

Spice Village, Thekkady, Periyar Harnessing Renewable Energy and Minimising its Carbon Footprint



65 kw solar power plant.

Spice Village meets a substantial proportion of its energy needs from solar energy as part of the resort's low carbon approach. A 65 kw solar plant generates approximately 400 units of electricity on a bright day with the aid of panels, inverters and batteries and has produced nearly 1,36,000 units of clean energy since the system was installed in 2012. Water is heated through solar power. The use of biogas produced from biodegradable waste supplemented with LPG (liquid petroleum gas) for cooking is a further positive step.



Biogas plant.

Rooms at the resort have been designed to maximise use of natural light with adjacent trees providing natural cooling. Guest rooms have no air conditioning or TVs. Mini bars are CFC free to minimise carbon footprint. A key one switch system is used to save energy turning off electricity when guests leave their rooms. BEE star rated appliances and LED bulbs are used throughout the property, a further positive step in energy conservation. Energy is monitored on a daily basis to encourage energy reduction.

Month	2016	2017	2018	2019	2020	2021	2022	2023
Total Energy	15	15	15	15	15	15	15	15
Electricity	100	100	100	100	100	100	100	100
Water Production	100	100	100	100	100	100	100	100
Water Production	100	100	100	100	100	100	100	100
Water Leaks	100	100	100	100	100	100	100	100
Water Saved	100	100	100	100	100	100	100	100
Water in Use	100	100	100	100	100	100	100	100
Water Consumed in kWh	100	100	100	100	100	100	100	100

Daily energy saving comparison



Sizeable organic garden to reduce carbon footprint.

A sizeable organic garden tended by locals employing traditional crop raising methods and certified by Lacon GmbH to European Union standards (2092/91) reduces carbon emissions. The resort has a 50-mile radius policy for local procurement for its cuisine. Electric rickshaws combined with the resort's renewable energy generation provide a clean mode of transport. The resort has an Urjam (Green) Team in place to ensure energy conservation is a priority item on the agenda.