Contention 1 is Inherency-

**Sps is drastically underfunded-this kills effectiveness.**

**Hamilton, 2007 (Tyler, “Space-based solar power back in play,” Oct. 15, The Toronto Star, lexis)**

High oil prices, energy security... power back to Earth. Seriously.

**The US is making overtures to China on cooperation, but hasn’t followed through with action**

**Wolf,** Defense Technology Correspondent at Reuters, **2011**

(Jim, “Analysis: Space: a frontier too far for U.S.-China cooperation”, Reuters, HYPERLINK "http://www.reuters.com/article/2011/01/02/us-china-usa-space-idUSTRE7010E520110102" http://www.reuters.com/article/2011/01/02/us-china-usa-space-idUSTRE7010E520110102, January 2, Accessed July 3, 2011, NS)

**Obama and Hu**, in a ... **transparency, reciprocity and mutual benefit."**

**Plan Text: The USFG, in cooperation with China, should develop and deploy space based solar power satellites.**

**Contention 1: Warming**

Warming is real and caused by humans

**Dessler, ’10**, Andrew Dessler, professor of atmospheric sciences, Texas A&M University; Katharine Hayhoe, research associate professor of atmospheric sciences, Texas Tech University; Charles Jackson, research scientist, Institute for Geophysics, The University of Texas at Austin; Gerald North, distinguished professor of atmospheric sciences, Texas A&M University; André Droxler, professor of earth science and director of the Center for the Study of Environment and Society, Rice University; and Rong Fu, professor, Jackson School of Geosciences, The University of Texas at Austin, March 6, 2010, (Chronicle, On Global Warming, the science is solid, HYPERLINK "http://www.chron.com/disp/story.mpl/editorial/outlook/6900556.html" http://www.chron.com/disp/story.mpl/editorial/outlook/6900556.html)

In recent months, e-mails stolen ... validity of climate change science. T

**We will hit the brink by 2030**

**Stein 6/26/2011 ((Science editor for the magazine the Canadian)**  HYPERLINK "http://www.agoracosmopolitan.com/home/Frontpage/2007/02/26/01381.html" **http://www.agoracosmopolitan.com/home/Frontpage/2007/02/26/01381.html) ja**

Given time lags of 30-50...very near extinction of humanity. "

**Independently, warming is the only existential risk.**

**Deibel ’07—Prof IR @ National War College (Terry, “Foreign Affairs Strategy: Logic for American Statecraft,” Conclusion: American Foreign Affairs Strategy Today)**

Finally, there is one major...the future, demands urgent action.

**Warming causes the Earth’s core to overheat-makes the world go death star.**

**Dr. Tom J. Chalko, MS, Engineering & PhD, Laser Holography, “Global Warming: Can Earth Explode?” 2002,**  HYPERLINK "http://www.bioresonant.com/news.htm" **http://www.bioresonant.com/news.htm.**

The real danger for our ... from overheating the planetary interior.

Solar Powered Satellites are key to avoid warming’s “tipping point” of the worst impacts

Dr. Feng **Hsu, 10**, Sr. Vice President Systems Engineering & Risk Management Space Energy Group, Winter 2010, (Online Journal of Space Communication, Harnessing the Sun: Embarking on Humanity's Next Giant Leap, HYPERLINK "http://spacejournal.ohio.edu/issue16/hsu.html" http://spacejournal.ohio.edu/issue16/hsu.html)

It has become increasingly evident... of view of scientists and engineers.

**CONTENTION 2: ENERGY**

**SBSP technology creates energy independence.**

**NSS ‘7 [National Space Society, October, “Space Solar Power—Limitless clean energy from space”,**  HYPERLINK "http://www.nss.org/settlement/ssp/index.htm" **http://www.nss.org/settlement/ssp/index.htm, DeFilippis]**

The United States and the... the right direction, but solve.

**Dependence of oil drives up prices of consumer goods, prolongs the recession as well as increase terrorist activity.**

**Major Brian R. Stuart, USAF (April 2007. “Oil and Security Don’t Mix: Why the US can’t Ignore Dependency” pg 1-2)**

The issue of United States (US) dependence on foreign oil impacts most Americans.

