

**Progress Report No. 3**

**Integrated Project**

**Course Code ASP3101**

**PROJECT TITLE**

**To make a solar mobile charger**

**SUBMITTED TO: SUBMITTED BY:**

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**APPLICATIONS:**

* For low-power portable electronics, like calculators or

small fans, a photovoltaic array may be a reasonable

energy source rather than a battery.

* In other situations, such as solar battery chargers,

watches, and flashlights the photovoltaic array is used to

generate electricity that is stored in batteries for later use.

* By using over voltage protection circuit we can protect

our battery from over charging. Charge discharge control

circuit contain two-way Switch. It gets active when

voltage exceeds above threshold voltage level.

**ADVANTAGES:**

* Cost Effective: Compared to the other mobile chargers,

the solar chargers are cost effective as it absorbs power

from the sun. It does not require electric power

* Versatile: It is also known to be versatile as it can be used

for all types of mobile phones

* Uninterrupted Power Supply: One of the greatest

advantages of solar mobile phone charger is that it can be

used to charge mobiles even during power outages.

* Emergency Purposes: Another benefit is that it hardly

requires any electrical outlet. It can therefore be used

during emergencies and outdoor purposes.

* Compact Design: Solar mobile phone chargers are

compact in size and easy to carry around.

**LIMITATIONS**

* Quite expensive: One of the most important drawbacks is

its price compared to the ordinary mobile phone

chargers, it is quite expensive as it utilizes solar energy

captivators.

* Charging time large: Another significant drawback is the

time frame required by the chargers to charge mobile

phones. It can take six to eight hours to charge mobile

phones compared to the other.

**CONCLUSION**

Renewable energy is not a new concept, nevertheless at an

exponential growing population, the development and

improvement of them are essential to sustain world power

hunger. In 2050 the population expectation on earth is

about 9 billion people, where approximately 5 billion will

use mobile phones. The application of renewable energy at

portable devices starts to plays a significant role at global

energy saving. Solar chargers are simple, portable and

ready to use devices which can be used by anyone especially

in remote areas.

**FUTURE SCOPE**

Basically the solar mobile charger is designed for charging

mobile battery. But in future, by making some

modifications we can use this charger to charge batteries

used in different portable devices like laptop, walky-talky,

i-POD, digital camera etc.

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