## T

### 1NC

#### The aff is not topical---energy production refers to the extraction, conversion, and distribution of energy---excludes R&D

Koplow 4 Doug Koplow is the founder of Earth Track in Cambridge, MA. He has worked on natural resource subsidy issues for 20 years, primarily in the energy sector "Subsidies to Energy Industries" Encyclopedia of Energy Vol 5 2004www.earthtrack.net/files/Energy%20Encyclopedia,%20wv.pdf

3. SUBSIDIES THROUGH THE … continue at extremely high levels in many of these countries as well.

## Elections

### 1NC

#### Obama will win now but it’s close and could reverse

Burns and Schultheis 9/19 Alexander and Emily are writers for Politico. “Mitt Romney needs poll vault to win,” 2012, http://www.politico.com/news/stories/0912/81392.html

Mitt **Romney faces an** increasingly … the country is on the right track and the economy is improving.

#### The plan’s explosive with the public---Fukushima had a chilling effect

CSI 12 Civil Society Institute. “SURVEY: AMERICANS NOT WARMING UP TO NUCLEAR POWER ONE YEAR AFTER FUKUSHIMA,” 3/7, http://www.civilsocietyinstitute.org/media/030712release.cfm

Contrary to Industry Predictions, Reactor Disaster Seen … little changed from the 53 percent level seen in the March 2011 survey.

#### Romney decks US-Russia Relations – threatens global insecurity, prolif, and extinction

Felton 12 Emmanuel Felton is a Toni Stable Fellow at the Columbia School of Journalism. "Mitt Romney Russia Quotes Signal Big Problems For Future US-Russian Relations," March, http://www.policymic.com/articles/6202/mitt-romney-russia-quotes-signal-big-problems-for-future-us-russian-relations

The importance of America’s alliance with Russia is … increasingly hostile Kremlin.

## CP

### 1NC

#### TEXT: The United States Federal Government should reduce restrictions on the development and licensing of small modular water reactors.

**The United States federal government should expand mining of rare earth elements.**

**The United States Federal Government should establish and Nuclear Waste Policy Commission to direct a evolutionary solution to nuclear waste storage in the United States including opening repositories and pursuing new waste disposal technologies.**

#### The CP jumpstarts US SMRs

Freed et al 10 Josh, Director of the Third Way Clean Energy Program, Elizabeth Horwitz, Policy Advisor at Third Way’s Clean Energy Program, and Jeremy Ershow, formerly a Policy Advisor at Third Way, September, "Thinking Small On Nuclear Power", content.thirdway.org/publications/340/Third\_Way\_Idea\_Brief\_-\_Thinking\_Small\_On\_Nuclear\_Power.pdf

**THE PROBLEM**¶ We don’t have sufficient … **within a decade domestically**22 **and go global soon after.**

#### The CP incentivizes SMRs that are based on current LWR technology—only the plan makes thorium SMRs viable, decreasing dependence on uranium.

NNL 12—National Nuclear Laboratory (UK), Comparison of thorium and uranium fuel cycles, NNL (11) 11593 Issue 5, A report prepared for and on behalf of Department of Energy and Climate Change, http://www.decc.gov.uk/assets/decc/11/meeting-energy-demand/nuclear/6300-comparison-fuel-cycles.pdf

6.7. Small modular water reactors¶ Small … puts this option at a low Technology Readiness Level.

#### US market dominance of SMRs is key to stop unsafe reactors from reaching the market.

Ferguson 10—President of the Federation of American Scientists. Adjunct Professor in the Security Studies Program at Georgetown University and an Adjunct Lecturer in the National Security Studies Program at the Johns Hopkins University. (Charles, Testimony before the House Committee on Science and Technology for the hearing on Charting the Course for American Nuclear Technology: Evaluating the Department of Energy’s Nuclear Energy Research and Development Roadmap, http://gop.science.house.gov/Media/hearings/full10/may19/Ferguson.pdf)

The United States and several other countries have …approach that considers all aspects of manufacturing, transportation, operation, and ultimate disposal.”