**Increased terrorist activity will lead to extinction**

**Jennifer Viegas, Discovery News Reporter November 11, 2009 (Discovery News: “Human Extinction: How Could it Happen?”**  HYPERLINK "http://news.discovery.com/human/human-extinction-doomsday.html" **http://news.discovery.com/human/human-extinction-doomsday.html)**

Humans could become extinct, a ... not, by people in power.

**SSP solves oil dependence, independently, the impact is great power war and prevents oil shocks.**

**NSSO, 2007, SBSP Study Group, 2007, 10 October 2007, (National Security Space Office, Space-Based Solar Power, As an Opportunity for Strategic Security, Phase 0 Architecture Feasibility Study,**  HYPERLINK "http://www.acq.osd.mil/nsso/solar/SBSPInterimAssesment0.1.pdf" **http://www.acq.osd.mil/nsso/solar/SBSPInterimAssesment0.1.pdf)**

Overall, SBSP offers a hopeful ... fossil and fissile fuel dependence.

**Oil shocks ensure extinction.**

**Richard Heinberg, core faculty member at New College of California, The Party’s Over: Oil, War and the Fate of Industrial Societies, 2003, p. 230**

Today the average US citizen... US citizens use per capita.

**CONTENTION 3: China relations**

**Space is a key to relations**

**Richburg, Washington Post, 11**

(Keith B. 1-22-11, Washington Post: “Mistrust stalls U.S.-China space cooperation”, HYPERLINK "http://www.washingtonpost.com/wp-dyn/content/article/2011/01/21/AR2011012104480.html" http://www.washingtonpost.com/wp-dyn/content/article/2011/01/21/AR2011012104480.html, MLF, accessed 7-1-11)

BEIJING - China's grand ambitions extend literally... moon within the next decade.

**China is willing to work with the US on clean energy to solve warming and US-Sino relations - this is the president of China**

**Jianto, 11**

Hu Jianto Jan 16, 11, speaking at a US-China clean energy cooperation conference. HYPERLINK "https://docs.google.com/viewer?a=v&pid=gmail&attid=0.1&thid=133ae0fd7815e09f&mt=application/pdf&url=https://mail.google.com/mail/?ui%3D2%26ik%3D0239245e2e%26view%3Datt%26th%3D133ae0fd7815e09f%26attid%3D0.1%26disp%3Dsafe%26realattid%3Dd5fbd84e395d8c43\_0.1.1%26zw&sig=AHIEtbTHJoU0i1F2i\_s\_tDZKuqokxkwHPQ&pli=1" https://docs.google.com/viewer?a=v&pid=gmail&attid=0.1&thid=133ae0fd7815e09f&mt=application/pdf&url=https://mail.google.com/mail/?ui%3D2%26ik%3D0239245e2e%26view%3Datt%26th%3D133ae0fd7815e09f%26attid%3D0.1%26disp%3Dsafe%26realattid%3Dd5fbd84e395d8c43\_0.1.1%26zw&sig=AHIEtbTHJoU0i1F2i\_s\_tDZKuqokxkwHPQ&pli=1

The US and China are... producers and big energy consumers.

**Cooperation can be beneficial for the US too. Cooperation can solve political tensions, scientific research, space risks, and Budgeting problems,**

**Zhou,** Center for Space and applied Sciences, **8**

(Yi – Chinese Academy of the Sciences and Professor at George Washington University, Perspectives on Sino-US cooperation in civil space programs, Science Direct, Space Policy 24 (2008) 132-139) AC

On the other hand, some ... should be given greater consideration

**Having peaceful and cooperative dialogue in regards to space fosters good US-Sino relations that solve extinction**

**Hays, retired Airforce Lieutenant Colonel, 9**

(Peter L., senior policy analyst supporting the plans and programs division of the National Security Space Office “Space and Sino-American Security Relations” HYPERLINK "http://web.mac.com/rharrison5/Eisenhower\_Center\_for\_Space\_and\_Defense\_Studies/Journal\_Vol\_2\_No\_3\_files/Space%20and%20Defense%202\_3.pdf" http://web.mac.com/rharrison5/Eisenhower\_Center\_for\_Space\_and\_Defense\_Studies/Journal\_Vol\_2\_No\_3\_files/Space%20and%20Defense%202\_3.pdf SPACE and DEFENSE Volume Two Number Three Winter 2009 accessed: 6/28/11 pg 18) TJL

Addressing four issue areas can ... transparency- and confidence-building measures (TCBMs).

