Homemade diy solar power bank

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This week we are building SlimPanel, an intelligent all-in-one solution for portable solar energy production. SlimPanel has all the needed components inside a portable 1 inch enclosure. Basically it"s a huge but portable powerbank that can power 220v/110v appliances and USB devices. It uses an Arduino for its brains and can be upgraded to work with the Intel Edison IoT.

My reason for building this project is to develop and deliver a cheaper alternative for non-renewable energy. Yes the technology has been invented but the incorporation to fit everything you need inside the Solar Panel"s enclosure is far from conventional. Rich or poor, people need electricity. The project aims to deliver electricity to areas that have no access to electricity. Other than that, the project can be of use to the consumer level. People can use it as a source of electricity wherever they choose to go. In my opinion, this is an important tool for survival.

This is our investigatory project for our physics class in High School. I"m planning to enter this for this year"s Google Science fair and for Intel"s science contest. The project is still in the making and I"m build several prototypes to reach perfection.

Here"s a block diagram of the project. I apologize for the poor quality, I"ve used MS Paint to make the diagram. Anyway, I wrote a layman"s description below on how the system works. I wont use too much technical terms so that everyone would understand.

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