Soggetto promotore: **Gruppo Marseglia**

Soggetto proponente: **Masserie Salentine S.r.l. Società Agricola** (componente agricola)

Soggetto proponente: **Energetica Salentina S.r.l.** (componente fotovoltaica)

IMPIANTO AGRIVOLTAICO

SITO NEI COMUNI DI NARDÒ, SALICE SALENTINO E VEGLIE

IN PROVINCIA DI LECCE

Valutazione di Impatto Ambientale

(artt. 23-24-25 del D.Lgs. 152/2006)

Commissione Tecnica PNRR-PNIEC

(art. 17 del D.L. 77/2021, convertito in L. 108/2021)

Idea progettuale e coordinamento generale: **AG Advisory S.r.l.**

Paesaggio e supervisione generale: **CRETA S.r.l.**

Programma di ricerca "Paesaggi del Futuro", Responsabili scientifici: **Prof. Arch. Paolo Mellano, Prof.ssa Arch. Elena Vigliocco** (Politecnico di Torino)

Programma di ricerca "Ottimizzazione dell'agrivoltaico con oliveti a siepe: analisi numerico matematica", Responsabili scientifici: **PhD Cristiano Tamborrino** (Università degli Studi di Bari), **PhD Elisa Gatto** (Biologa ambientale)

Postproduzione: **Galante – Menichini Architetti per AG Advisory S.r.l.**

Supporto grafico: **Heriscape Progetti S.r.l. STP per AG Advisory S.r.l.**

Progettisti:

Progetto agricolo: **Prof. Massimo Monteleone** (Università degli Studi di Foggia)
Dott. Agr. Barnaba Marinosci

Progetto impianto fotovoltaico: **Ing. Andrea D'Ovidio**

Progetto strutture: **Ing. Giovanni Errico**

Progetto opere di connessione: **Ing. Andrea D'Ovidio**

Contributi specialistici:

Acustica: **Ing. Massimo Rah**

Agronomia: **Dott. Agr. Barnaba Marinosci**

Approvvigionamento idrico: **Geol. Massimilian Brandi**

Archeologia: **Dott.ssa Caterina Polito**

Clima e PMA: **Dott.ssa Elisa Gatto**

Fauna: **Dott. Giacomo Marzano**

Geologia: **Geol. Pietro Pepe**

Idraulica: **Ing. Luigi Fanelli**

Rilievi: **Studio Tafuro**

Risparmio idrico: **Netafim Italia S.r.l.**

Vegetazione e microclima: **Dott. Leonardo Beccarisi**

Cartella	*Identificatore*:	
VIA_2/	**4_PAGRVLTELAB12_B**	**Scheda tecnica tracker**

Descrizione Scheda tecnica dei tracker

Nome del file:	***Tipologia***	***Scala***
4_PAGRVLTELAB12_B.pdf	Relazione	-

Autori elaborato: Ing. Andrea D'Ovidio

Dott. Ing. ANDREA D'OVIDIO N° 3079 "Sez. A" Settore Civile ambientale Industriale dell'Informazione — Ordine degli Ingegneri della Provincia di Caserta

D'Ovidio Andrea Ingegnere 19.03.2024 19:34:18 GMT+01:00

Rev.	***Data***	***Descrizione***
00	20/03/24	Prima emissione
01		
02		

Spazio riservato agli Enti:

CONVERT-2P

SINGLE-AXIS SOLAR TRACKER | 2-IN-PORTRAIT

valmont SOLAR

Easy to Install. Easy to Own.

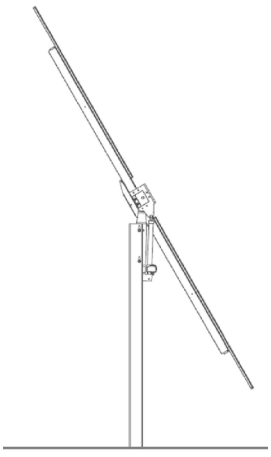
The modular design and superior engineering of the Valmont® Solar Convert-2P Single-Axis Tracker maximizes space, allowing for fewer posts per megawatt, elimination of back-side shading, and increased site accessibility.

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 auxilery 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.



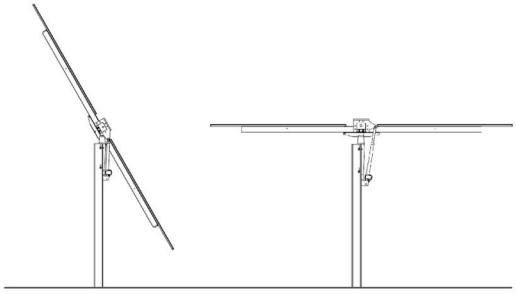
THE IDEAL SOLUTION FOR:

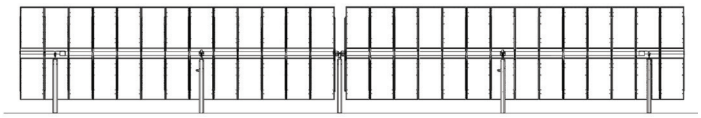
Utility-Scale Projects

POWERED BY **CONVERT TECHNOLOGY**

STRUCTURAL FEATURES	
Tracking Technology	Horizontal, balanced single-axis tracker with independently driven rows and backtracking
Maximum Tracking Error[1]	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	• 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%