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Ecologically sustainable Eco Beach Wilderness Retreat boasts the largest hybrid power system in the world!

Located a little over an hour's drive south of Broome in the North of Western Australia, lies the amazing Eco Beach Wilderness Retreat featuring stunning villas, luxury tents, an infinity edge pool and an ocean front bar and restaurant - all set in one of the world's most remarkable destinations.

The retreat has been designed in such a way that there is absolute minimal impact on its breathtaking natural surrounds. A major part of Eco Beach's sustainability strategy is the hybrid power system which is the largest decentralised multi function renewable power system in the world.

The system, the most technically challenging hybrid system constructed in Australia, controls the use of the renewable energy, using the predictable nature of the Sun to determine the battery charging states.

Solar arrays located on selected living units gather energy from the sun which is then stored in a large battery bank featuring over \$250,000 of batteries that have an expected lifetime of more than 11 years. The grid based solar system allows excess power generated to be diverted to other areas where needed or stored in the batteries.

The Retreat's owner, Mr Karl Plunkett stated that the system was designed with two main design principles "It was our goal for the Solar to run alone when possible during day time loads, to minimise the use of diesel fuel and to run on a restricted basis alone without diesel operation in the night time to allow guests to enjoy the natural sounds throughout the night".

It is the first large scale, over 100kW, fully hybrid renewable power system in Western Australia and the third such system in the world and has been designed so it can be easily enlarged to generate more power if the retreat increases in size.

Located within in each Villa is a power monitor which allows clients to monitor their Villas power consumption throughout their stay. Each villa is monitored using wireless technology allowing a check on individual villas performance from anywhere in the world.

In a 10 month period, Eco Beach Wilderness Retreats amazing power system has generated 58.3MWh of energy, which represents a diesel fuel saving of more than 19,000 litres.

The retreat also features patented design Eco Tents and Villas which ensure maximum ventilation and encouraging minimal use of fans and air-conditioning, over 1km of elevated boardwalks linking the retreat made from "Eco Decking" a composite wood decking which contains recycled products, a waste water treatment plant and its own herb and vegetable gardens. These are amongst an array of other ways in which Eco Beach Wilderness Retreat is preserving and protecting the natural environment.

For a full list of Eco credentials or for more information please contact Kristy Bailey, Business Development Manager on 0408 020 886, email Kristy@ecobeach.com or visit www.ecobeach.com.au

One of the World's Most Remarkable Destinations
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