Masdar Clean Energy Overview

Masdar's Clean Energy division is a leading developer and operator of utility-scale renewable energy projects, applications providing energy access to communities away from the electricity grid, and energy services consultancy.

Since 2006, Masdar has been a catalyst for renewable energy, climate change mitigation and clean-tech innovation in the MENA region and countries around the world – working with governments and leading businesses. Active in 40 countries, Masdar is a global renewable energy leader, one of the largest developers of off-grid solutions in the world, and a provider of operations and maintenance services.

Masdar Clean Energy has invested or committed to invest in projects valued at more than US$20 billion globally. Combined, these projects have a gross capacity of almost 14 gigawatts (GW), and displace up to 19.5 million tonnes of carbon dioxide emissions per year.

CLEAN ENERGY KEY PROJECTS

MIDDLE EAST

Shams Solar Power Plant, Al Dhafra region, Abu Dhabi, UAE

Technology used: Concentrated solar power (CSP) using parabolic trough
Capacity: 100 MW
Status: Operational

Masdar City 10MW, Masdar City, Abu Dhabi, UAE

Technology used: Solar photovoltaic (PV)
Capacity: 10 MW
Status: Operational

Phase 3, Mohammed bin Rashid Al Maktoum Solar Park, Dubai, UAE

Technology used: Solar PV
Capacity: 800 MW
Status: Operational

Sharjah Waste-to-Energy Project, Sharjah, UAE

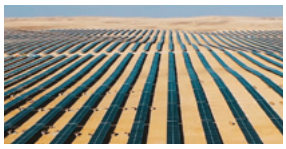
Technology used: Waste-to-energy (WTE)
Capacity: 30 MW
Status: Under construction

Al Dhafra Solar PV, Al Dhafra region, Abu Dhabi, UAE

Technology used: Solar PV
Capacity: 2 GW
Status: Under construction

Tafila Wind Farm, Hashemite Kingdom of Jordan

Technology used: Onshore wind farm
Capacity: 117 MW
Status: Operational



Baynouna, Amman, Hashemite Kingdom of Jordan

Technology used: Solar PV
Capacity: 200 MW
Status: Operational

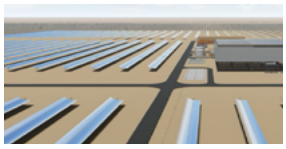
Dumat Al Jandal wind farm, Al Jouf region, Kingdom of Saudi Arabia

Technology used: Onshore wind farm
Capacity: 400 MW
Status: Under construction

South Jeddah Noor, Jeddah, Kingdom of Saudi Arabia

Technology used: Solar PV
Capacity: 300 MW
Status: Under construction

AFRICA



Noor Midelt, Midelt, Kingdom of Morocco

Technology used: Solar PV and CSP hybridization
Capacity: 800 MW total capacity
Status: Under construction

EUROPE

London Array, England, UK

Technology used: Offshore wind farm
Capacity: 630 MW
Status: Operational

Dudgeon Offshore Wind Farm, England, UK

Technology used: Offshore wind farm
Capacity: 402 MW
Status: Operational

Hywind, Scotland, UK

Technology used: Floating offshore wind farm
Capacity: 30 MW
Status: Operational

Krnovo Wind Farm, Montenegro

Technology used: Onshore wind farm
Capacity: 72 MW
Status: Operational

Čibuk 1, Serbia

Technology used: Onshore wind farm
Capacity: 158 MW
Status: Operational

Mlawa and Grajewo Wind Farms, Poland

Technology used: Onshore wind farms
Capacity: 51.4 MW
Status: Inaugurated

NORTH AMERICA

Rocksprings and Sterling Wind Farms, US

Technology used: Onshore wind farms
Capacity: 78.9 MW combined capacity
Status: Operational

1.6 GW Portfolio in US

Coyote, Scurry County, Texas, US
Technology used: Onshore wind farm
Capacity: 243 MW
Status: Operational

Las Majadas, Willacy County, Texas, US
Technology used: Onshore wind farm
Capacity: 273 MW
Status: Operational

Milligan, Saline County, Nebraska, US
Technology used: Onshore wind farm
Capacity: 300 MW
Status: Operational

Desert Harvest 1 & 2, California, US
Technology used: Solar PV and battery storage
Capacity: 214 MW solar PV and 35 MW battery energy storage
Status: Operational

Maverick 1 & 4, California, US
Technology used: Solar PV
Capacity: 308 MW
Status: Operational

Big Beau, Kern County, California, US
Technology used: Solar PV and battery storage
Capacity: 164 MW solar PV and 40 MW battery storage
Status: Under construction

ASIA

Cirata Floating Solar, West Java, Indonesia
Technology used: Floating solar PV
Capacity: 145 MWac
Status: Under construction

Zarafshan Wind Farm, Navoi region, Uzbekistan
Technology used: Onshore wind farm
Capacity: 500 MW
Status: Under construction

