**1AC**

**Plan Text**

**Plan Text: The United States federal government should substantially increase its fiscal investment in pipeline infrastructure for carbon dioxide capture and storage systems the United States.**

**Contention One: The environment (1:27)**

**Warming is real and caused by human emissions, broad analysis of all studies flow aff**

**Muller 7/28/12** (Richard A Muller, [Richard A. Muller](http://muller.lbl.gov/), a professor of physics at the University of California, Berkeley, and a former MacArthur Foundation fellow, is the author, most recently, of “Energy for Future Presidents: The Science Behind the Headlines.”, “The Conversion of a Climate Change Skeptic” <http://www.nytimes.com/2012/07/30/opinion/the-conversion-of-a-climate-change-skeptic.html?_r=1&pagewanted=all>, accessed 11/26/12, KR)

CALL me a converted skeptic. Three years

AND

skepticism about them hasn’t changed

**We’re at 396 ppm, reducing emissions now is key to not passing the tipping point. We have no other choice but to begin now.**

**Walsh 12** (July 10th, 2012. Time magazine, Bryan Walsh Is a senior editor for TIME International and the environment writer for TIME magazine. Published New York, New York 2012. Managing editor: Richard Stengel. “Global Warming, The Causes, The Perils, The Solutions”

Everyone knows that we need to

AND

**In other words, we have no choice.**

**In the status quo 85% percent of the world lives in a developing country, who are most affected by climate change. The US is one of the largest emitters but has failed to take action- we have an ethical obligation to reduce emissions**

**Gordon 7 – Professor of Law at Villanova University**

**(Ruth, “THE CLIMATE OF ENVIRONMENTAL JUSTICE: TAKING STOCK: CLIMATE CHANGE AND THE POOREST NATIONS: FURTHER REFLECTIONS ON GLOBAL INEQUALITY, 78 U. Colo. L. Rev. 1559, lexis, dml)**

Sadly, this paper ends where it

AND

**what will be a much warmer world.**

**Unfortunately, coal is inevitable in the status quo and responsible for the majority of carbon emissions. No other energy source has been able to meet energy demand.**

**Richard K. Morse 2012**– leads research in global coal markets and global carbon markets at the Stanford Program on Energy and Sustainable Development, BA in philosophy from Rice University, has worked in commodities markets for oil and natural gas as an energy analyst and in markets for renewable energy and emissions as an energy trader(“Cleaning Up Coal,” Foreign Affairs, Jul/Aug2012, Vol. 91, Issue 4, Academic Search Premier)  
Coal, the rock that fueled

AND

in the fight against global warming.

**This means 2 things**

**One: Ocean acidification means 70% of the earth is uninhabitable. CO2 increases ocean acidification and destroys the food chain.**

**The Guardian 11** (news source citing Condon from Virginia Institute of Marine Science, National Academy of Sciences, Turley from Plymouth University's Marine Laboratory, University of British Columbia, “Explosion in jellyfish numbers may lead to ecological disaster, warn scientists”, June 11, 2011, http://www.guardian.co.uk/environment/2011/jun/12/jellyfish-plankton-ocean-acid)

**Global warming has long**

**AND**

**expanding their number**.

**We have a moral obligation to preserve species**

John **Kucinich**, Judge Advocate specializing in environmental law, ENVIRONMENTAL LAW REVIEW, Spring 19**94**, p. 501.

Finally, and least pragmatic, is

**AND**

**down for their enjoyment.**

**Current warming means there won’t be an adaption: specific to biodiversity in marine systems**

**Watts 9/4/12** (Anthony Watts September 4th, 2012, meteorologist, Purdue university, cites studies done by University of York, National Academy of Sciences, Department of Biology of York, University of Glasgow, University of Leeds, http://wattsupwiththat.com/2012/09/04/warming-increases-biodiversity-except-when-it-doesnt, Watts up with that? “warming increases biodiversity, except when it doesn’t” aceses 11/26/12, KR)

From the [University of York](http://www.york.ac.uk/)

AND

**we expect extinctions to occur.”**

**We solve for emissions- CCS in biofuel companies leads to a net decrease in atmospheric CO2**

Manya **Ranjan 10** (Bachelor of Technology, Chemical Engineering from Indian Institute of Technology Delhi, Master of Technology, Process Engineering and Design from Indian Institute of Technology Delhi, Submitted to the Engineering Systems Division in partial fulfillment of the requirements for the degree of Master of Science in Technology and Policy at the Massachusetts Institute of Technology June, “Feasibility of Air Capture”, section 4 “4. Air Capture via Biomass with Carbon Capture and Sequestration”, pg 50-51, <http://sequestration.mit.edu/pdf/ManyaRanjan_Thesis_June2010.pdf>, JZ)

**CO2 could also be**

**AND**

report with those reported above.