#### Commission solves waste and avoids controversy

Richard B. Stewart 8, University Professor and John Edward Sexton Professor of Law; Chair and Faculty Director, Hauser Global Law School Program; Director, Frank J. Guarini Center for Environmental and Land Use Law; New York University School of Law, 2008, “Symposium: Breaking the Logjam: Environmental Reform for the New Congress and Administration: Panel VII: Managing Waste: U.S. Nuclear Waste Law and Policy: Fixing a Bankrupt System,” New York University Environmental Law Journal, 17 N.Y.U. Envtl. L.J. 783

The second step Congress and the … that overlook cross-cutting opportunities.

### Uranium DA Link

#### A shift to thorium kills demand.

Lambert 12—I.B. Lambert, AA(Geoscience Australia, Secretary General 34th IGC, EGU General Assembly 2012, held 22-27 April, 2012 in Vienna, Austria, Global Uranium And Thorium Resources: Are They Adequate To Satisfy Demand Over The Next Half Century? http://adsabs.harvard.edu/abs/2012EGUGA..14.2544L

This presentation will consider the adequacy … significant inroads into the huge resource base over the next half century.

### SMR’s Better

#### All things equal, light-water SMRs will beat thorium—more compatible with regulations and tech.

McMahon 12—Jeff McMahon, Contributor, Forbes, 5/23/12, http://www.forbes.com/sites/jeffmcmahon/2012/05/23/small-modular-reactors-by-2022-but-no-market-for-them/

The same summary records doubt that SMRs ,,, say safer, fuels and cooling systems.

#### A strong SMR industry’s key to US leadership, market share, and cradle to grave

Mandel 9 (Jenny – Scientific American, Environment & Energy Publishing, LLC, “Less Is More for Designers of "Right-Sized" Nuclear Reactors” September 9, 2009, http://www.scientificamerican.com/article.cfm?id=small-nuclear-power-plant-station-mini-reactor)

Tom Sanders, president of the American … building them, or are we just importing them?"

### AT: Accidents

#### They link too

Tickell ’12 – British journalist, author and campaigner on health and environment issues, and author of the Kyoto2 climate initiative (Oliver, “Thorium: Not Green, Not Viable and Not Likely,” Nuclear Pledge, June, http://www.nuclearpledge.com/reports/thorium\_briefing\_2012.pdf)

3.4 Safety¶ Claim: LFTRs … intense neutron and other radiation.

## Kazakhstan DA

### 1NC

#### -- Low uranium prices hurts Kazakhstan’s industry

McDermott 11 (Roger, Senior Fellow, Foreign Military Studies Office, Fort Leavenworth, “Kazakhstan: Countering nuclear proliferation, Action to develop a nuclear and terrorist-free world,” in Kazakhstan 2011: Twenty Years of Peace and Creation, *First: The Forum for Global Decision Makers*, 2011, <http://www.firstmagazine.com/Publishing/SpecialReportsDetail.aspx?RegionId=4&SpecialReportId=96>)

Kazakhstan’s ambitions … stage will be profound.

#### -- Prevents diversification of Kazakhstan’s economy

Pleitgen 12 (Frederick, CNN, “Kazakhstan hopes uranium, oil and gas will fuel its future,” 7-18-12,

<http://articles.cnn.com/2012-07-18/asia/world_asia_kazakhstan-natural-resources-economy_1_vladimir-shkolnik-kazakhstan-uranium>)

Kazakhstan's mineral wealth …development to diversify the economy."

#### -- Destroys stability

Hamm 12 (Nathan, founder and Principal Analyst for Registan, MA in Central Asian Studies from the University of Washington, “Kazakhstan’s Stability, Central Asia’s Stability,” 1-31-12, <http://registan.net/2012/01/31/kazakhstans-stability-central-asias-stability/>)

I’m paraphrasing, but on the first …serious risks to stability are likely to arise.

#### -- Spreads throughout the region

Assenova 8 (Margarita Assenova, IND Director; Natalie Zajicova, Program Officer (IND); Janusz Bugajski, CSIS NEDP Director; Ilona Teleki, Deputy Director and Fellow (CSIS); Besian Bocka, Program Coordinator and Research Assistant (CSIS), “Kazakhstan’s Strategic Significance,” 2008, CSIS-IND Taskforce Policy Brief team, European Dialogue, <http://eurodialogue.org/Kazakhstan-Strategic-Significance>)

The decision by the … role and prestige of the OSCE throughout Central Asia.

