### 1NC K

#### Technological advancements intentionally mask destruction of the environment

Luke 1 (Timothy W., Prof @ Virginia Tech “World Health and the Environment: Globalization's Ambiguities.” http://www.cddc.vt.edu/tim/tims/TIM807.htm)

2001 could be better understood as the year in which ambiguities are overcome, and

AND

for whom democratic procedures are invalid" (Beck, 1992: 14).

#### Environmental management causes ecological degradation by viewing Nature as an arrange-able resource for human consumption- justifies domination and destruction

Katz 2k (Eric, associate professor of philosophy and director of the Science, Technology, and Society Program, New Jersey Institute of Technology, “Nature as Subject: Human Obligation and Natural Community.”)

Even more important, the question arises whether or not Nature can heal these wounds

AND

Human science and technology will fix, repair, and improve natural processes.

#### Alt is to reject techno-managerialism, only then can we establish a relationship with nature

McWhorter 92 (Ladelle, Prof of Philosophy and Women, Gender & Sexuality studies @ Univ. of Richmond “Guilt as Management Technology: A Call to Heideggerian Reflection” Heidegger and the Earth, pg. 1-4)

Heidegger calls us to give thought to — or give ourselves over to thought of

AND

also ground the most basic patterns of our current ways of being human.

### CP 1

#### The United State Federal Government should ban all financial energy incentives.

#### Energy subsidies must be eliminated to spur innovation and become competitive in the market

#### **Phillips**, president of Americans for Prosperity, the nation’s leading free-market grass-roots organization **and From**, Illinois state director of Americans for Prosperity, the nation’s leading free-market grass-roots organization, **6-28**-12 (Tim Phillips and David From, “Eliminate Energy Subsidies”, State Journal Register, <http://www.sj-r.com/opinions/x1762345964/Tim-Phillips-and-David-From-Eliminate-energy-subsidies?zc_p=0>)

Obviously, it’s time for lawmakers to realize that if a new technology truly has

AND

their professed free-market principles and get rid of these special giveaways.

#### Politics is a net benefit

Randazzo, ’12 INCENTIVES AT EVERY TURN By Ryan Randazzo, Posted 5/6/2012 The Arizona Republic http://www.usatoday.com/USCP/PNI/Business/2012-05-06-PNI0506biz-subsidiesPNIBrd\_ST\_U.htm

Amid all the debate regarding subsidies, political polar opposites have found common ground calling

AND

), you need to work together with people that are aligned with you."

###  CP 2

1. The fifty United States and relevant territories should provide Cash Grants to nontaxable entities for community and residential solar power.

#### States solve best and the feds will model- *starting* with the states is key to avoid politics

Thomson and Arroyo 2011 (Vivian Thomson is an Associate Professor in the Departments of Politics and Environmental Sciences at the University of Virginia. She also directs the Environmental Thought and Practice program, a selective interdisciplinary BA program, and she is director of the University of Virginia's Panama Initiative. She holds an A.B. in Biology from Princeton University, an M.A. in Biology from the University of California, Santa Barbara, and a Ph.D. in Government from the University of Virginia. Vicki Arroyo is the Executive Director of Georgetown's Climate Center at Georgetown Law, where she is a Visiting Professor, teaching a course on climate change and the law. She holds a B.S. in biology from Emory, an M.P.A. from Harvard and a J.D. from Georgetown Law Center, UPSIDE-DOWN COOPERATIVE FEDERALISM: CLIMATE CHANGE POLICYMAKING AND THE STATES, 29 Va. Envtl. L.J. 1, lexis)

Overview¶ ¶ When it comes to fixing the broken politics of global warming,

AND

policymaking demands a new, "upside-down" cooperative federalism model.

### Nat Gas DA

#### Natural gas is dominating the energy sector now – abundant shale gas supplies

Conrad 8/9/12 (Roger S. Conrad is editor of Utility Forecaster, August 9, 2012, Natural Gas Prices Tick Up On Hot Weather, But Investors Shouldn't Expect Much More Upside, http://seekingalpha.com/article/795201-natural-gas-prices-tick-up-on-hot-weather-but-investors-shouldn-t-expect-much-more-upside)

Four months ago, natural gas bottomed out at a 10-year low of

AND

return to even last summer's price range of $4 to $5.

#### Solar energy is zero sum with natural gas – there is a direct trade-off.

Jerusalem Post -12 (Jerusalem Post, November 12, 2010, The politics of solar power, DAVID SHAMAH , Lexis)

UN IS SUN, and electricity is electricity - or should be, says MK

AND

Corporation main lines, and the electricity generated is transferred to IEC substations.

#### Natural gas is critical to the steel industry, competitiveness, economy and energy independence.

Gibson -12 (Thomas Gibson, January 17, 2012, President & CEO, American Iron and Steel Institute, Steel Industry Poised to Gain with Gas, http://energy.nationaljournal.com/2012/01/whats-ahead-for-natural-gas.php)

Domestic natural gas holds the potential to yield unsurpassed economic and energy benefits for the

AND

that the current low cost and availability are driving this remarkable manufacturing renaissance.

#### Resource tension causes nuclear conflict with Russia and China – the impact is extinction

Henderson 7, Besline Research CEO/President/consultant, (Bill, *CounterCurrents.org,* February 24,“Climate Change, Peak Oil, and Nuclear War”, <http://www.countercurrents.org/cc-henderson240207.htm>, 7/9/08)

[Countercurrents.org](http://www.countercurrents.org/cc-henderson240207.htm) By Bill Henderson Damocles had one life threatening sword hanging by a

AND

to extinction for humanity and much of what we now recognize as nature.

