Case Study

Al Jada Development Site Office, Sharjah, UAE

Solar-Battery Hybrid Microgrid

32% reduction
In CO_2 Emissions

50 kWh
Battery Capacity

75 kWp
Solar Capacity

500 kVA
Diesel Generators

Project Highlights

- Solar-Diesel-Battery Hybrid System
- Ground mounted solar
- Remote monitoring & control

Project Details

Industry	Real Estate Development
Plant type	Solar-Diesel-Battery hybrid
Capacity	500 kVA of DG 75 kWp Solar 50kWh of battery
Location	University City, Sharjah
Deployed	February 2020

Client:

ARADA

Project Description

Arada – a property development company in Sharjah known for delivering boutique properties such as Nasma residences, Areej apartments, Tiraz and many more is developing Al Jada district near Sharjah airport.

Al-Jada district comprises of 2.2 million m^2 of residential area accommodating up to 70,000 residents, 665,000 m^2 of prime office and retail space for up to 20,000 staff all of which is surrounded by lush green areas comprising over 225,000 m^2 of.

Al-Jada's planning and construction is monitored and controlled by a central project management office (PMO) which is powered using Enerwheres' solar-diesel-battery system. Enerwheres' system comprising of 500 kVA Diesel Generators, 75 kWp of solar and 50 kW of battery capacity provides clean, reliable, efficient, and sustainable energy for all of Al-Jada's PMO energy needs. During winter months, Al-Jada's Project Management Office runs entirely on solar-battery system thereby eliminating diesel usage and subsequently any CO_2 emissions.