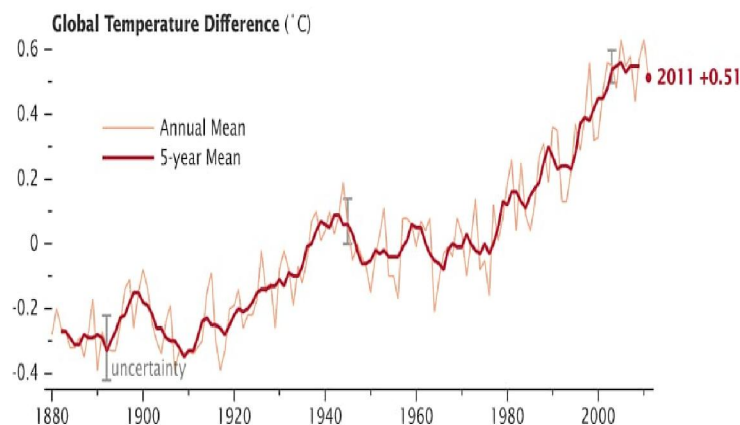
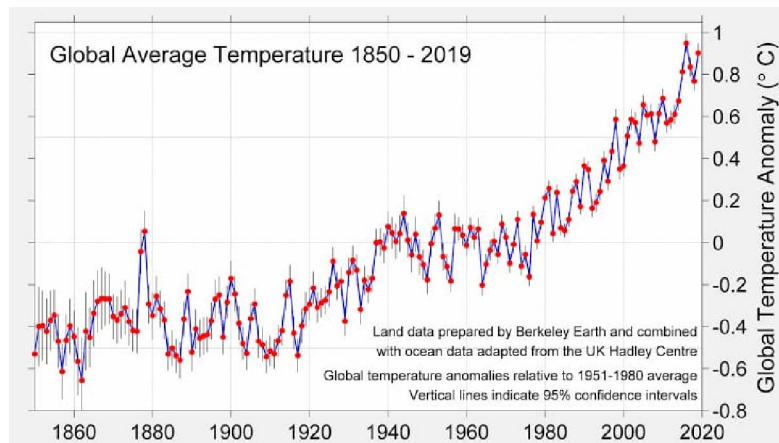


Future Fuel : H₂

Aslam Ali and Shubham Karale

Abstract: *Hydrogen is the fuel of the future. Since hydrogen is an energy carrier that can transform a fossil-fuel dependent economy into a hydrogen economy, which can provide an emissions-free transportation fuel. An ambitious chemistry student, these researchers understand the importance of a shift to a hydrogen fuel. Hydrogen is an energy carrier that can be used in internal combustion engines or fuel cells producing almost no greenhouse gas emissions when combusted with oxygen. And the only significant emission is water vapour. Hydrogen production and storage is currently undergoing extensive research. A solar-hydrogen system can provide the means of a totally emissions-free method of producing hydrogen. Although steam reformation of methane (CH₄) level is currently the major route to hydrogen production, and the emissions involved can also be controlled much more efficiently than our current system of transportation fuel. Climate change is a serious issue becoming increasingly evident to much of the population. Rising carbon dioxide (CO₂) levels have directly contributed to global warming phenomenon. As shown in the below figures. Along with global average temperature and global temperature difference in degree Celsius (°C).*



The core of the research concerns the advantages of hydrogen and the current progress related to the disadvantages of hydrogen as a transportation fuel. Much work is in progress to initiate a shift from a fossil-fuel to a hydrogen economy.

Keywords: Environment Friendly, Future Fuel, Cost Effective, Convenient to Use, Excellent Option in terms of Mileage.

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