Nur Navoi Solar Plant, Uzbekistan
Technology used: Solar PV
Capacity: 100 MW
Status: Operational

Area 60 Solar PV Power Plant, Absheron district, Republic of Azerbaijan
Technology used: Solar PV
Capacity: 230 MWac
Status: Under construction

Hero Future Energies, India (Investment Platform)
Technology used: Onshore wind farms and solar PV
Capacity: 2.7 GW operational and under development
Status: Projects operational and under construction

AUSTRALASIA

East Rockingham Waste to Energy, Western Australia, Australia
Technology used: Waste-to-energy
Capacity: 29 MW
Status: Under construction

ENERGY SERVICES KEY PROJECTS

UNITED ARAB EMIRATES

Abu Dhabi Airports Company, Midfield Terminal, Abu Dhabi, UAE
Technology used: Solar PV
Capacity: 3 MW
Status: Operational

Abu Dhabi Fund for Development HQ, Abu Dhabi, UAE
Technology used: Water & energy saving solutions
Capacity: N/A
Status: Operational

Miral, Warner Bros. World Abu Dhabi, Yas Island, Abu Dhabi, UAE
Technology used: Solar PV
Capacity: 7 MW
Status: Under construction

Future Rehabilitation Centre, Mussafah, Abu Dhabi, UAE

Technology used: Water & energy saving solutions
Capacity: N/A
Status: Operational
International

Dhofar Wind Farm, Dhofar Governate, Oman

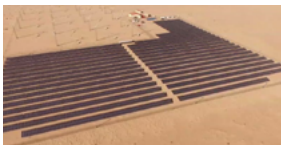
Technology used: Onshore wind farm
Capacity: 50 MW
Status: Operational

Afghanistan Solar Home Systems, Helmand province, Afghanistan

Technology used: 600 solar home systems across 27 villages
Capacity: N/A
Status: Operational

Sheikh Zayed Solar Power Plant, Mauritania

Technology used: Solar PV
Capacity: 15 MW
Status: Operational



Distributed Solar PV projects, Mauritania

Technology used: Solar PV
Capacity: 16.6 MW
Status: Operational

Port Victoria Wind Power Project, Republic of Seychelles

Technology used: Onshore wind farm
Capacity: 6 MW
Status: Operational

Ile de Romainville Solar Park, Republic of Seychelles

Technology used: Solar PV
Capacity: 5 MW
Status: Under construction

Bab Al Shams, Dubai, UAE

Technology used: Solar PV
Capacity: 1.2 MW
Status: Operational

Solar Home Systems, Morocco

Technology used: 17,670 solar home systems installed across 950 rural villages
Capacity: N/A
Status: Operational

Masdar Solar Programme in Egypt

Siwa Solar PV Plant
Technology used: Solar PV
Capacity: 10 MW
Status: Operational

Red Sea Solar Power Plants
Technology used: Solar PV
Capacity: 14 MW
Status: Operational

Al Wadi Al Jadeed Solar PV Plants
Technology used: Solar PV
Capacity: 6 MW
Status: Operational

Egypt Solar Home Systems
Technology used: 7,000 solar home systems installed
Capacity: N/A
Status: Operational

UAE-PACIFIC PARTNERSHIP FUND PROJECTS

Cycle 1

Kiribati
Technology used: Solar PV
Capacity: 500 kW
Status: Operational

LaKaRo, Fiji
Technology used: Solar PV
Capacity: 525 kW
Status: Operational

Samoa
Technology used: Cyclone-proof wind farm
Capacity: 550 kW
Status: Operational

Vava'u, Tonga
Technology used: Solar PV
Capacity: 512 kW
Status: Operational

Tuvalu
Technology used: Rooftop solar PV
Capacity: 500 kW
Status: Operational

Vanuatu: Port Vila
Technology used: Solar PV
Capacity: 767 kW
Status: Operational

Cycle 2

Honiara, Solomon Islands
Technology used: Solar PV
Capacity: 1 MW
Status: Operational

Majuro, Marshall Islands
Technology used: Solar PV
Capacity: 600 kW
Status: Operational

The Republic of Nauru
Technology used: Solar
Capacity: 500 kW
Status: Operational

Palau
Technology used: Solar PV, Diesel Hybrid Plant, Solar Home Systems
Capacity: 200 kW solar PV and 100 solar home systems
Status: Operational

Pohnpei, Federated States of Micronesia
Technology used: Solar PV
Capacity: 600 kW
Status: Operational

UAE-CARIBBEAN RENEWABLE ENERGY FUND

Cycle 1

Thomas A. Robinson National Stadium 925 kW Solar PV Carport Power Plant, Bahamas
Technology used: Solar PV
Capacity: 925 kW
Status: Operational

Bridgetown 350 kW Solar PV Carport Power Plant & Bowmanston 500 kW Solar PV Power Plant, Barbados
Technology used: Solar PV
Capacity: 850 kW combined capacity
Status: Operational

