elwell '11

Andrew, MA in history, Univ of Nottingham, worked with a niche armour systems manufacturer, former project manager for an in-theater MoD vehicle, headed up R&D at the company, Senior Editor ata a news and data provider, Defence IQ, news source for global defence; "Renewable energy tech sought for forward operating bases," 12/1/11, http://www.defenceiq.com/army-and-land-forces/articles/forward-operating-base-technologies-clean-green-an/, AD 9/16/12

“Military operations are a fairly energy-intense undertaking, and energy security is

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the desire, nay necessity, to reduce dependence on fossil fuel intensifies.

#### SMRs key to forward deployment and solving operational vulnerabilities—squo measures won’t solve

\*\*\*solves for oil

Andres and Breetz 11—national security professor @ National War College and Senior fellow/Energy and Environmental Security chair @ CSR

Richard and Andrea, “Small Nuclear Reactors for Military Installations: Capabilities, Costs, and Technological Implications” [http://www.ndu.edu/inss/docuploaded/SF%20262%20Andres.pdf] February

Operational Vulnerability. Operational energy use represents a second serious vulnerability for the U.

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the potential to save hundreds or thousands of U.S. lives.

#### Forward deployment ensures international stability—effectiveness key to carry out future missions and ensure deterrence and contain conflict

Davidson and Flournoy ‘12

Michèle Flournoy, former distinguished research professor at the Institute for National Strategic Studies at

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July-August 12, Academic OneFile, AD 9/16/12

The United States' network of alliances and partnerships ensures that the country rarely has to

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shared practices that make the militaries work together more effectively in the field.

#### Benefits outweigh risks of accident or attack

Andres and Breetz 11

(Richard Andres, Senior Fellow and Energy and Environment Security and Policy Chair at INSS, and Hanna Breetz, Ph.D. candidate in Political Science at the Massachusetts Institute of Technology, February 2011, “Small Nuclear Reactors for Military Installations: Capabilities, Costs, and Technological Implications” <http://www.dtic.mil/cgi-bin/GetTRDoc?Location=U2&doc=GetTRDoc.pdf&AD=ADA545712>)

Despite these potential events, a cost-benefit analy- sis should shape any

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while forward operating bases endanger American convoy support personnel who must deliver fuel.

#### ---Second, military response ---Reliance on oil prevents military response to crises in hot spots

Bender '07

Bryan, Boston Globe, "Pentago study says oil reliance strains military," 5/1/07, citing LMI study and Milton R. Copulos, president of the National Defense Council Foundation, advisor on energy to the Secretary of Defense for the Defense Industrial Base Initiative and the principal consultant to the Department of Defense on the Defense Environment Initiative, member of the National Petroleum Council, former director of energy studies for the conservative Heritage Foundation, Senior Fellow at the Institute for the Analysis of Global Security, www.boston.com/news/nation/washington/articles/2007/05/01/pentagon\_study\_says\_oil\_reliance\_strains\_military/?page=1

WASHINGTON -- A new study ordered by the Pentagon warns that the rising cost and

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supply units that sustain them, which will result in increased energy consumption."

#### An energy transition increases DoD flexibility and mobility

Crowley et al '07

Thomas D., "Transforming the Way DOD Looks at Energy: An Approach to Establishing An Energy Strategy," Thomas D. Crowley, President, L. E. Peabody & Associates, Inc, Tanya D. Corrie David B. Diamond Stuart D. Funk Wilhelm A. Hansen Andrea D. Stenhoff Daniel C. Swift Policy consultants for LMI is a governmental consulting organization April 2007 http://www.lmi.org/News---Publications/publications/publication-detail.aspx?id=210 AD 9/13/12

An energy transformation that leverages process change in the short term and technological innovation in

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the support of the public while acting in concert with national environmental goals.

#### Mobility key to demonstrate strength and respond to international incidents

Crowley et al '07

Thomas D., "Transforming the Way DOD Looks at Energy: An Approach to Establishing An Energy Strategy," Thomas D. Crowley, President, L. E. Peabody & Associates, Inc, Tanya D. Corrie David B. Diamond Stuart D. Funk Wilhelm A. Hansen Andrea D. Stenhoff Daniel C. Swift Policy consultants for LMI is a governmental consulting organization April 2007 http://www.lmi.org/News---Publications/publications/publication-detail.aspx?id=210 AD 9/13/12

Recent experience indicates that the nature of the threat facing the United States is changing

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that address alternative supply sources and efficient consumption across all aspects of military operations

#### ---Transition solves—Reducing petroleum dependence sends a global signal of US strength and doesn’t sacrifice readiness