#### -- Nuclear war

Ahrari 1 (M. Ehsan, Professor of National Security and Strategy of the Joint and Combined Warfighting School at the Armed Forces Staff College, August 2001, “Jihadi Groups, Nuclear Pakistan and the New Great Game,” http://www.strategicstudiesinstitute.army.mil/pdffiles/pub112.pdf)

South and Central Asia …, thus representing a gain for all concerned.

### AT: Your Author Votes Aff

#### Kazakhstan is the leader

MME 11 --- MINISTRY OF MINES AND ENERGY – Republic of Namibia, “DRAFT NUCLEAR FUEL CYCLE POLICY,” 11-25-11, <http://www.mme.gov.na/pdf/Draft_Nucler_Policy_Stakeholders_%28Final%29.pdf>

Global Market and need for uranium¶ The … importance of uranium for Namibia

### K K2 Regional Stability

#### Strong Kazakh leadership’s key to Central Asian stability

CSIS-IND 8 --- Center for Strategic and International Studies (CSIS) and the Institute for New Democracies (IND), Kazakhstan’s Strategic Significance, 2008, <http://eurodialogue.org/Kazakhstan-Strategic-Significance>

Kazakh leaders are … political or economic independence.

### CA Impacts

#### Central Asian instability escalates - draws in major powers and causes nuclear war - miscalculation means no cooperation

Peimani 2 - Head of Energy Security and Geopolitics @ the Energy Studies Institute (Dr. Hooman, “Failed Transition and Bleak Future? War and Instability in Central Asia and the Caucasus,” Book, <http://www.questia.com/PM.qst?a=o&d=101331065>

If the existing negative trend continues, the entire Caucasus and …stability of the international system and global peace.

#### And escalation’s guaranteed

Sahgal and Anand 10 (Arun, former Army officer who created the Office of Net Assessment in the Indian Joint Staff, Senior Fellow at the Institute for Defense Studies and Analyses and ‘Distinguished Fellow’ School of Geo-Politics at the Manipal Academy of Higher Education and Vinod, postgraduate in defence and strategic studies and is an alumnus of Defence Services Staff College and College of Defence Management, “Strategic Environment in Central Asia and India”, <http://www.silkroadstudies.org/new/docs/publications/1004Joshi-V-Strategic.pdf>)

The geo-strategic salience of Central Asia today … in their internal affairs.

### Turns Case

#### Kazakh key to diversify REM market

Blank 12 (Stephen, Eurasian Daily Monitor, “Kazakhstan Completes Major Uranium and Rare Earths Deals with Japan,” Eurasia Daily Monitor Volume: 9 Issue: 144, 7-30-12, <http://www.jamestown.org/programs/edm/single/?tx_ttnews%5Btt_news%5D=39705&cHash=4e68ec740b98fe390061af8ca1769b6c>)

Similarly Kazakhstan is poised for … rare earths is expected to grow substantially in the coming years, allowing Kazakhstan to reap a bonanza from deals with major importers and growing economies.

#### Kazakhstan’s expanding its uranium exports due to the surge in global nuclear power demand --- promotes its nonprolif credibility, regional leadership and security

Stephen Blank 12, professor at the Strategic Studies Institute of the US Army War College, Kazakhstan Completes Major Uranium and Rare Earths Deals with Japan, Eurasia Daily Monitor Volume: 9 Issue: 144, July 30, 2012, [http://www.jamestown.org/programs/edm/single/?tx\_ttnews[tt\_news]=39705&cHash=4e68ec740b98fe390061af8ca1769b6c](http://www.jamestown.org/programs/edm/single/?tx_ttnews%5btt_news%5d=39705&cHash=4e68ec740b98fe390061af8ca1769b6c)

Since 2009, Kazakhstan has become the … which they and it can only benefit.