### Elections

#### Obama will win but it’s close- enthusiasm gap and best polling data proves

Silver 9/13/2012 (Nate, Genius, writer for FiveThirtyEight, now under the New York Times, The blog is devoted to rigorous analysis of politics, polling, public affairs, sports, science and culture, largely through statistical means, Sept. 12: Polls Since Conventions Point to Decline in ‘Enthusiasm Gap’, http://fivethirtyeight.blogs.nytimes.com/2012/09/13/sept-12-polls-since-conventions-point-to-decline-in-enthusiasm-gap/#more-34463)

On average among the five polling results, however, the gap has been 1

AND

the popular vote and an 80 percent chance of winning the Electoral College.

#### Deficit is a hot-button issue—political hesitance renewable energy incentives

Mahn, ’12 Global Insight¶ March 14, 2012¶ US Senate Kills Renewables Tax Credit Extension; Solar Power on the Rise¶ BYLINE: Claudia Mahn¶ SECTION: In Brief

Significance: The Senate's failure to extend the support measures stems from a reluctance among

AND

-2,800MW, as a backlog of large projects is completed.

#### Base Mobilization key to winning the election—empirically proven for incumbents

#### WSJ 5/22 (The Wall Street Journal “As in 2004, energizing the base a key to victory” 5/22/12 <http://www.myfoxdfw.com/story/18583004/as-in-2004-energizing-the-base-a-key-to-victory#ixzz1MekSBwU>) KY

President Barack Obama does not often dwell on similarities to his predecessor, George W

AND

But 2004 suggests that both sides' strategies may start with mobilizing the core.

#### The impact is US-Sino Conflict—

#### 2 internal links – Romney will label china a currency manipulator and Obama will do it if he’s going to lose

Dawson and Mason, 12

Stella and Jeff, Columnists @ Reuters, 2/13, http://www.reuters.com/article/2012/02/13/us-usa-campaign-obama-china-idUSTRE81C0DG20120213

Tough calculus for Obama in Chinese leader's election-year visit¶ Even as he

AND

as we have been in the past, about where we have differences."

#### ENSURES ESCALATING TENSIONS – RESULTS IN TBILL SELL OFF, ECONOMIC COLLAPSE AND RELATIONS FAIL.

MCNALLY 9. [Chris, research fellow and political economist @ East-West Center, “CHINA-U.S. ECONOMIC RELATIONS: FROM SYMBIOSIS TO RUPTURE?” East West Center -- Feb 8 -- <http://www.eastwestcenter.org/news-center/east-west-wire/china-us-economic-relations-from-symbiosis-to-rupture/>]

The unraveling of this synergy is already creating tensions, recently illustrated by the war

AND

constant dialogue is urgently required to steer this fragile relationship through tough times.

#### U.S.-China conflict is the most probable scenario for great power war

IHT ’02 (International Herald Tribune, 12-26, Lexis)

Preoccupation with the war against terror, Iraq and now North Korea must not blind U.S. officials to any opportunity to defuse the only conflict that could plausibly take America to war against another great power in the early years of the 21st century. Jiang's offer may be part of a much larger effort by Beijing during the past 18 months, and especially since the terrorist attacks on the United States in September 2001, to put forward a more constructive and responsible international face, particularly in improving U.S.-Chinese relations.

### 1NC Grid

#### Grid Modernization Unlikely – No One Wants to Do It

NYT August 27, 2008 Wind Energy Bumps Into Power Grid’s Limits By Matthew L. Wald

Energy Department leaders say that, however understandable the local concerns, they are getting

AND

to fight the political battles necessary to get such a transmission backbone built.

#### Cant Solve Grid Problems

Tverberg, 12 (Gail, received a M.S. in Mathematics from the University of Illinois, Fellow of the Casualty Actuarial Society and a Member of the American Academy of Actuaries, Much of her early career was spent with CNA Insurance Companies in Chicago, Illinois. There she was involved in both pricing and reserving of casualty insurance coverages, “The Six Obstacles Facing US Wind Energy”, The Oil Drum, 1/19/12, lexis) WP

Obstacle 4: In the US, we do not have an electrical grid that

AND

very difficult, such as that currently done by helicopters in remote locations.

#### Lack of Modernization Prevents Scalability

NYT August 27, 2008 Wind Energy Bumps Into Power Grid’s Limits By Matthew L. Wald

Texas and California have recently made some progress in building transmission lines for wind power

AND

fuels, the grid has not been modernized, especially for wind energy.”

No blackouts—05 Energy bill solves
IEEE 7 (Institute of Electrical and Electronics Engineers, Inc, “Reliability and Blackouts,” 4-25-2007+, http://www.electripedia.info/reliability.asp)

After the major blackouts of 1965, the North American Electric Reliability Council (NERC

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reliability and safety of the nation’s electric power system for decades to come.

### 1NC Econ

#### Job Numbers Are Inflated

David W. Kreutzer, Ph.D. Research Fellow in Energy Economics and Climate Change 2012 June 28 The Federal Green Jobs Agenda: What the Job Counts Actually Tell Us http://www.heritage.org/research/testimony/2012/06/job-counts-and-the-federal-green-jobs-agenda

On March 22, 2012, the Bureau of Labor Statistics (BLS) issued

AND

,313 green jobs in the septic tank and portable toilet servicing industry.