**CCS key- MOFs and new storage method means cheaper, more efficient way to solve safely**

Matt **Barrage 11** (University of Pittsburgh, Swanson School of Engineering, “CARBON CAPTURE AND SEQUESTRATION: THE ETHICS AND TECHNOLOGY BEHIND THE STRUGGLE”, October 4, 2011, <http://www.pitt.edu/~mtb43/WritingAssignment.pdf>, JZ)

A WORLD SIZED DILEMMA:

The matter of fact is that

**AND**

whether or not it’s safe for the environment

**Water is a human right - water scarcity causes a loss in value to life and dehumanization**

**Environment News Service, 10**

(7/29/10, Environment News Service, “UN recognizes Access to Clean Water as a Human Right”, <http://www.ens-newswire.com/ens/jul2010/2010-07-29-01.html>, accessed 7/7/12, KR)

NEW YORK, New York, July 29, 2010 (ENS) - [**Access**](http://www.ens-newswire.com/ens/jul2010/2010-07-29-01.html) **to clean, safe**

**AND**

and sanitation-related diseases.

**We solve for safe fracking- CCS leads to greater natural gas mining on a safer scale: trades off with fracking**

**McKenna 12** (Phil McKenna, correspondent at MIT Technology review, new Scientist. Education form the Massachusetts institute of technology and Lawrence university, August 31 2012, NewScientist, Environment, “Fracking could be combined with carbon capture plants”, <http://www.newscientist.com/article/dn22232-fracking-could-be-combined-with-carbon-capture-plans.html>, acessed January 28, 2013, KR)

Talk about a win-win situation

AND

**by opening up fractures.**

**Independently solves warming- CCS works on natural gas also**

**CATF 12** (Clean Air Task Force, nonprofit organization dedicated to reducing atmospheric pollution through research, advocacy and private sector collaboration. 2012. “Natural Gas with Carbon Capture (CCUS)” <http://www.fossiltransition.org/pages/_copy_of__natural_gas_w_ccs/182.php> accessed 1/31/12, KR)

Natural Gas with Carbon Capture (CCUS)¶ **¶ [Natural gas with carbon capture](http://www.fossiltransition.org/pages/natural_gas_with_ccs/89.php" \t "_blank) uses**

**AND**

**gas CCS costs down.**

**Contention Two: Solvency (1:22)**

**Empirics prove- CCS storage is technologically feasible**

**Dooley and Davidson 10**– leader of the Joint Global Change Research Institute's and the Global Energy Technology Strategy Project's research related to carbon dioxide capture and storage and senior member of the Joint Global Change Research Institute's Integrated Assessment modeling team; Senior Research Scientist. Pacific Northwest National Laboratory, Richland, Washington (JJ and CL, “A Brief Technical Critique of Ehlig-Economides and Economides 2010: ‘Sequestering Carbon Dioxide in a Closed Underground Volume’” US Department of Energy April 2010 <http://www.pnl.gov/main/publications/external/technical_reports/PNNL-19249.pdf>) MLR  
  
The technical feasibility of storing

AND

benefits and challenges associated with CCS.

**Carbon capture is tested and feasible, it’s the most economically viable and prevents pollutants from being put in the air.**

**Anthony et. al '10**[May 2010, Lauren Anthony, Brendon Baatz, Nicholas Bahnken, McKenzie Beverage, Jie Cui, Rose Galer, Devin Hartmaan, Colin Highlands, Howon Kang, Jacob Keating, Meghan Keefer, Kyungwoo Kim, Ashleigh Klingman, Keum Hoo Lee, Katie Mauldin, Richy Palmer, Laura Paradise, Arif Sayik, Burak Uyan, Kelly Wedell, Hasan Qildirin, Ibrahim Yigit, Yonghua Zou are top scholars from multiple disciplines to conduct innovative, timely and relevant research in the broad area of energy, focusing specifically on: • Advanced fossil fuels and nuclear power; • Alternative or renewable energy resources; • Local and regional carbon cycle dynamics; • Environmental and economic consequences of energy production and distribution assembled under the Center for Research in Energy and the Environment of Indiana University, "Carbon Capture and Storage",<http://www.indiana.edu/~cree/pdf/2010%20V600%20Capstone%20Report%20on%20Carbon%20Capture%20and%20Storage.pdf>]  
  
**Removing CO2 from a pre-combustion**

**AND**

**and volatile mercury**

**Only the plan is modeled – China, India, Brazil, and other countries won’t cut emissions unless they can avoid economic cost**

**Apt et al 7** – PhD in Physics @ MIT, Professor of Technology, Tepper School of Business and Engineering and Public Policy  
Jay, “Incentives for Near-Term Carbon Dioxide Geological Sequestration,” Carnegie Mellon,<http://wpweb2.tepper.cmu.edu/ceic/pdfs_other/Incentives_for_Near-Term_Carbon_Dioxide_Geological_Sequestration.pdf>  
The Intergovernmental Panel on Climate Change (IPCC) Fourth Assessment Report

AND

of greenhouse gases in the 2005 U.S. economy are shown in figure 28 below.

