**Group No: 54**

**Solar Based Peltier Refrigerator**

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**ABSTRACT**

# In the recent years, we have many problems such as energy crises and environment degradation due to the increasing CO2 emission and ozone layer depletion has become the primarily concern to both developed and developing countries. Our paper utilizes the solar energy for its operation. Solar refrigeration using thermoelectric module is going to be one of the most cost effective, clean and environment friendly system. This paper does not need any kind of refrigerant and mechanical device like compressor, prime mover, etc for its operation. The main purpose of this project is to provide refrigeration to the remote areas where power supply is not possible.

# Keywords: Carbon dioxide, Thermoelectric, Refrigeration, Peltier, Solar Panel