#### And Drains From More Productive Sectors of the Economy

Nicolas Loris Policy Analyst at The Heritage Foundation's Roe Institute for Economic Policy Studies February 2, 2012 at 3:00 pm We Need Wind Subsidies Like We Need VHS Subsidies http://blog.heritage.org/2012/02/02/we-need-wind-subsidies-like-we-need-vhs-subsidies/

Remember VHS? Imagine this:¶ VHS has been a staple of the American way

AND

energy tax credit makes as much sense as a VHS production tax credit.

#### **Foreign Contracts Are Offsetting Market Uncertainty**

Jacobs 7/30 (Jennifer, Contributor to the Des Moines Register, Wind energy tax credit splits Obama, Romney, http://www.desmoinesregister.com/article/20120730/NEWS09/120730024/Wind-energy-tax-credit-splits-Obama-Romney) kc

Potential job loss? ‘We just don’t know’ Just how many layoffs could Iowa

AND

United States, so they would likely avoid significant layoffs, he said.

#### No chance of economic competition – Germany already beat us

The Gazette, August 3rd[2012, Germany tops world market for solar-energy generation; Facility building frenzy adds 4,300 megawatts, Lexis]

Germany installed a record of around 4,300 megawatts of solar-power capacity

AND

well below the retail electricity price of 23 cents per kw/h.

### 1NC Solvency

#### Solar companies provide a laundry list of fail buckets

Globe and Mail, July 14th [2012, In the darkness, solar industry sees some light; As vanishing subsidies and plunging panel prices send companies into bankruptcy, there are some rays of hope signalling that this alternative energy may be on a path to recovery, Lexis]

[one]- Solyndra, an upstart California solar panel maker that got more than

AND

generators), withdrew an $183-million initial public offering in April,

#### Solar power ineffective investment even Jaba the Hut companies fail

Chumley, Cherly. BP gives up on solar power. 2/2/12. <http://news.heartland.org/newspaper-article/2012/02/02/bp-gives-solar-power>

BP, an energy company that won praise from environmental activists after adopting the slogan

AND

in an open marketplace against the reliability and low cost of fossil fuels.”

#### Solar power has excess capacity in the squo, it is pointless to increase production incentives

Wang, Ucilia. 6/27/12. Forbes. Report: Solar panel supply will far exceed demand beyond 2012. <http://www.forbes.com/sites/uciliawang/2012/06/27/report-solar-panel-production-will-far-exceed-demand-beyond-2012/>.

When solar equipment manufactures began posting big losses during 2011, forcing some to close

AND

half or plan to add more production lines in the next few years.

#### 3. It doesn’t matter how much costs have changed, Americans still have perceptions it costs way too much and aren’t interested

Business Wire, April 25th [2012, New Data Shows 97% of Americans Overestimate the Cost of Installing Solar Panels; National Survey Reveals Misconceptions Prevent 2 out of 3 Homeowners from Going Solar, Lexis]

Sunrun , the nation's largest home solar company, today announced results of a nationwide

AND

solar within the next year if they knew cost were not a factor.

|  |
| --- |
| What Americans Think it Costs to Go Solar |

#### Increasing production only drains already stressed non-resources, and links to climate change

McKinnon, Shaun. 01/17/10. Amid state’s push for solar power, water-supply worries arise.http://www.azcentral.com/arizonarepublic/news/articles/2010/01/17/20100117water-solar0117.html.

Arizona can offer solar-energy developers legendary sun-drenched skies and thousands of

AND

power projects are expected to develop. "With all the buzz about r

enewables, we better be careful that the solar energy we produce is not the sort that requires a great deal of water," Kyl said, "because that is not a renewable resource." Experts say an important factor to consider in selecting a location for a power plant is the site's existing use. Some planned projects, including the huge Solana plant proposed by Arizona Public Service near Gila Bend, would be built on land once used for agriculture, often atop deep aquifers. Water is already available - as groundwater rights belong to the landowner - and in most cases, the plants would consume less than the farms they replace. "If you're really looking at sustainability, solar is a better bet than agriculture," said Arizona State University researcher Martin Pasqualetti, who studies the link between water and energy. "None of us are eating cotton, which is where we're getting most of the water for these projects. I argue solar will be of more benefit to the state economically." UA's Glennon said such a reallocation of water from farms to solar power represents a wise choice for Arizona. He warns, however, against the scores of projects staked out on parcels of untouched public lands, where the only source of water is aquifers whose amounts of water are either unknown or difficult to measure. The U.S. Bureau of Land Management is reviewing applications for 33 such projects in Arizona. The Mohave County projects also would rely on groundwater in areas that have never supported farms or homes. The expected drain on resources has mobilized residents who worry about the strain on a non-renewable source of water. "Water is gold here," said Denise Bensusan, a community activist who has worked on a water-advisory group.

#### Concentrated Solar Power trends are misleading – it cant compete

PR Newswire, Feb 7th [2012, Concentrating Solar Power (CSP), Lexis]

The seemingly smooth upward curve of CSP productions hides some facts that will impinge future

AND

not permanent, they will retard implementation of CSP for a few years.