### UQ

#### Uranium prices will increase now – supply, seasonality and industry catalysts

David Sadowski 12, mining research analyst with a background in geological science, 8-24-2012, “Uranium prices set to spike in 2013,” Mine Web, http://www.mineweb.com/mineweb/view/mineweb/en/page72103?oid=157609&sn=Detail&pid=102055

DS: We're definitely bullish on the outlook …in 2014 and 2015 before settling to $70/lb in the long-term.

#### Uranium prices will inevitably rise – slack Japanese capacity and major supply shortage

Kathryn Diss 12, 8-15-012, “Uranium miners push ahead despite turbulence,” ABC, http://www.abc.net.au/news/2012-08-15/the-uranium-industry-is-pushing-ahead-despite-price-halving/4201378?section=wa

Resource analyst Haris Khaliqi says he … agreement between Russia and the United States in 2014," he said.

#### Uranium prices will skyrocket now

Nathan Slaughter, ed. Scarcity and Real Wealth, 2-9-2012, “The World Has to Have this Resource,” Street Authority, http://www.streetauthority.com/energy-commodities/world-has-have-resource-there-simply-isnt-enough-it-458945

Most people have never heard of the "Megatons to …, even $1,000 a pound. That's a long way up from today's $55

#### Nuclear revival jumpstarts Kazakhstan’s uranium exports

Crae Garrett 8, Partner, and Zhibek Aidymbekova, Senior Associate, “Uranium mining in Kazakhstan and pervasive state participation: A Canadian comparative perspective,” Norton Rose, December 2008, <http://www.nortonrose.com/knowledge/publications/65869/uranium-mining-in-kazakhstan-and-pervasive-state-participation-a-canadian-comparative-perspective>

It is not surprising then, that Kazakhstan, … of another uranium-rich industry leader nation, Canada.

## Namibia DA

### 1NC

#### High prices key to Namibia’s economy and keep down unemployment.

MME 11 --- MINISTRY OF MINES AND ENERGY – Republic of Namibia, “DRAFT NUCLEAR FUEL CYCLE POLICY,” 11-25-11, <http://www.mme.gov.na/pdf/Draft_Nucler_Policy_Stakeholders_%28Final%29.pdf>

Global Market and need for uranium¶ The need … supporting many other indirect beneficiaries.

#### Unemployment facilitates crime and drug trafficking.

Mmegi 10—Mmegi Online, 9/29/10, Namibia unemployment climbs to 51.2%, <http://www.mmegi.bw/index.php?sid=4&aid=5290&dir=2010/September/Wednesday29>

Government yesterday announced the … the rise in illegal drug trade and intakes.

#### Namibia’s a transshipment point between Latin America and the rest of Africa.

Barry 11—Zenobia Beatrix Barry, Office of The Prosecutor General, Ministry of Justice, Namibia, 11

CHALLENGES IN THE INVESTIGATION, PROSECUTION AND TRIAL OF TRANSNATIONAL ORGANIZED CRIME IN NAMIBIA

On a global scale Namibia cannot really … drug parcels collected in producing countries like Brazil.

#### Funds South American cartels and causes African instability.

Brownfield 12—William R. Brownfield, Assistant Secretary, Bureau of International Narcotics and Law Enforcement Affairs, Statement before the Senate Caucus on International Narcotics Control, Washington, DC, May 16, 2012, <http://www.state.gov/j/inl/rls/rm/190188.htm>

Transnational organized crime, … action to address drug trafficking.

#### Crushes the Amazon and South American biodiversity

Barraca 10—Sara, Dialogo News, Drug Trafficking Damaging Amazon Basin, Diálogo is a professional military magazine published quarterly by the Commander of the United States Southern Command as an international forum for military personnel in Latin America, 3/12, [www.dialogo-americas.com/en\_GB/articles/rmisa/features/regional\_news/2010/12/03/feature-01](http://www.dialogo-americas.com/en_GB/articles/rmisa/features/regional_news/2010/12/03/feature-01)

Drug trafficking organizations are …loss of aquatic resources (fish)," he said.

Extinction

Takacs 96—Takacs, David, 1996 Philosophies of Paradise, The Johns Hopkins Univ. Pr., Baltimore.

