all vehicles to electric, the electricity required to run those vehicles would still be producing a such as vehicles, still rely on energy to function, meaning that even if China were able to transfer power sources, the global effects can be severe. Even China's non-manufacturing emissions produce the things people use every day, and if the energy used is created by non-renewable carbon footprint do we make manufacturing clean? (ChinaPower). Manufacturing uses huge amounts of energy to emitter, China's main source of emissions is in manufacturing, which presents the problem: how emissions as well as their effect on global health (UCSUSA). In addition to being the top carbon all carbon emissions, which is why I would go to China to address the problems of carbon Of all the countries in the world, China is the top carbon emitter. In fact, it emits 28% of

that is both renewable and safe for the people who live around it a healthier and more environmentally friendly country, China will have to find an energy source harm the brain, as well as cause asthma and breathing disorders (UCSUSA). Therefore, to pursue pollutants released by coal-fired power plants can also affect learning, memory, behavior, and pollutants," which can cause health problems such as heart and lung diseases (Tox Town). Some majority of China's energy is produced by coal-fired power plants, a pattern which is expected to continue through 2040 (IEA). These coal-fired power plants can produce "hazardous ai This carbon footprint presents a problem to global health, particularly because the

options that seem most likely to work are tidal power plants and solar panel roads. The Chinese solutions, so as to be sure that we can overcome climate change and all of its effects. The two To find a way to create this clean renewable energy, it is important to research multiple would leave 8952-8939 miles of undisturbed coastline of action would be to invest in researching tidal power plants, then build 8-10 of them, which However, the importance of pursuing multiple options should be kept in mind, so the best course This still leaves 8890 miles of coastline to be used for marine life, fishing, and other purposes be able to run China. Therefore, 119 miles of Chinese water would be taken up with tidal power. continue to increase before they can be reduced, so I would estimate 17 tidal power plants would necessary to power all of China last year; however, it is to be expected that power needs will terawatt hours, also known as TWh, of electricity (Ocean Energy Council). Last year, in 2018, miles of water to produce enough energy, and each plant could produce an estimated 450 coastline stretches for 14,500 kilometers, or 9009.8 miles (Baker). The water is affected every China used 6840 TWh (Statista). This means that 15.2'tidal power plants would have been energy created by tides (National Geographic). Each tidal power plant requires at least 7 square day by tides, just like it is across the globe, and tidal power is a way to take advantage of the

of energy production is especially relevant for China, because of the 813.47 million people living maximize space and produce energy where previously there were only cars (Bradsher). This type meter and produce \$15 of electricity per meter. In addition to this cost, they would need to be in urban areas in 2017, about 1.4 times the amount of people living in rural areas. This number roads do not produce as much energy as regular solar panels can, they provide a way to repaired more often than pavement, but would pay for itself within 15 years. Although solar believe it is important that this continues to happen. Currently, solar roads cost \$120 per square energy, is solar panel paved roads. Solar roads have begun to be installed around China, and I The other energy option that would reduce or completely dissolve use of non-renewable

could help save the land, air quality, health of its people (Smith). renewable energy back in 2017, and would most likely be willing to invest in an option that then be used to replace coal produced energy and therefore reduce harmful pollutants in the air no real-estate space, solar roads are one of the best options to create renewable energy that can and more expensive to use solar farms to produce energy (Huifeng). Because solar roads take up has increased steadily since 2007 and means that as China urbanizes, land becomes more and (Bradsher). And, although solar paneled roads are expensive, China put 126.6 billion dollars into more of a commodity (Statistica). Because of this, the cost of land will increase, making it more

climate change and its accompanying problems. could become the first country to use fully renewable energy, and lead the way in defeating and the latter to maximize space. Through a combination of these two methods, I believe China tidal power and solar roads. I would choose the former to provide a constant source of energy, cars could be run by clean energy. I would choose China to be the focus of this, and invest in carbon emissions, we would need to find a clean way to produce energy, so that factories and problem of climate change, which would include reducing our carbon emissions. To reduce Overall, I think that to create a solution to global health, we first need to address the core

