

SOLAR POWER FOUNTAIN

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ABSTARCT:

This project based on updating the brushless solar pump technology product , overcoming the short comings of hard start ,low efficiency ,poor stability of similar product .and even easier to start the some power brush pump the project Saves electricity it uses also decoration purpose. This project is environmental friendly. This process start quickly and also its service life is long. It operates on direct sun light, low voltage water pump is used.

KEYWORD: Fountain, Photovoltaic Panel, Solar panel and DC Motor.

INTRODUCTION:

A basic model of solar power fountain features a water pump connected solar panel as there is no battery in the arrangement, the setup will not work during the night it also may not work during cloud solar is work without light .If it is intended to is used only during the day time it is also used in load shedding condition .the setup must include a battery bank which store energy when sunlight is available and uses it during at night.

LITERATURE REVIEW:

The oldest fountain are worked only electricity now a days the modern fountain worked on the solar electricity the oldest fountain are very costly and its created problem for energy wastage but modern efficient solar energy fountain are economical and wastage of energy. If it is intended to be used only during the time of it also used in load condition.

METHODOLOGY:

- First we collect apparatus required for installation of this project.
- Then install solar panel on stand and dc shunt motor install also and make the connections as per circuit diagram.
- The solar energy is stored in battery and battery supply is connected to motor.
- The fountain is connected to motor .
- That process solar powered fountain is run and we can used for decoration purpose.

PROJECT DEVELOPMENT:

- Design the mechanical and electrical requirements for a flouting solar fountain .
- Install a second solar pump to the actual powered water fountain in order to improve its Actual performance conditions
- This project work on solar energy and save electrical energy.
- We can made musical solar fountain using dusk switch in project development.

OBSERVATIONS:

- First sun ray fall on the solar panel and it absorb sun rays.
- Then solar panel converts the renewable energy into electrical energy.

- Battery is used for store the electricity which is comes from solar panel but solar is not work without sun rays and bad environmental condition.
- In working condition this project not produces any smoke or pollution this is most advantages of solar powered fountain.

CONCLUSION:

If we used solar fountain in anywhere then we can save energy as well as save the money. We can install this project in remote areas because of less space is required. Solar powered fountain is the economical process.