#### State-level cash incentives are super-effective and make current federal tax credits work- solves all federal key warrants

Sarzynski et al 2012 (Andrea, assistant professor at the University of Delaware's School of Public Policy & Administration and a faculty affiliate at the Delaware Environmental Institute, Jeremy Larrieu, Energy Industry Analyst at Federal Energy Regulatory Commission, Gireesh Shrimali, Assistant Professor of Information Systems at the Indian School of Business, The impact of state financial incentives on market deployment of solar technology, Energy Policy, Volume 46, July 2012, http://dx.doi.org/10.1016/j.enpol.2012.04.032)

The impact of cash incentives on PV installations appears quite important to market deployment.

AND

short period of time after purchase (i.e., 90 days).

#### Key to education- 1NC Thomson and Arroyo says state-level action is necessary to understand national debates over energy- also state action on energy is common and in the lit

Hartley 11 (Todd Jefferson, JD, Associate at Watkins and Eager PLCC, University of Florida Journal of Law & Public Policy, “Handshake Deals; The Future of Interstate Agreements and the Interstate Compacts Clause”, L/X) CC

Federalism is making a comeback in the United States. The federal government is both

AND

the classic indicia and contract tests when a potentially covert agreement is present.

#### **Uniform state action on energy has a precedent and is approved of by the feds**

Craig 10 (Robin Kundis, Associate Dean for Environmental Programs at Florida State University, “Constitutional Contours for the Design and Implementation of Multistate Renewable Energy Programs and Projects”, <http://papers.ssrn.com/sol3/papers.cfm?abstract_id=1482611>) CC

Conversely, coordinated single-state-based plans and laws that encourage production of

AND

Subsection acknowledges this possibility through recent examples in the conventional¶ energy context.

#### States have created interstate compacts on energy production before

Dhanju et al 11 (Amardeep, Jeremy Firestone, Willett Kempton, Center for Carbon Free Integration, University of Delaware, “Potential Role of Power Authorities in Offshore Wind Power Development in the US”, <http://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=web&cd=6&ved=0CFUQFjAF&url=http%3A%2F%2Fwww.ceoe.udel.edu%2Fwindpower%2Fresources%2FPower-Authorities_Energy-Policy-2011_Dhanju-et-al_Final-Proof.pdf&ei=t74aULz5AajliQLwhIBw&usg=AFQjCNGfeuq9kstITn8maTNiw82DHmKuvQ>) CC

Interstate compacts are powerful, durable and adaptive tools for¶ promoting cooperative action among

AND

it would create a dedicated power authority to¶ provide the needed institutional framework

#### Interstate compacts are used all the time – help maintain flexibility

DeGolian 12 (Crady, February 22, Council of State Governments, “Interstate Compacts as a Policy Option to Enhance the Transmission Line Siting Process”, <http://knowledgecenter.csg.org/drupal/content/interstate-compacts-policy-option-enhance-electric-transmission-line-siting-process>) CC

Interstate compacts are contracts between two or more states creating an agreement on a variety

AND

use of interstate compacts to create administrative agencies to solve ongoing state problems.

#### Natural gas is critical to chemical and the steel industry.

Pooley -12 (ERIC POOLEY, Environmental Defense Fund, AUGUST 10, 2012, Natural Gas – A Briefing Paper For Candidates, http://blogs.edf.org/energyexchange/2012/08/10/natural-gas-a-briefing-paper-for-candidates/)

While a majority of Americans remain unfamiliar with hydraulic fracturing, or "fracking,"

AND

sense of the potential for U.S. energy independence and energy security

#### Chem industry solves everything—Impact is extinction

Baum, editor-in-chief of the American Chemical Society's Chemical and Engineering News 1999(Rudy M. Baum, C&E News, “Millennium Special Report,” 12-6-99, http://pubs.acs.org/hotartcl/cenear/991206/7749spintro2.html)

The pace of change in today's world is truly incomprehensible. Science is advancing on

AND

up in real public fear of genetic manipulation and corporate control over food.

### Solar Links

#### Solar power trades-off with natural gas production.

Moniz et al -11 (Ernest J, Chair, MIT Interdisciplinary Study, 6/09/2011, The Future of Natural Gas http://web.mit.edu/mitei/research/studies/natural-gas-2011.shtml)

The displacement of gas is greater for solar than for wind, since solar production

AND

less-employed, single-cycle gas turbines and steam gas units.

#### Increased solar production tanks natural gas production – causes massive price volatility.

Moniz et al -11 (Ernest J, Chair, MIT Interdisciplinary Study, 6/09/2011, The Future of Natural Gas http://web.mit.edu/mitei/research/studies/natural-gas-2011.shtml)

Although our analysis has been limited to a few alternative scenarios, we can observe

AND

of investment in natural gas generation capacity to ensure system reliability and efficiency.

# UQ

#### Natural gas price down now

Deutch 8/14/12 (John Deutch is a professor at MIT, has served as undersecretary of energy, deputy secretary of defense, and director of the CIA, The U.S. Natural-Gas Boom Will Transform the World, http://online.wsj.com/article/SB10001424052702303343404577514622469426012.html?mod=googlenews\_wsj)

Two summers ago, natural gas cost $4.50 per thousand cubic feet

AND

With such changes happening so fast, it's timely to consider their implications.

#### Increased supply and inventories mean prices will lower now

Hurdle 8/14/12 (Jon Hurdle, AOL Energy, August 14, 2012, What Is Set to Drive Natural Gas Prices Lower?, http://energy.aol.com/2012/08/14/what-is-set-to-drive-natural-gas-prices-lower/)

Prices for natural gas are headed lower after a hot summer showed signs of the

AND

seasonal increase at only 1,477 bcf, the lowest since 1991.