Union Island, Saint Vincent & the Grenadines
Technology used: Solar PV battery hybrid power plant
Capacity: 600 kW
Status: Operational

MASDAR'S DOMESTIC AND INTERNATIONAL PROJECTS

MASDAR IMPACT MAP

International and Middle East

1. ENGLAND, UK
   - London Array
   - Dudgeon Offshore Wind Farm
2. SCOTLAND, UK
   - Hywind Scotland Floating Wind Farm
   - Batwind Energy Storage System
3. SPAIN
   - Gemasolar
   - Valle 1 & 2
4. MOROCCO
   - Solar Home Systems
   - Noor Midelt Phase 1 Project
5. MAURITANIA
   - Sheikh Zayed Solar Plant
   - Rural Electrification Programme
6. SERBIA
   - Čibuk 1 Onshore Wind Farm
7. MONTENEGRO
   - Krnovo Onshore Wind Farm
8. EGYPT
   - PV Plants and Solar Home Systems
   - Infinity Power PV Plant
9. JORDAN
   - Tafila Onshore Wind Farm,
   - Baynouna Solar Plant
10. OMAN
    - Dhofar Onshore Wind Power Project
11. AFGHANISTAN
    - Solar Home System, Rooftop PV
12. SEYCHELLES
    - Port Victoria Onshore Wind Farm
    - Ile de Romainville Solar Plant
13. PALAU
    - Palau Solar and Water Treatment
14. POHNPEI
    - Pohnpei Solar Plant
15. TUVALU
    - Tuvalu Solar Plant
16. NAURU
    - Nauru Solar Plant
17. HONIARA
    - Solomon Islands Solar Plant
18. VANUATU
    - Vanuatu Solar Plant
19. KIRIBATI
    - Kiribati Solar Plant
20. MAJURO
    - Marshall Islands Solar Plant
21. FIJI
    - Fiji Solar Plant
22. TONGA
    - Tonga Solar Plant
23. SAMOA
    - Samoa Onshore Wind Turbines
24. CARIBBEAN
    - UAE-CREF projects across 16 Caribbean Island Nations
25. GERMANY
    - Solar Energy Plant
26. SAUDI ARABIA
    - Dumat Al Jandal Wind Farm
    - Jeddah Solar PV IPP
27. INDIA
    - Hero Future Energies
28. INDONESIA
    - Cirata Floating Solar
29. AUSTRALIA
    - East Rockingham Waste to Energy
    - Maryvale Energy from Waste (EfW)
30. UNITED STATES
    - Rocksprings Wind Farm
    - Sterling Wind Farm
    - Coyote Wind Farm
    - Las Majadas Wind Farm
    - Milligan 1 Wind Farm
    - Desert Harvest 1 & 2 Solar PV Plants
    - Maverick 1 & 4 Solar PV Plant
    - Big Beau Solar PV Plant
31. AZERBAIJAN
    - Garadagh Solar PV Power Plant
32. UZBEKISTAN
    - Zarafshan Wind Farm
    - Nur Navoi Solar Plant
    - Samarkand PV
    - Jizzakh PV
33. POLAND
    - Mlawa and Grajewo Wind Farms
34. ARMENIA
    - Solar PV Plant
35. GREECE
    - Solar Power Plant
36. IRAQ
    - Solar Power Projects
37. YEMEN
    - Solar Power Plant

United Arab Emirates - Middle East

ABU DHABI

1. SHAMS
   - CSP Plant
2. ABU DHABI GOVERNMENT
   - Solar Rooftop Programme
3. UM AL ZUMOOL
   - Off-grid PV Plant
4. MURAWAH ISLAND
   - PV Plant
5. AL MUSSAFAH
   - Al Reyadah Carbon Capture, Use, and Storage (CCUS) Project
6. SEA PALACE
   - Solar Rooftop Project
7. DESALINATION PILOT PROJECT
8. AL AIN DIWAN
   - Lighting Efficiency Project
9. AL JARNAIN ISLAND
   - PV Plant
10. CROWN PRINCE COURT
    - Solar Rooftop Project
11. ABU DHABI FUND FOR DEVELOPMENT
    - HQ Solar Rooftop Project
    - Water & Energy Saving Project
12. MASDAR CITY
    - PV Plant & Rooftop Solar PV
13. MIRAL – WARNER BROS. WORLD ABU DHABI
    - Solar Rooftop Project
14. FUTURE REHABILITATION CENTRE
    - Water & Energy Saving Project
15. ABU DHABI AIRPORTS COMPANY (ADAC)
    - Solar Project
16. AL DHAFRA
    - Solar PV Project

DUBAI

17. MOHAMMED BIN RASHID AL MAKTOUM SOLAR PARK
    - Phase 3
18. BAB AL SHAMS
    - Solar PV Plant

SHARJAH

19. SHARJAH WASTE-TO-ENERGY FACILITY

RAS AL KHAIMAH

20. RASHID ABDULLAH OMRAN HOSPITAL
    - Solar Rooftop Project