**CONTENTION 4: DESALINATION**

Water is running out- 1 in 6 people does not have access to safe drinking water

**World Water Council, 2010** HYPERLINK "http://www.worldwatercouncil.org/index.php?id=25" http://www.worldwatercouncil.org/index.php?id=25

While the world's population tripled... water resources has grown six-fold.

**Water Supply is Crucial**

**World Water Council, 2010** HYPERLINK "http://www.worldwatercouncil.org/index.php?id=25" http://www.worldwatercouncil.org/index.php?id=25

Water should be recognized as a great priority.

**SPS solves water shortages, the brink is now.**

W. Kent **Tobiska, ’10**, President and Chief Scientist Space Environment Technologies, Winter 2010, (Online Journal of Space Communication, Vision for Producing Fresh Water Using Space Power, Issue No. 16: Solar Power Satellites, HYPERLINK "http://spacejournal.ohio.edu/issue16/tobiska.html" http://spacejournal.ohio.edu/issue16/tobiska.html)

An escalating climate crisis is defense, drainage, and irrigation systems.

**China has funds specifically for renewable energy de-sal and projects are being established. Solves spending**

**Peng, 11**

Jennie Peng is consulting analyst in the Frost & Sullivan Environment (Water) Practice based in Beijing HYPERLINK "http://www.waterworld.com/index/display/article-display/2959720320/articles/water-wastewater-international/volume-25/issue-6/regional-spotlight-asia-pacific/market-report-developing-desalination.html" http://www.waterworld.com/index/display/article-display/2959720320/articles/water-wastewater-international/volume-25/issue-6/regional-spotlight-asia-pacific/market-report-developing-desalination.html WaterWorld Oct 2011 Market Report: Developing Desalination in China

The National Development and Reform... sector for the 12th Five-Year-Plan.

**Water Solves laundry list**

**Harvard Science** 10/30/**11** HYPERLINK "http://news.harvard.edu/gazette/?p=94218&utm\_source=SilverpopMailing&utm\_medium=email&utm\_campaign=10\_27\_11%2520(1)&utm\_content" http://news.harvard.edu/gazette/?p=94218&utm\_source=SilverpopMailing&utm\_medium=email&utm\_campaign=10\_27\_11%2520(1)&utm\_content=

As John Briscoe tells the... agricultural crisis in the 1960s.

**Water Solves Tensions and Regional, National, and International Instability**

 World Water Council, 2010 HYPERLINK "http://www.worldwatercouncil.org/index.php?id=25" http://www.worldwatercouncil.org/index.php?id=25

As the resource is becoming... the national and international level.

**SOLVENCY:**

**Cooperation with China is the only realistic option for SPS, ensures solvency**

**Cox, 11**

The Race for Space-Solar EnergySaturday 30 April 2011 by: William John Cox, Truthout | Op-Ed HYPERLINK "http://truthout.org/race-space-solar-energy/1304186557#.TsJ5ds8i89Y.gmail" http://truthout.org/race-space-solar-energy/1304186557#.TsJ5ds8i89Y.gmail prosecutor and public interest lawyer, author and political activist

The failures of the General Electric... methods pose to human society.

**SPSB is key to solving the current energy deficit solving all scenarios for threats to national security and economic recession.**

**National Security Space Office, October 10, 2007 (“Space-Based Solar Power As an Opportunity for Strategic Security” pg 1)**

The magnitude of the looming ... States almost 40 years ago.

**Space solar power will access much more energy than any other alternative energy source, and would solve global warming.**

**National Space Society 2011 (June 3, 2011, “Space Solar Power: Limitless clean energy from space”,**  HYPERLINK "http://www.nss.org/settlement/ssp/" **http://www.nss.org/settlement/ssp/)**

The United States and the world need to find new sources of clean energy.