#### Increased production of natural gas is reducing prices now– private sector is key

IER -12 (Institute for Energy Research, April 19, 2012, Abundant Natural Gas Means Low Prices, Increased Trade Potential, http://www.instituteforenergyresearch.org/2012/04/19/abundant-natural-gas-means-low-prices-trade-potential/)

Natural gas production in the United States is hitting unprecedented highs, storage tanks are

AND

of new proposals for the use of abundant, affordable natural gas supplies.

# Grid Advantage

#### No threat to power grids- their studies don’t take into account the laws of physics

Toor 10 (Amar Toor, “Don't Worry, Terrorists Won't Bring Down the U.S. Power Grid, Researchers Say”, http://www.switched.com/2010/10/14/dont-worry-terrorists-wont-bring-down-the-u-s-power-grid-re/, 10/14/10, Accessed 7/13/12, WITASZEK)

Over the past few months, many politicians and national security experts have grown increasingly

AND

least amount of flow -- it would be a massive waste of resources."

#### No impact to terrorists or solar storms- The GRID Act is already securing our grid from these threats

Schewe 10 (Phillip Schewe, ISNS, Phys.org, "Plans to Secure Power Grid From Terrorists, Solar Storms", phys.org/news195752582.html, 6/14/10, Accessed 7/18/12, KW)

Electricity is all around us. It lifts elevators, pumps gas, lights rooms

AND

the better to foil those who would plan terror attacks on the grid.

#### Nearly impossible to black out the power grid- hurricanes, physics prove

Brown 10 )Joshua E. Brown, staff writer at the University of Vermont, “Study: It's Hard to Bring Down the Electric Grid”, http://www.uvm.edu/~uvmpr/?Page=News&storyID=17119, 10/8/10, Accessed 7/14/12)

An important implication of Hines's work, funded by the National Science Foundation, is

AND

says, "to really figure out how to make the grid fail."

# Solvency

## Frontline Extensions

### Ext – Too Expensive

#### Solar power fail --- its too expensive and comparatively worse for energy production than other alternatives.

Japan Times 3. [Aug 14, “Alternative power is set to blow away the old” -- lexis]

Solar power, too, will have a key role in the new energy marketplace

AND

and the hydrogen produced with cheap wind-generated electricity," he says.

#### Solar power isn’t even close to cost effective.

Walker 4. [Cameron, freelance writer on wildlife and conservation biology “The Future of Alternative Energy” National Geographic News Oct 28 -- <http://news.nationalgeographic.com/news/2004/10/1028_041028_alternative_energy.html>]

Technological improvements have made solar-electric modules more cost-effective. In the

AND

according to the U.S. Department of Energy's ***Annual Energy Review.***

#### Solar power is comparatively the most expensive alternate energy source.

Moran 8. [Alan, Director, deregulation at the Institute of Public Affairs, The Age, May 14, lexis]

The fractured push towards solar power is costly and mostly driven by politics, writes

AND

that, on the back of subsidies, are increasingly dotting the landscape.

#### Not cost effective – only 10% as efficient as conventional sources of energy.

Ausubel 7. [Jesse, former member of the National Academy of Sciences and National Academy of Engineering, organizer of the first UN World Climate Conference in Geneva, main author of Changing Climate, “Renewable and Nuclear Heresies” International Journal of Nuclear Governance, Economy and Ecology, Vol 1 No 3 <http://phe.rockefeller.edu/docs/HeresiesFinal.pdf>]

Although negligible as a source of electric power today, photovoltaics also earn a traditional

AND

, but only a few square kilometres have ever been manufactured in total.

### Ext - Single Policies Ineffective

#### Singular alternative energy policies can’t solve energy independence.

San Antonio Express-News 8. [July 1, 2008 “OUR TURN : Real energy policyis urgently needed” – LEXIS]

Sen. John McCain has proposed a $300 million national prize for the development

AND

our national security, depriving unfriendly regimes of petrodollars and lowering energy costs.

#### Solar energy costs too much.

Business Times Singapore 8. [“Managing energy, water resources” July 7 -- lexis]

The three to four decades of improvements in alternative energy have made wind, solar

AND

energy rely on subsidies or other forms of special treatment for their viability.

#### Renewable energy policies fail due to location obstacles.

Wright 8. [Stephen J. Wright Administrator, Bonneville Power Administration United States Department of Energy, CQ Congressional Testimony June 17 – lexis]

It is important to remember that renewable electricity resources differ from coal, natural gas

AND

have not developed where the wind is blowing hard much of the time.

### Ext – Solar = Ineffective

#### Solar panels are ineffective—will be much too large to be practical

Morris -02 (Robert Morris, received PH.D in Chemistry & edu. from Nebraska '68, The Environmental Case for Nuclear Power, 2002, pub: Paragon House 2700 Univ. Avenue West st. Paul, Minnesota 55114, PG-153-4)

 Active solar collection is an entirely different story because it can be used to

AND

plants which have the same capacity usually occupy less than a square mile.

