

2AC:

NEG says...

Tag line of one of NEG's claim. Give a brief overview of NEG'S claim.

In argument # _____, the negative team claims that adopting the resolution is too expensive.

Counterargument

Tag line of your counterargument to NEG'S claim

BENEFITS OUTWEIGH EXPENSE

Claim

Provide full counterargument claim against NEG'S claim.

While it will be expensive to establish a sustained human presence on Mars, the cost is worth it. The chemicals and metals are necessary and urgent.

Evidence

Provide cited evidence and an explanation of how that evidence shows that the problem exists.

- The American Physical Society predicts that a shortage of energy-critical elements " could significantly inhibit the adoption of otherwise game-changing energy technologies." If the United States does not travel to Mars to mine these necessary chemicals and metals, it runs the risk of significant economic losses to its energy technology businesses.*
- According to the US Department of Energy, clean energy technologies take up about 20% of the critical elements in use today.² As more clean energy technologies are adopted to prevent global warming in future decades, the need for critical elements to produce them will increase as well. Because of global warming, more and more people must use clean technology, which requires that we have these critical elements. If we don't go to Mars to mine these elements, we are actually harming our environment.*

¹ APS Panel on Public Affairs & The Materials Research Society, Securing Materials for Emerging Technologies. February 2011, accessed at <http://www.aps.org/policy/reports/popareports/loader.cfm?csModule=security/getfile&PageID=236337>

² US Dept. of Energy. (2010, December) Critical Materials Strategy. Retrieved October 9, 2011, from U.S. Department of Energy: http://files.eesi.org/doe_materials_12010.pdf. Page 6.