"Habitat destruction and …**war**, which could **extinguish civilization.""**

## Prolif Adv

### 1NC

#### Claims of proliferation resistance are false—thorium reactors produce U-233 which can be used for nukes – trust the IAEA not industry hacks.

NNL 12—National Nuclear Laboratory (UK), Comparison of thorium and uranium fuel cycles, NNL (11) 11593 Issue 5, A report prepared for and on behalf of Department of Energy and Climate Change, http://www.decc.gov.uk/assets/decc/11/meeting-energy-demand/nuclear/6300-comparison-fuel-cycles.pdf

The absence of plutonium is in the thorium …cycle and there is no overall benefit.

#### Proliferation resistance of thorium is a misleading.

Boyd 9—Michele Boyd, Director of the Safe Energy Program at Physicians for Social Responsibility, and Arjun Makhijani, electrical and nuclear engineer who is President of the Institute for Energy and Environmental Research, 2009, A Fact Sheet Produced by Physicians for Social Responsibility and the Institute for Energy and Environmental Research, http://ieer.org/resource/factsheets/thorium-fuel-panacea-nuclear-power/

Thorium is not actually a “fuel” because it is … today’s once-through uranium fuel cycles.

#### Turn—thorium causes reprocessing—once-through is technically feasible, but doesn’t offer an economic advantage to justify the investment.

NNL 10—The Thorium Fuel Cycle, An independent assessment by the UK National Nuclear Laboratory, August 2010, http://www.nnl.co.uk/media/27860/nnl\_\_1314092891\_thorium\_cycle\_position\_paper.pdf

While the thorium fuel … in the thorium¶ cycle on its own.

#### US reprocessing opens the floodgates.

UCS 11 – Union of Concerned Scientists (“Nuclear Reprocessing: Dangerous, Dirty, and Expensive,” April 5, http://www.ucsusa.org/nuclear\_power/nuclear\_power\_risk/nuclear\_proliferation\_and\_terrorism/nuclear-reprocessing.html)

Reprocessing would increase … proliferation-prone than direct disposal.

#### Turns prolif

McGoldrick 11 – has extensive experience in nuclear non-proliferation and international nuclear policy fields. He held senior positions in the U.S. Department of Energy and the U.S. Department of State, where he negotiated U.S. peaceful nuclear cooperation agreements and helped shape U.S. policy to prevent the spread of nuclear weapons. He also served in the U.S. Mission to the International Atomic Energy Agency (IAEA) in Vienna. Since his retirement from the State Department, he has been a partner in Bengelsdorf, McGoldrick and Associates, LLC., an international consulting firm (Fred, “Limiting Transfers of Enrichment and Reprocessing Technology: Issues, Constraints, Options,” May, Harvard Kennedy School: Belfer Center for Science and International Affairs, http://belfercenter.ksg.harvard.edu/files/MTA-NSG-report-color.pdf)

The diffusion of enrichment and … to countries that lack such capabilities.

#### US cred doesn’t solve global prolif—

#### B—No matter what safeguards the US imposes, states can always wait till the technology matures then break out

Steven A Miller and Scott D. Sagan, Fall 2009, “Nuclear Power without Nuclear Proliferation?” Daedalus, <http://iis-db.stanford.edu/pubs/22659/Sagan_Nuclear_power_without_nuclear_proliferation.pdf>

Concerns about proliferation … unsuccessful, the nuclear future will be dangerous.

#### No impact to prolif --- states won’t use them offensively

John Mueller 10, professor of political science at Ohio State University, Calming Our Nuclear Jitters, Issues in Science & Technology, Winter2010, Vol. 26, Issue 2

The fearsome destructive … valueless and a very considerable waste of money and effort.

#### Terrorists don’t have the technical know-how or resources for nuclear weapons

Umana 11 – Felipe Umana is a contributor to Foreign Policy In Focus, from the Institute for Policy Studies. August 17, 2011, "Loose Nukes: Real Threat?" http://www.fpif.org/articles/loose\_nukes\_real\_threat

Actors seeking to acquire …to contain the material.

