“THE HIBISCUS VILLA INSTALLATION HELPED ILLUSTRATE TO THE COUNTRY, AND THE PUBLIC IN GENERAL, THAT A PROPERLY ENGINEERED AND EXECUTED SOLAR PV SYSTEM CAN WORK SUCCESSFULLY IN THE AREA AND CAN BE EASILY REPLICATED IN VARIOUS INSTALLATIONS.”

George Mathew  ➤ Teamsustain

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<td>Hibiscus Villa —</td>
<td>To provide power for remote resorts in a region without a reliable grid-tied power supply.</td>
<td>A state-of-the-art, off-grid solar system with Trojan Batteries for energy storage.</td>
<td>The resort now enjoys energy independence as well as energy security.</td>
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32 Batteries

100% Energy Demands Met

Net Zero Energy Independence
LOCATION

Thanneermukkom is a village in the Kerala District of India. It is located on the banks of Lake Vembanad with an expanse of backwater that makes this remote area a popular tourist destination.

CHALLENGE

This remote region lacks a reliable grid-tied power supply, which poses a challenge to resorts who want to provide all the “comforts of home.” Some resorts in the area rely on diesel generators; however, as a “green resort” Hibiscus Village has opted not to use this noisy, costly, and environmentally unfriendly method.

SOLUTION

Thomas Dominic, owner of Hibiscus Villa, wanted energy independence as well as energy security. He chose to install an off-grid solar photovoltaic system, which has been very successful in harnessing the power of the sun to support the resort’s electricity needs.

As a result of the demanding nature of this off-grid project, Trojan Battery’s Premium Line of flooded deep-cycle batteries were selected for energy storage. Specifically engineered to withstand the rigorous conditions of renewable energy applications, Trojan’s Premium Line batteries play a critical role in providing uninterrupted power for Hibiscus Villa in the evenings and on cloudy days.

SYSTEM SPECIFICATIONS

- Batteries: (32) L16RE-A*, Trojan Battery’s Premium Line of flooded deep-cycle batteries
- Inverter-Chargers: (2) Outback Power, 3048E
- PV Charge Controllers: (2) Outback FM80

*The L16RE-A is no longer available, please refer to the Renewable Energy Brochure for comparable battery.

OUTCOME

With the successful implementation of its uniquely engineered solar system, Hibiscus Villa is the perfect example of a ‘Net Zero’ energy independent resort, and proves that energy independence can be achieved with solar technology, robust and reliable energy storage, and engineering innovation.

BATTERY SOLUTION

- Superior Performance
- Rugged Durability
- Exceptionally Long Life

PARTNERS

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Trojan batteries are available worldwide and backed by outstanding technical support provided by full-time application engineers.

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