Parthemore and Nagl '10

Christine Fellow (CNAS), where she directed the Natural Security Program and the Natural Security Blog Adjunct Professor in Johns Hopkins University's Global Security Studies Program, and serves on the Council of Advisors for U-Mass Boston's Collaborative Institute for Oceans, Climate and Security and John,PhD, Oxford University, Master of the Military Arts and Sciences Degree from the U.S. Army Command and General Staff College, CNAS Senior Fellow, Minerva Research Fellow U.S. Naval Academy "Fueling the Future Force Preparing the Department of Defense for a Post-Petroleum Era" Sept 2010, Center for a New American Security http://www.cnas.org/files/documents/publications/CNAS\_Fueling%20the%20Future%20Force\_NaglParthemore.pdf.AD 9/13/12

A successful transition away from petroleum will produce financial, operational and strategic gains.

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armed services to accomplish their missions in the years and decades to come.

#### Preserving the perception of military effectiveness key—a weakened military invites aggression and rash wars

Feaver 3

Professor of Political Science at Duke, Peter D., Armed Services: Agency, Oversight, and Civil-Military Relations, p.213

The civil-military problematique is so vexing because it involves balancing two vital and

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leading them to rash behavior and then failing in the ultimate military contest.

#### Decline destabilizes all global hotspots

Russian aggression, Taiwan war, Korea war, Afghanistan war, Indo-Pak war, Pakistan war, Central Asia War, Israel war/strikes, Allied Prolif

Brzezinski '12 - Professor of Foreign Policy at SAIS

Zbigniew, PhD in government, scholar at CSIS, former National Security Advisor, "8 Geopolitically Endangered Species," Foreign Policy Jan/Feb '12, www.foreignpolicy.com/articles/2012/01/03/8\_geopolitically\_endangered\_species?page=full AD 9/16/12

With the decline of America's global preeminence, weaker countries will be more susceptible to

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extremism; a worldwide energy crisis; vulnerability of America's Persian Gulf allies.

#### Any of these would escalate into great power wars—American retrenchment collapse current restraints

Zhang and Shi 11 – \*Yuhan Zhang is a researcher at the Carnegie Endowment for International Peace, Currently on leave from Graduate School in Economic and Political Development, Lin Shi, MA from Columbia in International Affairs, also serves as an independent consultant for the Eurasia Group and a consultant for the World Bank

America’s decline: A harbinger of conflict and rivalry, http://www.eastasiaforum.org/2011/01/22/americas-decline-a-harbinger-of-conflict-and-rivalry/

This does not necessarily mean that the US is in systemic decline, but it

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forecast in a future that will inevitably be devoid of unrivalled US primacy.

## Advantage 2: Nuclear Proliferation

#### Expansion of nuclear power internationally coming now

Bernstein and Gerami 12

(Paul Bernstein, Senior Research Fellow in the Center for the Study of Weapons of Mass Destruction (CSWMD) at the National Defense University, and Nina Gerami, Research Fellow in CSWMD, \*\*\*ENR = uranium enrichment and plutonium reprocessing\*\*\* June 2012, “Proliferation Risks of Civilian Nuclear Power Programs” http://wmdcenter.dodlive.mil/files/2012/06/CSWMD-Proceedings-3-FINAL.pdf)

Nuclear Renaissance? Lending added urgency to nonproliferation efforts is the possibility that nuclear power

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deferring their plans, while others have vowed to stay on track.6

#### Unmanaged nuclear renaissance of status quo reactor tech ensures proliferation and nuclear terrorism

Macalister ‘09

Tony, The Guardian \*\*Citing Frank Charles Barnaby, Nuclear Issues Consultant to the Oxford Research Group, nuclear physicist, former Director of the Stockholm International Peace Research Institute, Professor at the VU University Amsterdam and awarded the Harold Stassen Chair of International Relations at the University of Minnesota AND Ian Kearns Deputy Chair of Institute for Public Policy Research’s Security Commission\*\* New generation of nuclear power stations 'risk terrorist anarchy' 3/16/09 www.guardian.co.uk/environment/2009/mar/16/nuclearpower-nuclear-waste AD 9/18/12

The new generation of atomic power stations planned for Britain, China and many other

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low-carbon energy and a stable nuclear weapons environment," he said.

#### Widespread prolif risks nuclear war—escalates ongoing disputes and risk of terrorist acquisition

Blechman '08

Barry, PhD in International Relations, Co-Founder/Distinguished Fellow at the Stimson Center, "Nuclear Proliferation: Avoiding a Pandemic," 9/29/08 www.stimson.org/books-reports/nuclear-proliferation-avoiding-a-pandemic/ AD 9/19/12

The world has been spared the detonation of a nuclear device in anger for more

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the next administration placing the highest priority on reining in the nuclear danger.