#### Solar power is inefficient and not competitive with nuclear power or oil.

Jean-Paul Renaud, Times Staff Writer. 2004 “The State; Mainstream Warming Up to Solar Power; More institutions are turning to photovoltaic technology in an effort to reap long-term savings. Critics contend it's unreliable.” The Los Angeles Times April 4, 2004

Still, some believe investing in solar technology is not cost-effective. They

AND

has come a long way, but there's still more progress to go."

#### Inefficient solar energy storage is hindering production.

Rowe 07 (Mark Rowe, “Nanotechnology innovations offer new power possibilities”, Petroleum Review, July 2007, Vol. 61, No. 726, pg. 6 , Lexis)

Dr de Mello is targeting two key applications: solar energy and high efficiency lighting

AND

, it will enable a step-change in solar energy production.'

#### Solar energy is unlikey – companies won’t create to expense and lack of land to build them on.

Parker 08 (Charles Parker, Chair, ATAC Committee, ASM International,“Materials for advanced energy generation: new materials are under development to facilitate power generation by non-fossil sources at reasonable cost.”, Advanced Materials & Processes, Volume 166, Issue 1, January 2008. pg. 53)

It is enticing to think that we could reduce combustion of fossil fuel to generate

AND

-up to produce that many solar cells would be even more difficult.

### Incentives Don’t Work

#### Empirically incentives don’t help solar power development – hurdles are too large.

Taylor 6. [Jerry, director of natural resource studies @ Cato, “Corner Extra: Energy Yack, CATO Institute, <http://www.cato.org/pub_display.php?pub_id=5434>]

If those technologies have economic merit, no subsidy is necessary. If they don't, then no subsidy will provide it. Let's look at each of those technologies in turn.

Zero-emission coal-fired power plants are a figment of the imagination.

AND

still too expensive to compete in the market and investors won't touch them.

Wind and solar power has been the recipient of 30 years worth of government largesse, yet neither has been able to gain any significant market share despite the handouts. Apparently, hope springs eternal.

#### Solar power fails no matter how its designed.

Lehr 5. [jay, science director for the heartland institute, heartland intstitute, 6/1/05, <http://www.heartland.org/Article.cfm?artId=17185>]

There are not many people left who believe acres and acres of mirrors following the

AND

only capture about 10 percent of the solar energy that strikes the cells.

### 1NC - Barriers to Solar Power

#### No Solar systems - costs too much, have long payback periods and there is not confidence in them.

Faiers and Neame -06 (Adam Faiersand Charles Neame, Institute of Water and Environment, Cranfield University at Silsoe, Silsoe, Bedfordshire, Energy Policy 34 (2006) 1797–1806, <http://ac.els-cdn.com/S0301421505000121/1-s2.0-S0301421505000121-main.pdf?_tid=423f6c26cae0684> Consumer attitudes towards domestic solar power systems, 720c9c4993db7dab8&acdnat=1345503601\_2928ea95efab771cbeccbd0c70a40194)

However, despite their positive characteristics, solar systems remain unattractive to individual householders as

AND

it will not be competitive with conventionally produced electricity (Luque. 2001).

#### Cumbersome requirements prevent development of customer-owned solar power.

Szaro and Ventre -2K (Florida Solar Energy Center (March 2000). Florida Photovoltaic Buildings Program: Status Report, Observations and Lessons Learned. Cocoa, FL: Florida Solar Energy Center, http://www.fsec.ucf.edu/en/publications/pdf/fsec-cr-1150-01.pdf)

Overcoming Barriers The single greatest barrier to the development of a market for customer-

AND

last ten systems for under SI/ Watt (installation labor costs only).

#### System inertia prevents shift to solar power.

Fuchs and Arentsen -02 (Doris A. Fuchs a, \*, Maarten J. Arentsen b a Ludwig-Maximilians-University, Faculty of International Relations, Oettingenstr, Green electricity in the market place: the policy challenge, Energy Policy 30 (2002) 525–538, http://ac.els-cdn.com/S0301421501001203/1-s2.0-S0301421501001203-main.pdf?\_tid=3524fd97cfe563df4b179d42552a5d56&acdnat=1345504771\_5cbb219d21f7f7f997f738542a489478)

To push renewables as alternatives for current matured generation capacity furthermore tends to neglect the

AND

a renewable base with high quality demands of the central station electricity system.

## Jellyfish

### Solar Panels=Jellyfish

#### **Scientists use jellyfish to produce solar panels because it’s inexpensive and there is a large supply of jellyfish now**

Dillow 10 (Clay, writer and editor for POPSCI, Swedish Researchers Harness Green Goo to Create Solar Cells from Jellyfish, Sept 7 2010, <http://www.popsci.com/science/article/2010-09/swedish-researchers-look-jellyfish-create-solar-cells-green-goo>. Noparstak)

A group of Swedish researchers are looking beyond plants for living models upon which to

AND

from all that extra GFP in the water, more power to them.

#### Jellyfish protein is used to create solar panels.

Scott 10 (Cameron, freelance writer and editor and the author of the blog, The Thin Green Line, Solar Cells Made From Bioluminescent Jellyfish, August 8 2010, <http://inhabitat.com/solar-cells-made-from-bioluminescent-jellyfish/>. Noparstak)

Swedish researchers have devised a way to **turn** bioluminescent **jellyfish into** [solar cells](http://inhabitat.com/solar-power/). It

AND

, but don’t require expensive materials such as [titanium dioxide](http://inhabitat.com/2010/06/21/new-quantum-dot-solar-cells-could-double-efficiency/).

