



# Solar energy storage box patent

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How do energy storage systems work?

The energy storage system is recharged from the grid off-peak when rates and house-hold usage are lowest. In a preferred embodiment, the renewable source is solar power, in other embodiments the renewable source is wind, tidal and biomass. The solar panels are typically located on canopy roofs at petroleum retail fueling sites.

Can a battery be stored in a storage medium?

Grid electricity, as well as alternate energy sourced electricity, can be stored in a storage medium as rechargeable batteries, molten slats, and pumped-storage hydroelectricity, and others. Rechargeable battery storage in the present disclosure could include storage batteries recycled from other EVs.

Does battery storage save energy?

While there is some energy lost during the battery storage process, the savings from purchasing the energy at low rates and selling at high rates helps with the economics of this lost. Technology exist for the transfer of energy from the grid to a storage medium, the AC-DC inverter is a key component.

How many kWh can a solar charging station produce a day?

If a charging station had two level 2 charging sites and two level 3 charging sites, it would be dispensing well over 50 kWh when charging at full capacity. Using present day solar panels on site in direct sun, maximum solar production would be 200-300 kWh daily.

Should solar panels be placed on recharging stations?

To generate a significant amount of electricity for recharging a number of solar panels would need to be on site. This disclosure proposes placing the solar panels on the station canopies. Most petroleum fueling sites have canopies to protect their customers from the weather.

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