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Commercial-scale solar solutions.
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East-west ground mount on south beach

Case Study

Nurai Island, Abu Dhabi, UAE

Solar-Diesel Hybrid System on luxury resort island

2400 MWh/year
Solar production

5,600 tons/year
CO2 saved

1,800,000 AED/year
Saved on energy cost

Project Details

Industry	Island resort
Plant type	Solar-diesel hybrid
Capacity	11 MVA of DG 1,3 MWp Solar
Location	Nurai Island, UAE
Deployed	July 2016

Project Highlights

- Solar-Diesel Hybrid System
- Robotic Cleaning
- 5 types of mounting

Project Description

Zaya Nurai Island is an award-winning luxury resort island, just off the coast of Saadiyat Island in Abu Dhabi. The island hosts several dozen luxury villas, 5 restaurants, numerous attractions (including a surf pool), as well as a full set of infrastructure with RO plant, STP and staff housing. Due to the off-shore location, the island had been powered by diesel generators for several years. In a quest to reduce the cost and environmental impact of the power generation on the island, Zaya has contracted Enerwhere to supply the power requirement of the island on the basis of a Power Purchase Agreement (PPA).

Enerwhere deployed a customized solar-diesel hybrid system to the island in July 2016, designed to minimize the visual impact on the luxury island atmosphere. The solar plants are largely hidden on the roofs of utility buildings and back-of-the-house areas, with only a low-profile east-west facing solar system visible on the south beach.

The system integrates Enerwhere's solar generator system with multiple synchronized high-efficiency diesel generators at 3 separate sites on the island. The system also integrates the island's existing generators as additional backup capacity to provide cost-effective, reliable power around the clock.

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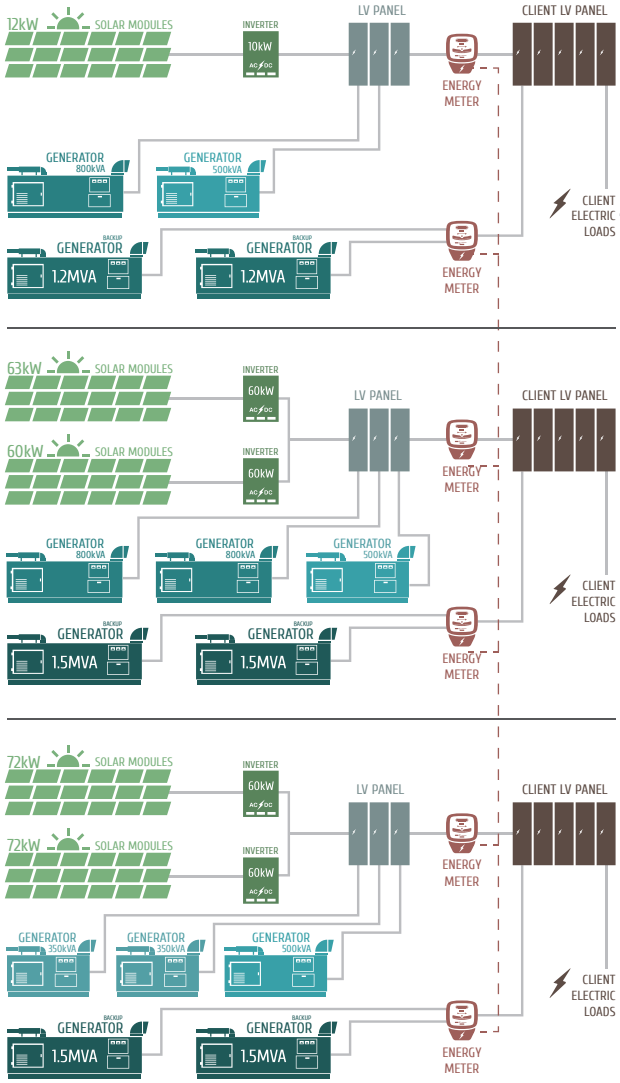
System Diagram

Nurai Island, Abu Dhabi, UAE

Solar-Diesel Hybrid System on luxury resort island



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Dubai Office: Mazaya Business Avenue, BB2, Office 2106, JLT
Abu Dhabi Office: Office 135-FD, L1, Incubator Bld, Masdar City

www.enerwhere.com | info@enerwhere.com | +971 4 396 9765