

Case Study

ADNOC Al Maha Camp, Habshan, Abu Dhabi

Ground Mount Solar System



2,762 MWh/year
Solar production



1,496 tons/year
CO₂ saved



773,279 USD/year
Electricity saved

Project Highlights

- Grid-connected
- Ballasted ground-mount installation
- Dusty and wind environment

Project Details

Industry	Temporary Accommodation
Plant type	Solar ground-mount
Capacity	1.7 MWp
Location	Habshan, Abu Dhabi
Deployed	February 2019

Project Description

In 2017, ADNOC launched its renewable energy initiative to reduce reliance on conventional fuel, cut down on greenhouse gas emissions (GHG) along with increased focus on reducing operating costs across all its subsidiaries. To help achieve its target, Enerwhere was contracted to provide turnkey EPC solution for ADNOC's pilot solar project at Al Maha Camp.

Al Maha Camp is home for approx. 1,300 staff of ADNOC gas processing division located in the remote desert region of Habshan-5 in Abu Dhabi and consists of faculty buildings like mess halls, leisure facilities, accommodations etc.

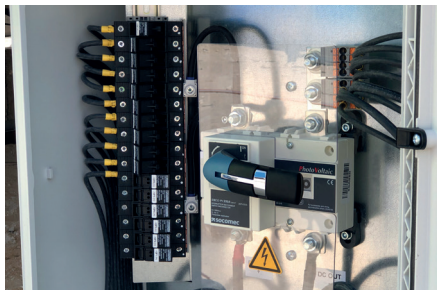
Enerwhere deployed 1.7 MWp of solar capacity using its proprietary ballasted East-West ground mount structure. Enerwhere's structure allows 20% increase in installed capacity when compared to conventional ground mount structures thus allowing efficient use of area available. The structure is also optimized to use robotic cleaning technology offering a cost-effective and automated O&M solution saving countless man-hours in mitigating the effects of soiling.

Enerwhere's design allows the system to be integrated into the existing power distribution substations and also has the potential to be connected to ADDC's electricity distribution network. Enerwhere's solar plant at Al Maha camp has already saved more than 1,400 tons of CO₂ during its first year of operation.



System Diagram

ADNOC Al Maha Camp, Habshan, Abu Dhabi Ground Mount Solar System



DC Combiner Boxes



Containerized Inverters



Containerized LV Panels



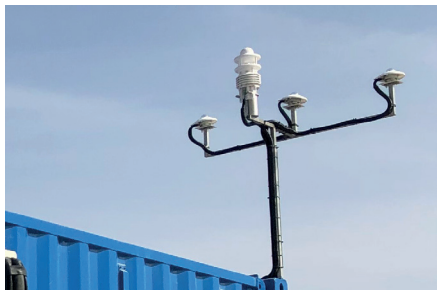
Ballasted Ground Mount



Engraved Tags



Multi Cable Transit System



Weather Station



Dust Sensors



Packaged Electrical System