#### And those conflicts all escalate to extinction

Utgoff in 2 —Deputy Director of Strategy, Forces and Resources @Institute for Defense Analysis

 [Victor A., Deputy Director of Strategy, Forces, and Resources Division, Institute for Defense Analyses, “Proliferation, Missile Defence and American Ambitions,” Survival, v. 44 n. 2, Summer 2002].

In sum, widespread proliferation is likely to lead to an occasional shoot-out

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a hill to bury the bodies of dead cities or even whole nations.

#### Traditional deterrence theory doesn’t apply to rapid new proliferators—don’t have experience to prevent escalation

Horowitz ‘09

Michael C., PhD in Government at Harvard, Associate Professor of Political Science at the University of Pennsylvania, “The Spread of Nuclear Weapons and International Conflict: Does Experience Matter?” Journal of Conflict Resolution 2/10/09, cc.sjtu.edu.cn/G2S/eWebEditor/uploadfile/20120301175143\_293108991670.pdf, AD 9/19/12

Learning as states gain experience with nuclear weapons is complicated.While to some extent

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to find themselves in disputes with resolved adversaries that will reciprocate militarized challenges.

#### Nuclear terrorism triggers nuclear retaliation

Speice 6

Speice, Patrick F., Jr. "Negligence and nuclear nonproliferation: eliminating the current liability barrier to bilateral U.S.-Russian nonproliferation assistance programs." William and Mary Law Review 47.4 (Feb 2006): 1427(59). Expanded Academic ASAP.

The potential consequences of the unchecked spread of nuclear knowledge and material to terrorist groups

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in the United States and escalate to the use of nuclear weapons.53

#### DoD leadership on small nuclear reactors is key to locking the market—the alternative causes prolif and nuclear meltdowns

Andres and Breetz 11—national security professor @ National War College and Senior fellow/Energy and Environmental Security chair @ CSR

Richard and Andrea, “Small Nuclear Reactors for Military Installations: Capabilities, Costs, and Technological Implications” [http://www.ndu.edu/inss/docuploaded/SF%20262%20Andres.pdf] February

Domestic Nuclear Expertise. From the perspective of larger national security issues, if DOD

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will dictate standards on nuclear reactor reliability, performance, and proliferation resistance.

#### Strong US nuclear industry key to nuclear leadership and nonproliferation standards

Loudermilk ‘11

Micah J., MA in International Relations, research Associate with Energy & Environmental Security Policy Program at National Defense University, supports Andres and Brown "Small Nuclear Reactors and US Energy Security: Concepts, Capabilities, and Costs" 5/31/12 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 AD 9/18/12

Combating proliferation with US leadership Reactor safety itself notwithstanding, many argue that the scattering

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standards on nuclear agreements, spent fuel reprocessing, and developing reactor technologies.

## Plan

#### The United States Department of Defense should increase procurement contracts for small modular nuclear reactors deployed in the United States.

## Solvency

#### DoD market key to preventing SMR failure

Andres & Breetz ‘11

Richard B. Andres is Professor of National Security Strategy at the National War College and a Senior Fellow and Energy and Environmental Security and Policy Chair in the Center for Strategic Research, Institute for National Strategic Studies, at the National Defense University. Hanna L. Breetz is a doctoral candidate in the Department of Political Science at The Massachusetts Institute of Technology Small Nuclear Reactors for Military Installations: Capabilities, Costs, and Technological Implications Strategic Form Feb 2011 http://www.ndu.edu/press/lib/pdf/StrForum/SF-262.pdf

The “Valley of Death.” Given the promise that small reactors hold for military

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, gaining NRC certification for new technologies, and demonstrating technical viability.32

#### DoD has enormous procurement power—best way to develop

Fitzpatrick et al '11

Ryan, Senior Policy Advisor for Clean Energy; Josh Freed is the Vice President for Clean Energy at Third Way Mieke Eoyang is Director for National Security at Third Way ; Third Way is the leading think tank of the moderate wing of the progressive movement " Fighting for Innovation: How DoD Can Advance Clean Energy Technology... And Why It Has To ," http://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=web&cd=2&ved=0CEAQFjAB&url=http%3A%2F%2Fcontent.thirdway.org%2Fpublications%2F414%2FThird\_Way\_Idea\_Brief\_-\_Fighting\_for\_Innovation.pdf&ei=qvdLUMv9Bo369gS36IHQCg&usg=AFQjCNGb9TOO069aF0CT-EADvO8wsN9DjA June 2011 AD 9/8/12

Use the Procurement Process to Promote Innovative Energy Technologies The DoD has over $400

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DoD’s energy goals, even if these procurements come with higher upfront costs.