Works Cited

- "All About Coal." UCSUSA, 23 March 2019. https://www.ucsusa.org/clean-energy/coal -impacts
- Baker, Mark A. "China'a Location, Size, Land Boundaries, Length of Coastline, and Maritime chinapedia/geography/location-size-land-boundaries-length-of-coastline-maritime-claims Claims." Chinese Outpost, 2016. 21 March 2019. http://www.chinese-outpost.com/
- Barclay, Eliza, and Umair Irfan. "10 ways to accelerate progress against climate change." Vox. ange-global-warming-un-ipcc-report-solutions-carbon-tax-electric-vehicles 26 Nov. 2018. 23 March 2019. https://www.vox.com/2018/10/10/17952334/climate-ch
- Barnard, Micheal. "Tidal Power: Still Expensive, Still Unlikely To Contribute Much." Clean power-still-expensive-still-unlikely-contribute-much/> Technica, 13 June 2017, 23 March 2019. https://cleantechnica.com/2017/06/13/tidal-
- Panels" Bradsher, Keith. "Free Power From Freeways? China Is Testing Roads Paved With Solar
- 06/11/business/energy-environment/china-solar-roads-renewables.html> The New York Times, 11 June 2018. 23 March 2019. https://www.nytimes.com/2018/
- "China Population." Worldometers. 21 March 2019. 21 March 2019. http://www.worldometers info/world-population/china-population/>
- "Each Country's Share of CO2 Emissions." UCSUSA, 11 Oct. 2018. 21 March 2019. <a href="https://www.energy.com/nitry-nitr

- ww.ucsusa.org/global-warming/science-and-impacts/science/each-countrys-share-of-co2.
- "Electricity consumption in China between 2010 and 2018 (in TWh)" Statista, 2019. 21 March 2019. https://www.statista.com/statistics/302203/china-electricity-consumption/
- Garfield, Leanna. "China's solar energy explosion reveals a dim future for fossil fuels here's what it looks like." Business Insider, 5 Jun. 2018. 21 March 2019. https://www.busine ssinsider.com/china-solar-renewable-energy-panda-farm-2018-6>
- "How Does Tidal Power Work?" Energy Informative, 2019. 21 March 2019. http://energyinfor mative.org/how-does-tidal-power-work/?>
- "How is China managing its greenhouse gas emissions?" China Power, 7 March 2019, 23 March 2019. https://chinapower.csis.org/china-greenhouse-gas-emissions/
- "How is China's energy footprint changing?" China Power. 2019. 21 March 2019. https://china power.csis.org/energy-footprint/>
- Huifeng, He. "China's property boom spreads to poorer rural areas as fears grow of a debt time m/news/china/economy/article/2140470/chinas-property-boom-spreads-poorer-rural-area bomb." South China Morning Post. 6 April 2018. 23 March 2019. https://www.scmp.co s-tears-grow-debt
- "Power Plants." Tox Town, 31 March 2017. 23 March 2019. https://toxtown.nlm.nih.gov/sou rces-of-exposure/power-plants>
- Smith, Rob. "For every \$1 the US spent on clean energy in 2017, China spent \$3." World Economic Forum... 11 April 2018. 23 March 2019. https://www.weforum.org/agenda 2018/04/for-every-1-the-us-spent-on-clean-energy-in-2017-china-spent-3/>

- "Sources of Greenhouse Gas Emissions." EPA, 9 October 2018. 21 March 2019. https://www.e pa.gov/ghgemissions/sources-greenhouse-gas-emissions>
- "Tidal energy" National Geographic, 21 March 2019. https://www.nationalgeographic.or g/encyclopedia/tidal-energy/>
- "TIDAL ENERGY." Ocean Energy Council, 2018. 21 March 2019. http://www.oceanenergyco uncil.com/ocean-energy/tidal-energy/>
- "Urban and rural population of China from 2007 to 2017 (in million inhabitants)" Statista. 2019. n-of-china/> 23 March 2019. https://www.statista.com/statistics/278566/urban-and-rural-populatio
- "World Energy Outlook 2017: China" IEA, 2019. 21 March 2019. https://www.iea.org/weo/chi na/>