

Comuni di : DORNO
Comuni di : SCALDASOLE
Comuni di : PIEVE ALBIGNOLA
Provincia di : PAVIA
Regione : LOMBARDIA



NEOEN

NEOEN RENEWABLES ITALIA srl
Via Giuseppe Rovani, 7 - 20123 MILANO (MI)

PROGETTO DEFINITIVO

IMPIANTO DI PRODUZIONE DI ENERGIA ELETTRICA DA FONTE
RINNOVABILE AGRIVOLTAICA DI POTENZA NOMINALE PARI A 104.734,56
kWp E RELATIVE OPERE DI CONNESSIONE ALLA RETE RTN

"SOLARE DORNO - NEOEN"

TITOLO ELABORATO :

SCHEMA TECNICA TRACKER

DATA : 22 maggio 2024

N°/CODICE ELABORATO :

SCALA : -----

Tipologia : EL (ELABORATI)

EL 030

PROGETTISTI:

TIMBRI E FIRME:



EDILSAP s.r.l.
Via di Selva Candida, 452
00166 ROMA
Ing. Fernando Sonnino
Project Manager



00	202304086	Emissione per Progetto Definitivo	EDILSAP srl	Ing. Fernando Sonnino	Ing. Fernando Sonnino
N° REVISIONE	Cod. STMG	OGGETTO DELLA REVISIONE	ELABORAZIONE	VERIFICA	APPROVAZIONE

CONVERT-2P

SINGLE-AXIS SOLAR TRACKER | 2-IN-PORTRAIT



Easy to Install. Easy to Own.

The modular design and superior engineering of the Valmont® Solar Convert-2P Single-Axis Tracker maximizes space, allowing for fewer posts per megawatt, elimination of back-side shading, and increased site accessibility.



Simple, Robust Table Structure Design | Short rows provide best-in-class terrain following and layout density while enabling a stiff structure that minimizes failures and decreases long-term costs.



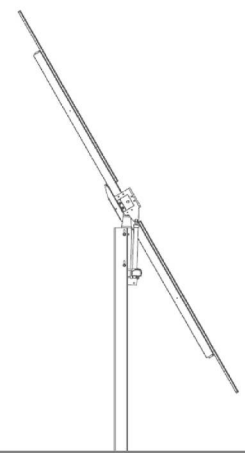
Innovative, Hybrid Controller Architecture | The wireless controller utilizes existing DC infrastructure to enable backup capabilities instead of failure-prone batteries or the need for auxiliary modules.



Global Supply Chain, Highest Quality | With 85 manufacturing facilities on six continents, Valmont has the footprint and capability to ship the highest-quality product while offering unmatched price stability and availability.



International, Bankable Product Portfolio | Valmont Solar's Convert Trackers have been deployed in 11 countries on four continents, supporting over 3.5GW for leading customers, financiers and partners.



THE IDEAL SOLUTION FOR:
Utility-Scale Projects

STRUCTURAL FEATURES

Tracking Technology	Horizontal, balanced single-axis tracker with independently driven rows and backtracking
Maximum Tracking Error¹	Up to ± 20mm horizontally in all directions ; up to ± 5° twist ; up to ± 2° out-of-plumb
Rotation Angle	Up to ± 55°
Module Compatibility	Adaptable to all available PV modules types on market: Monofacial and Bifacial (thin film, framed and frameless)
Ground Cover Ratio	Fully configurable; typical range from 25% to 50%
Land Slope	Up to 15% N-S (extended options available)
Configurations	2 modules in portrait

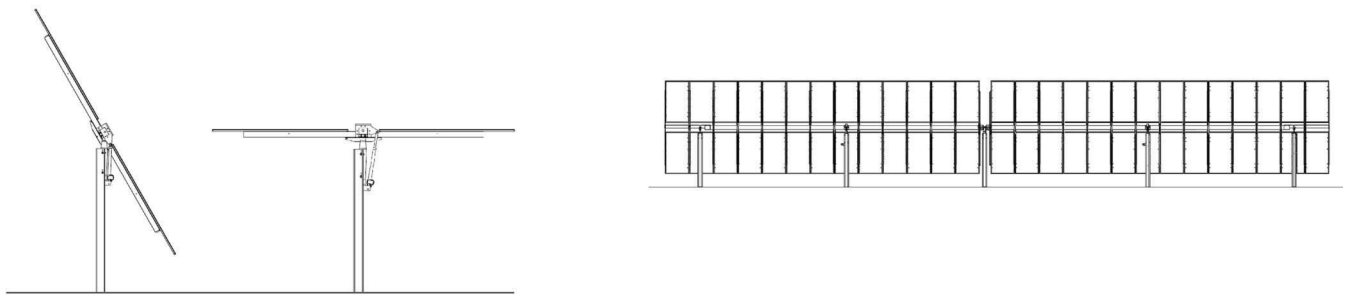
ELECTRONIC SPECIFICATIONS

Motor	Linear actuator with induction AC motor (lubrication-free) with integrated encoder
System	Electronic control boards for multiple system architectures (two solutions 10 or 100 actuators in closed loop with encoder)
Power Supply	<ul style="list-style-type: none"> • AC power supply from auxiliary service • Smart power integration with string inverters
Wind and Snow Loads	Communication between SCADA and control board: Wired (RS485) or Wireless (LoRa)
Operation Temperature Range	-20°/50° C (-4° F/122° F)
Solar Tracking Method	Astronomical clock with GPS input; self-configuring; no irradiation or tilt sensor required
Monitoring and Data Stream	Wireless or wired (RS485, Ethernet, Fiber Optic)
Communication	Real-time communication or remote mode communication via Modbus

INSTALLATION

Foundation	Compatible with all foundation types (driven pile, concrete)
Installation Method	Requires no specialized personnel or equipment; no in-field welding
Module Installation Method	Compatible with rivets or bolts
Grounding Method	Direct ramming, or pre-drilled solutions depending on geo-technical properties of the terrain
Warranty	10 years on structural components; 5 years on motors and electronic components (extended warranty available)

EXAMPLE: TYPICAL (2) TRACKER TABLE WITH 54 MODULES



QUALIFICATIONS & CERTIFICATES:

UL 2703
 UL 3707
 ISO 9001
 IEC 65817
 ISO 14001
 ISO 45001
 ISO 50001



1. when average terrain slope is below 5%