

sun2flow

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sun2flow™
water pumping solutions
by The meeco Group

Save up to
20 000L
of Diesel per year*



* This estimation is based on a 30 HP pump requiring 10 lts per hour, running 5.5 hrs per day and 365 days a year.

sun2flow™ is the ideal solution to pump water in off-grid areas where lakes, rivers or natural water reserves can easily be found. Its operational principle is to connect photovoltaic modules to a water pumping technology and thus allow for real time and in-situ operation of the pump.

Features

- Exclusively developed with water pumping experts to ensure perfect fit between mobile solar and water pumping technology and best performance
- Integrated PV modules with adjustable tilt angle from 0 to 50° inclination
- Designed for mobile and heavy-duty outdoor use, using galvanized iron sheet and resistant leaf spring suspension
- Stabilizing trailer ballast system to compensate ground conditions or to secure the system under high wind forces

Benefits

- Improving surface water quality via the integrated ventilation process
- Virtually no maintenance thanks to the combined use of long lasting high-end technologies such as polycrystalline solar photovoltaic modules and proven water pumping devices
- Usable on irregular ground surfaces and inclinations
- Several add-on components that significantly increase the spectrum of applications such as street lighting, residential power supply or energy storage

Advantages of mobile solution

- Manual tracking: Up to 20% extra water production per day
- Utilization of single power supply and pump across multiple fields
- Utilization of the system as power backup and supply

Technical Data

sun2flow™ Mobile

Dimensions (L x W x H)	4500 x 1800 x 1800 mm (variable lenght: up to 8500 mm)
Total weight	min. 350 kg - max. 1000 kg
Material	Galvanized iron sheet
Mechanics	Single axle with leaf spring suspension
Storage area	900 x 200 x 400 mm

PV

Installed capacity	Up to 2100 Wp per trailer Modular and extendible to 10 kWp
Module surface	min. 9.75 m ² - max. 30 m ²
Module inclination	0 to 50°
PV Module	Suntech 200-240 Wp Polycrystalline module (or equivalent)



sun2flow™ Fixed

Dimensions (L x W x H)	As per design
Certificates	ISO 9001:2000 and ISO 14001:2004
Material	Galvanized iron sheet
Storage area	As per module surface

PV

Installed capacity	Up to 25 kWp to drive deep well pumps up to 20 HP
Module inclination	As per location
PV Module	Suntech 200-240 Wp Polycrystalline module (or equivalent)



Accessories

Pump safety	Wires & pegs
Energy storage	Backup using Lithium or dry GEL batteries
Pipes	PVC & GI pipes and elbows
Lighting	LED lighting or equivalent
Cabling and jointing	Pump cable and waterproof jointing kit
Others	Sleeves, reducers, valves and splitters

Applications

- Mobile water pumping



Livestock water



Field irrigation

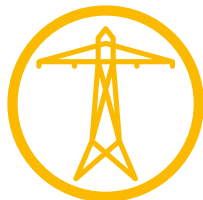


Emergency

- Extended applications



Energy storage



Off-grid



Street lighting



Residential



Night-time power



Water Pumps

- Wide selection of pumps: DC & AC solar pumps
- Total dynamic head: From 2 to 3,50 metres
- Flow : from 0.5 m³/hr to 150 m³/hr (greater than 0.75 MLD)
- Type of pumps: Submersible, surface and sprinkler

DC Range (Up to 1,440 Wp)

Use	For mobile applications
Pump type	4 inch centrifugal submersible pump
Nominal power	Up to 1,440 Wp
Max discharge:	Up to 19 m ³ / hr



DC Range (Up to 9,000 Wp)

Use	For fixed and mobile applications
Pump type	4,6,7 & 8 inch centrifugal submersible pump
Nominal power	Up to 10,000 Wp
Max discharge:	Up to 19 m ³ / hr



AC Range

Pump type	4 ,6,7,8 inch surface, submersible and sprinkler pumps
Nominal power	0.5 to 30 HP
Max discharge:	750 m ³ / day





About The meeco Group

As a leader in clean renewable energy, meeco™ has provided clients with services and solutions for over 250 MW across three continents.

We work behind the scenes with project developers, businesses, governments, technology providers, and EPC contractors to structure, finance, and commission highly bankable projects. By providing the optimal set of services and solutions for each project, we generate attractive returns for clients and other stakeholders.

The meeco Group delivers these services and solutions via regional offices located worldwide to ensure we address local requirements and community needs.

Some of these services and solutions include:

- **clear advisory services:**
strategic consulting, project services, financial advisory and communications
- **oursun™ turnkey solutions:**
grid-connected and off-grid solutions, sun2go™ portable solutions and energy storage solutions
- **asset management services:**
on-going site services

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