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**CLASS: J. S. S. THREE**

**TOPIC: IF I COULD INVENT SOMETHING NEW**

**AN ECO FRIENDLY AIR CONITIONING SYSTEM THAT RUNS ON SOLAR POWER**

The need for an eco – friendly air conditioning system that runs on solar power has become increasingly important in today’s world. With the growing concern for global warming and climate change, it is necessary to switch to renewable sources of energy for our daily needs. However, the development of such a system comes with several barriers and limitations.

One of the main limitations is the initial cost of setting up a solar – powered air conditioning system. The equipment required for such a system, such as solar panels, batteries and inverters; these can be expensive and may require a significant upfront investment. This cost can be a deterrent for many consumers, who may not be willing to invest in a solar – powered air conditioning system.

Another barrier is the size of the solar panels required to power an air conditioning system. Air conditioning units consume a lot of energy, and therefore, the solar panels required to power them need to be large enough to generate sufficient energy. The size of these solar panels can be a challenge for urban dwellers, who may have limited space for installation.

A further limitation is the issue of energy storage solar panels generating energy during the day, when the sun is shining, but this energy needs to be stored for use when the sun is not shining. The batteries used for energy storage need to be large enough to store sufficient energy to power the air conditioning unit for extended periods. This can be a limiting factor for those who may have limited space or cannot afford to purchase large batteries.

Another challenge is the issue of temperature control. Air conditioning units need to be able to regulate the temperature in a room to provide maximum comfort.

However solar panels may not generate sufficient energy during overcast or rainy days, which can affect the performance of the air conditioning unit.

Despite these barriers and limitations, the development of an eco – friendly air conditioning system that runs on solar power is essential for society. The use of renewable energy sources can reduce greenhouse gas emissions and slow down the rate of global warming. In addition, it can reduce the overall energy consumption of households and business leading to cost saving and greater energy efficiency.

Moreover, the development of a solar powered are conditioning system can lead to job creation and economic growth. The installation maintenance and production of solar panels and batteries can create new job opportunities and stimulate the economy. This can have a positive impact on society as a whole.

In collusion, the development of an eco – friendly air – conditioning system that runs on solar power is essential for society. While there are several barriers and limitations, the use of advanced technology and innovative.