### 2NC Impact—Europe

#### Jellyfish will be the only seafood option for Europe in the coming decades due to fishing quotas

Gray 8 (Louise, environment correspondent for The Telegraph, Jellyfish on the menu as edible fish stocks become extinct, Dec 15 2008, <http://www.telegraph.co.uk/earth/3776788/Jellyfish-on-the-menu-as-edible-fish-stocks-become-extinct.html>. Noparstak)

Fish stocks around Britain have been reduced to 10 per cent of what they were

AND

nations play their part in this difficult job that needs to be undertaken."

#### European fishing industry key to the global economy, international food distribution, and aquaculture

EU 12 (European Unioin, Maritime affairs and fisheries, May 21 2012, <http://europa.eu/pol/fish/index_en.htm>. Noparstak)

The livelihoods of many EU citizens depend on the sea and its resources – fish

AND

the EU celebrates "European Maritime Day" each year on 20 May.

#### Preventing starvation outweighs extinction

LaFollette 3 (Hugh, majored in psychology at Belmont University, former reporter for the Metropolitan Nashville government, PhD from University of Alabama-Birmingham, Chair in Ethics at the University of South Florida St. Petersburg, "World Hunger", edited by Ray Frey and Christopher Heath Wellman, <http://www.hughlafollette.com/papers/World.Hunger.htm>. Noparstak)

The claim that we have a strong obligation to assist the starving takes two broad

AND

that Hardin’s views are wrong, I must first describe the developmental alternative.

### IMPACT

#### Currency Manipulator label wrecks relations – spills over and guts coop on other key issues

Lardy, 10 (Nicholas, Peterson Institute International Economics, 4/1, http://www.piie.com/publications/interviews/pp20100401lardy.pdf)

Nicholas R. Lardy suggests the Obama administration may avoid labeling China a currency “

AND

participate or whether they would send some lower level diplomat to represent them.

### 2NC Asian War Outweighs

#### The impact is the most probable scenario for global nuclear war

Dibb 1. (Paul, Prof – Australian National University, Strategic Trends: Asia at a Crossroads, Naval War College Review, Winter, http://www.nwc.navy.mil/press/Review/2001/Winter/art2-w01.htm)

The areas of maximum danger and instability in the world today are in Asia,

AND

Regional Forum have shown themselves to be ineffective when confronted with major crises.

#### Chinese trade conflicts is the most likely scenario for military conflict.

Landy 7 Ben Landy, Director of Research and Strategy at the Atlantic Media Company, publisher of the Atlantic Monthly, National Journal, and Government Executive magazines, April 3, 2007, <http://chinaredux.com/2007/04/03/protectionism-and-war/#comments>,)

The greatest threat for the 21st century is that these economic flare-ups between

AND

–far more than increases in military budgets and anti-satellite tests.

#### Turns Resource Wars- U.S.-Chinese Relations key to prevent conflicts over oil

Tanner 4. (Travis, Associate Dir – China Studies, Nixon Center, Asia Times, 6-18)

The third factor to be contemplated when analyzing the likelihood of a future US-

AND

the oil industry and the increasingly robust bilateral relationship make this claim unlikely.

#### MANIPULATOR LABEL CAUSES CHINA SELL ITS T-BILLS.

PETRAS 5. [James, former Prof of Sociology @ Binghamton, “Statism or Free Markets?: China Bashing and the Loss of US Competitiveness” Oct 22/23 -- http://www.counterpunch.org/petras10222005.html]

US Treasury Secretary John Snow, driven by the protectionist pressures from a Congress responding

AND

its economic exchanges with Asia, Russia and the rest of the world.

#### TBILLS SELL OFF COLLAPSES THE DOLLAR.

BOTT 5 [Uwe, President and CEO of Cross-Border Finance, The Globalist, 5-6, http://www.theglobalist.com/StoryId.aspx?StoryId=4539]

Instead of piling up low-yielding U.S. treasury bonds, the

AND

an accelerating pace — only to put further downward pressure on the dollar.

#### THAT COLLAPSES THE GLOBAL ECONOMY.

Washington Post, 11/17/04

Foreign traders and investors sell dollars on foreign exchange markets. The dollar declines in

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that export to them. Markets interconnect; weakness spreads. It's grim.

### AT October Suprise

#### They Say HC October Surprise

#### Thumpers don’t really matter- prefer our robust forecasting models from Silver- only the plan would structurally change the election, not tiny scandals

Silver 9/9/2012 (Nate, Genius, writer for FiveThirtyEight, now under the New York Times, The blog is devoted to rigorous analysis of politics, polling, public affairs, sports, science and culture, largely through statistical means, Sept. 9: Call It as You See It, http://fivethirtyeight.blogs.nytimes.com/2012/09/10/sept-9-call-it-as-you-see-it/#more-34347)

Finally, keep in mind that our forecasts normally are pretty stable. More often

AND

. (Although he gained ground among Ipsos’s broader sample of registered voters).

### LINK DEBATE

#### **Obama’s renewable push is bashing Romney on jobs – the most important election issue**

The Hill, July 31st [2012, Obama campaign hits Romney over wind energy tax credit, <http://thehill.com/blogs/e2-wire/e2-wire/241195-obama-campaign-hits-romney-on-wind-energy-credit->]

President Obama’s campaign is bashing Mitt Romney for the presumptive GOP nominee’s view that tax

AND

governor says federal green energy efforts should be focused on research and development.