### XT Worse for Prolif

#### Thorium causes prolif and terrorism.

Beste 10—Steven Den Beste, former software engineer at Qualcomm, Hot Air, 8/31/10, Nuclear Weapons for the Masses! http://hotair.com/greenroom/archives/2010/08/31/nuclear-weapons-for-the-masses/

Glenn Reynolds tends to get hyped on …weapons.¶ ¶ Is that a “faster please”?

#### Consensus that thorium isn’t prolif resistant.

Royal Society 11—Fuel cycle stewardship in a nuclear renaissance, The Royal Society Science Policy Centre

Alternatives to uranium or plutonium … U-233 could be used in nuclear weapons.

### XT Reprocessing Turn

#### The majority of LWRs use a once-through fuel cycle which is proliferation safe—no push coming for reprocessing without the plan.

NNL 12—National Nuclear Laboratory (UK), Comparison of thorium and uranium fuel cycles, NNL (11) 11593 Issue 5, A report prepared for and on behalf of Department of Energy and Climate Change, http://www.decc.gov.uk/assets/decc/11/meeting-energy-demand/nuclear/6300-comparison-fuel-cycles.pdf

3.5. Proliferation risk¶ Spent uranium …utilities to invest in new reprocessing plants.

#### Spent fuel pools are comparatively safer

UCS 11 – Union of Concerned Scientists (“Reprocessing and Nuclear Terrorism,” March 21, http://www.ucsusa.org/nuclear\_power/nuclear\_power\_risk/nuclear\_proliferation\_and\_terrorism/reprocessing-and-nuclear.html)

Over three decades ago, the United …to diversion or theft at every stage.

## REE Adv

### 1NC

#### The WTO just backhanded China’s rare earth export restrictions---guarantees U.S. access

David Bosco 1-30, assistant professor at American University's School of International Service, January 30, 2012, “WTO rules against China on 'rare earth' minerals,” online: http://bosco.foreignpolicy.com/posts/2012/01/30/wto\_rules\_against\_china\_on\_rare\_earth\_minerals

The World Trade Organization's … compete on a level playing field.

#### Domestic production and E-waste recycling make China irrelevant by next year

Leon Kaye 12-6, editor of GreenGoPost and contributor to The Guardian’s Sustainable Business section, December 6, 2011, “Conflicted Rare Earth Minerals Prices to Decline,” online: http://www.triplepundit.com/2011/12/rare-earth-minerals-prices/

Now various reports suggest that …products that will benefit all of us in the long run.

#### No Sino/Japanese war – interdependence solves

O’Neil 7—Snr lecturer, IR, Flinders U, Australia (Andrew, Nuclear proliferation in Northeast Asia: the quest for security, 99-101, AMiles)

The assumption underlying pessimistic views about the …choice but to adapt their overall strategic relationship to the unavoidable reality of mutual assured destruction.

The U.S. won’t actively pursue primacy---certainty of a disarming first strike is impossible and any retaliatory strike would impose unacceptable damage

Safranchuk 6 – Ivan Safranchuk, Director of the World Security Institute’s Moscow Office, Autumn 2006, “Beyond MAD,” China Security, Issue No. 4, online: http://www.wsichina.org/cs4\_6.pdf

Overwhelming superiority, on the … framework between the nuclear powers.

### 1NR Cards

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

Steve LeVine 10, contributing editor at Foreign Policy, October 21, 2010, “Is China's rare earth power play really such a big deal?,” online: http://oilandglory.foreignpolicy.com/posts/2010/10/21/is\_chinas\_rare\_earth\_power\_play\_really\_such\_a\_big\_deal

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

#### New Japanese discoveries destroy China’s monopoly

HSN 11 – Homeland Security News Wire, July 7, 2011, “Japanese discovery could undermine China's rare earth dominance,” online: http://www.homelandsecuritynewswire.com/japanese-discovery-could-undermine-chinas-rare-earth-dominance

A new discovery by Japanese …the ocean floor around Papua New Guinea.

#### The U.S. is incentivizing domestic production---will cause self-sufficiency

Marc Humphries 11, Specialist in Energy Policy at the Congressional Research Service, September 6, 2011, “Rare Earth Elements: The Global Supply Chain,” online: http://www.fas.org/sgp/crs/natsec/R41347.pdf

The concentration of rare … chain in the United States.