

# Technical Components of the UTT Point Lisas Solar House

The house is not air-conditioned but is kept quite cool by the use of a highly reflective paint, wall insulation, high ceilings and wooden construction. There is also a reversible extractor fan which means that it can expel hot air from inside the house or take in cool air as the case may be. The solar panels are located on the northern and southern areas of the roof in order to receive maximum sunlight and provide power for the indoor and outdoor lights and appliances.

- 10 Polycrystalline PV Panels rated at 300 Watts (24 Volts, 8.5 Amps)
- 8 12-Volt Deep Cycle Batteries Connected in both series and parallel
- Rated Battery Power Output: 24 Volt DC Current and 230 Amps
- Battery Storage Capacity: 2- 3 Days (based on electrical load of the house)
- 50 Gallon Solar Water Heater

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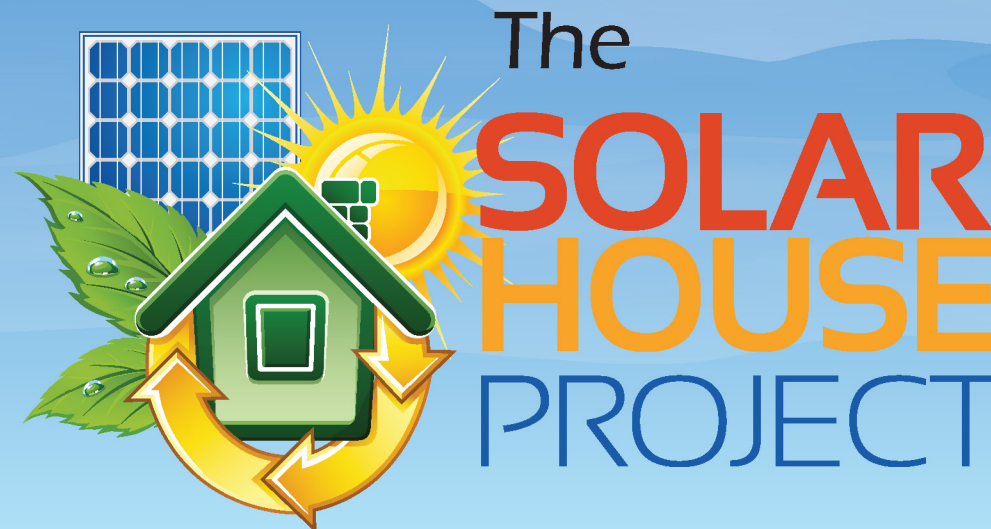
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**Ministry of Energy and Energy Affairs**



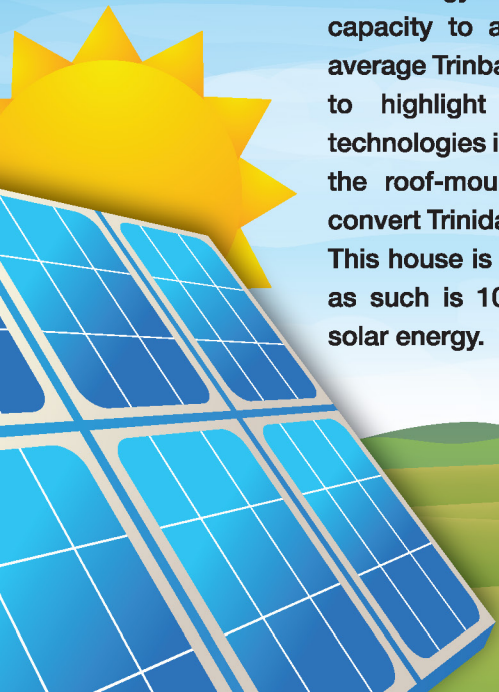
# What is a Solar House?



Solar homes actively use the sun's heat as well as light via photovoltaic technology to convert sunlight to electrical power. Power from a solar home gives freedom from dependence on the utility.

## The Trinidad & Tobago Solar House

The new solar house pioneered by the Ministry of Energy and Energy Affairs is a fully functional house with the capacity to accommodate the day-to-day life of the average Trinbagonian. Its construction is the perfect way to highlight the feasibility of renewable energy technologies in Trinidad & Tobago, specifically the use of the roof-mounted solar photovoltaic (PV) panels, to convert Trinidad & Tobago's abundant sunlight to energy. This house is not connected to national power grid and as such is 100% self-sufficient and powered by only solar energy.



## Layout of the Solar House

The basic construction of the house took approximately 3 months. The house is constructed with using treated pinewood with radiant heat barriers on the roof and the western wall or the heated wall. The foundation and floor of the house is made of strip footing and has been completed with seamless vinyl overlay.

- Area: 732 square feet
- 1 Patio
- 2 Bedrooms – 2 Beds
- 1 Kitchen – 1 Microwave, 1 Stove
- 1 Dining Room – 1 Table, 4 Chairs
- 1 Living Room – 2 Couches, 1 Television Set
- 1 Full Bathroom – 1 Toilet, 1 Face Basin, 1 Shower Stall