#### Renewable support for Obama will target swing voters

Northwest Herald, May 24th [2012, Obama to campaign in Iowa, promote energy plan, <http://www.nwherald.com/2012/05/24/obama-to-campaign-in-iowa-promote-energy-plan/ariqolq/?page=2>]

Obama will hold a grass-roots campaign event at the fairgrounds Thursday evening.

AND

has pushed previously, aiming to help manufacturers, strapped homeowners and veterans.

#### **Obama’s energy policy is being labeled as a job killer – it is being used as political ammunition**

Bloomberg News, May 5th [2012, <http://www.businessweek.com/news/2012-05-04/new-keystone-bid-gives-gop-political-ammunition>, New Keystone Bid Gives GOP Political ’Ammunition’]

TransCanada Corp. (TRP) has reapplied to build the Keystone XL oil pipeline

AND

effort to push the pipeline through that could then land them in court.”.

#### Solyndra has created a strong negative perception of investment in solar

Randazzo, ’12 INCENTIVES AT EVERY TURN By Ryan Randazzo, Posted 5/6/2012 The Arizona Republic http://www.usatoday.com/USCP/PNI/Business/2012-05-06-PNI0506biz-subsidiesPNIBrd\_ST\_U.htm

Public money supports the development of nearly every form of energy -- a point not

AND

say nothing but the market and the lowest price should drive energy policy.

### At Link Turn

#### RE subsidies have lost popular support—multiple reasons

#### Ball, Scholar in Residence at Stanford University's Steyer-Taylor Center for Energy Policy and Finance, ’12

Foreign Affairs¶ May 2012 - June 2012¶ Tough Love for Renewable Energy Subtitle: Making Wind and Solar Power Affordable¶ BYLINE: Jeffrey Ball. ¶ JEFFREY BALL is Scholar in Residence at Stanford University's Steyer-Taylor Center for Energy Policy and Finance. Previously wrote about energy and the environment for The WSJ, where he spent 14 years as a reporter, columnist, and editor, most recently as Environment Editor.¶ SECTION: Pg. 122 Vol. 91 No. 3

Over the past decade, governments around the world threw money at renewable power.

AND

has been sloppy, failing to derive the most bang for the buck.

#### Energy is one of the most important issues for the election – Public notices contradictions with Obama’s policies

Russel, April 23rd [2012, Barry Russell is president and CEO of the Independent Petroleum Association of America, Obama's Energy Strategy of Contradiction, Lexis]

Right now, voters across the country are mobilizing around an issue that could determine

AND

question: Can Obama have his energy cake and eat it, too?

### Obama Win 2NC

#### Prefer our evidence- it captures the convention bounce and best reflects consensus of data- their evidence is distorted to fit a narrative

Silver 9/14/2012 (Nate, Genius and undisputed king of uniqueness evidence, writer for FiveThirtyEight, now under the New York Times, The blog is devoted to rigorous analysis of politics, polling, public affairs, sports, science and culture, largely through statistical means, Sept. 13: After Convention Bounce, Holding Obama’s Polls to a Higher Standard, http://fivethirtyeight.blogs.nytimes.com/)

On Thursday at 6:30 p.m. Eastern time, there was

AND

may simply mean the conventional wisdom was a little slow to catch up.

#### Electoral math means Obama will win now

Washington Post 9/12/2012 (President Obama’s electoral college edge, http://www.washingtonpost.com/blogs/the-fix/wp/2012/09/12/president-obamas-electoral-college-edge/)

President Obama maintains an edge in the race for 270 electoral college votes, according

AND

-state electoral votes, giving him 313 — and a second term.

#### U Controls direction of DA becauase Obama solve your aff

#### Obama win is critical to clean energy transition – Romney will only support oil and gas.

Taylor 8/23/12 (Heather Taylor, director of the Natural Resources Defense Council's Action Fund, Innovation or More of the Same?, AUGUST 23, 2012, http://energy.nationaljournal.com/2012/08/sizing-up-romney-and-obama-ene.php)

Mitt Romney released his energy plan in New Mexico on Thursday, and while it

AND

cuts clean energy investments 90 percent, down to just $1 billion.

#### Obama does solar

Karpinski 8/22/12 (Gene Karpinski, President, League of Conservation Voters, The Choice Couldn’t Be More Clear, AUGUST 22, 2012, http://energy.nationaljournal.com/2012/08/sizing-up-romney-and-obama-ene.php)

President Obama believes in a different course, and is putting America in charge of

AND

America’s economy, while Mitt Romney is in the tank for Big Oil.

### Ohio

#### Obama’s ahead in key states- Ohio, Florida, Virginia, Colorado

Reuters 9/10/2012 (Obama expands lead, Romney still in striking distance, http://www.reuters.com/article/2012/09/10/us-usa-campaign-idUSBRE8891DI20120910)

AUTO INDUSTRY BAILOUT¶ Democrats have been heartened by Obama's steady lead in Ohio,

AND

Colorado, where improving local economies and shifting demographics have helped his cause.

#### Ohio Not key

Sabato, 12 (Larry, UVA Center For Politics, 4/26, <http://www.centerforpolitics.org/crystalball/articles/plan-of-attack-obama-romney-and-the-electoral-college/>)

Would winning Ohio guarantee the presidency for Romney? Not necessarily. Richard Nixon won

AND

a considerably larger share of its 2008 votes than did Florida or Ohio.