**And not only major countries will cut emissions. Developing countries will follow when CCS is proven**

**Global CCS Institute 12***(“Funding Carbon Capture and Storage in Developing Countries,”*[*http://cdn.globalccsinstitute.com/sites/default/files/publications/37906/fundingccsindevelopingcountriesfinal.pdf*](http://cdn.globalccsinstitute.com/sites/default/files/publications/37906/fundingccsindevelopingcountriesfinal.pdf)*)*  
**Given the significant, but manageable**

**AND**

, such as earnings from CCS technology exports”

**Pipelines are the missing link – a national network is needed**

**IRGC 8** - International Risk Governance Council, “Regulation of Carbon Capture and Storage,” <http://www.irgc.org/IMG/pdf/Policy_Brief_CCS.pdf>

**Large-scale CCS deployment**

**AND**

organisational structure of the CCS industry

**Any Spills or leaks are harmless**

**Saundry 12** (Dr. Peter Saundry, National Council for Science and the Enviroment, Ph.D in Physics from the University of Southern California, a M.S from Adelphi University and a B.S in Physics form Southhampton University, U.k., August 21, 2012, The Encyclopedia of Earth, CO2 Management, published September 10, 2011, edited august 21, 2012, “Pipelines for Carbon Dioxide Control in the United States”, <http://www.eoearth.org/article/Pipelines_for_Carbon_Dioxide_Control_in_the_United_States?topic=54490>, accessed 1/4/12 KR)

**The Secretary of Transportation has**

**AND**

CO2pipeline accidents are likely in the future.[[46]](http://www.eoearth.org/article/Pipelines_for_Carbon_Dioxide_Control_in_the_United_States?topic=54490#endnote_46)

**Contention Three: Framework (1:38)**

**Status quo oppression is a militaristic war on the suffering – reject the desire to revert to the status quo in the face of wildly constructed threats in favor of including the narratives of the oppressed**

**Cuomo 96 –** Associate Professor of Philosophy and Women's Studies @ Univ of Cincinnati

(Chris, “War is Not Just an Event: Reflections on the Significance of Everyday Violence,” Hypatia, Vol. 11, No. 4, Women and Violence (Autumn, 1996), pp. 30-45, dml)

**Theory that does not investigate** or

AND

the "war on crime," and other state-funded militaristic campaigns.

**And, absent a mindset shift towards peace and empathy, a mentality of pure war will overcome us, negating value to life and making extinction inevitable**

**Borg 3** – co-founder and executive director of the Community Consulting Group

(Mark, “Psychoanalytic Pure War: Interactions with the Post-Apocalyptic Unconscious,” Journal for the Psychoanalysis of Culture and Society, Volume 8, Number 1, Spring 2003, pp. 57-67, dml)

Virilio and Lotringer gave the name “pure war”

AND

**have the means of recognizing it**” (42).

**And, adopting a framework of empathy makes war impossible**

**Dews 7 -**professor of philosophy at the University of Essex

(Peter, “The Idea of Evil,” Blackwell Publishing LTD, 2007)

The face, then, is not an object, but the

AND

murderous in its very exercise.

**And, we have an obligation to assist the helpless Other even in the face of extinction**

**Jovanovic and Wood 4 – \***Communications/Rhetoric Professors @ Denver University and University of North Carolina respectively

(Spoma and Roy, “Speaking from the Bedrock of Ethics,” Philosophy and Rhetoric Vol 37 no 4, 2004, 317-334, dml)

On September 11, 2001, terrorism

AND

going anywhere in the heart of an inferno.

**CCS most ethical- ensures environment is not destroyed**

Amanda **Ward 11** (University of Pittsburgh, Swanson School of Engineering, “CARBON SEQUESTRATION: A STEP TOWARDS A CLEANER FUTURE, November 1, 2012, <http://www.pitt.edu/~ajw77/Writing3.pdf>, JZ)

IS CARBON SEQUESTRATION AN ETHICAL OPTION? “In the U.S. alone, **CO2 emissions from just coal-fired power**

**AND**

process holds in the freshman engineering curriculum.