



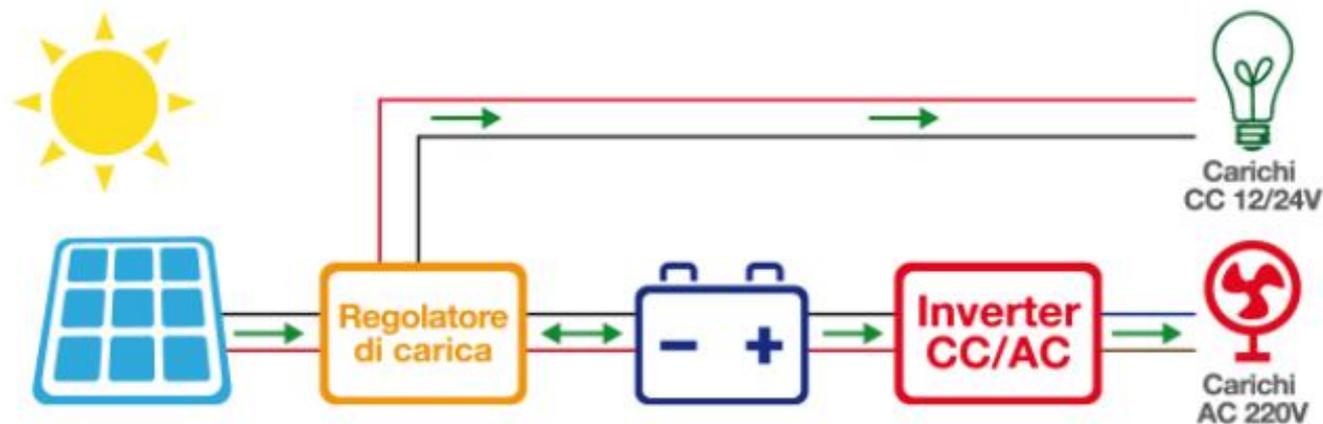
rem **TEC**

GREENPOWER **TO THE PEOPLE**



**ENERGY
PRODUCTION
OPTIMISATION
FOR
PHOTOVOLTAICS
AND
AGROVOLTAICO®**

STAND ALONE POWER SYSTEM



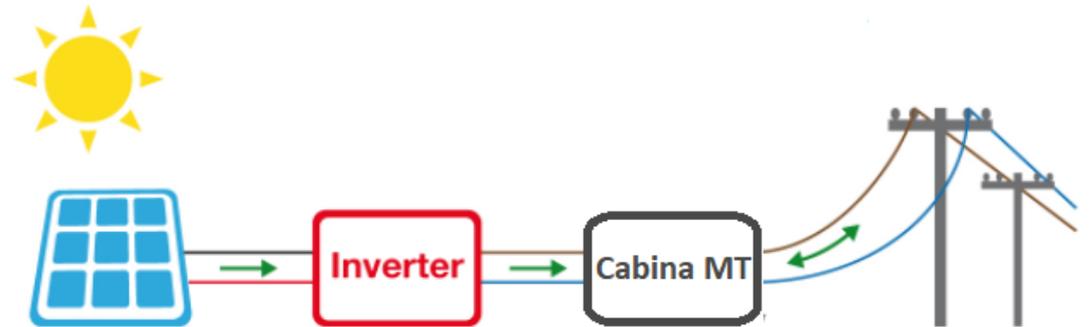
Application examples:

- Military installation
- Rural electrification
- telecommunications installations and remote monitoring stations

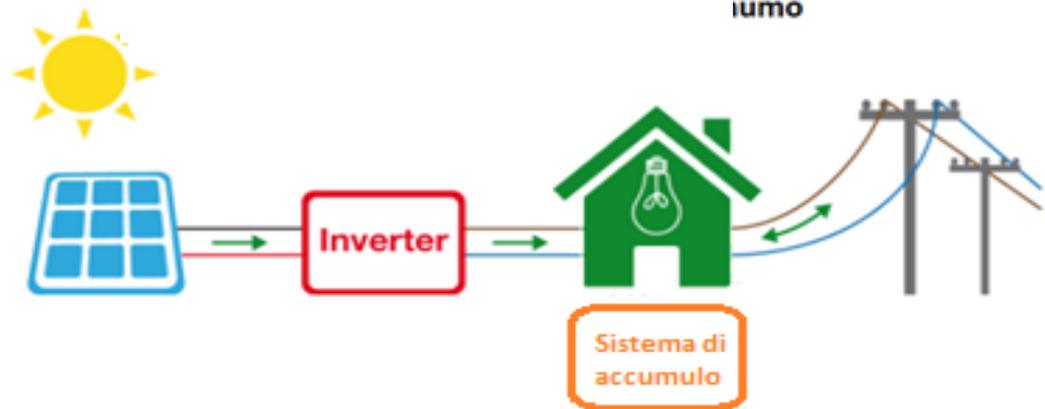


GRID CONNECTED PLANTS

☐ Energy sale only



☐ Self-consumption and sale

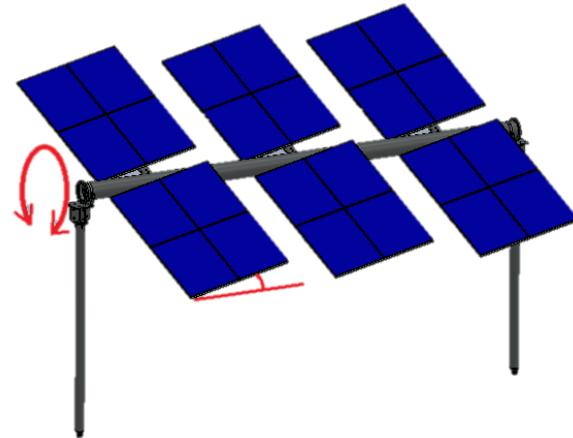


Application examples :

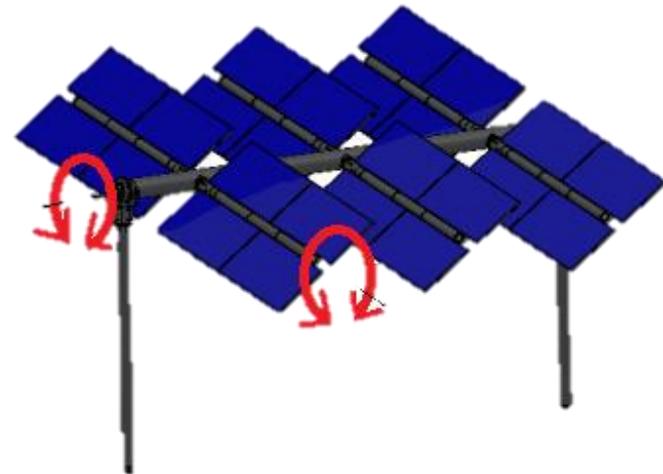
- Energy production for sale on the energy market
- Provide energy for residential or commercial buildings
- Provide energy for industries or farmers

SOLA TRACKING PLANTS

☐ Single axis tracker



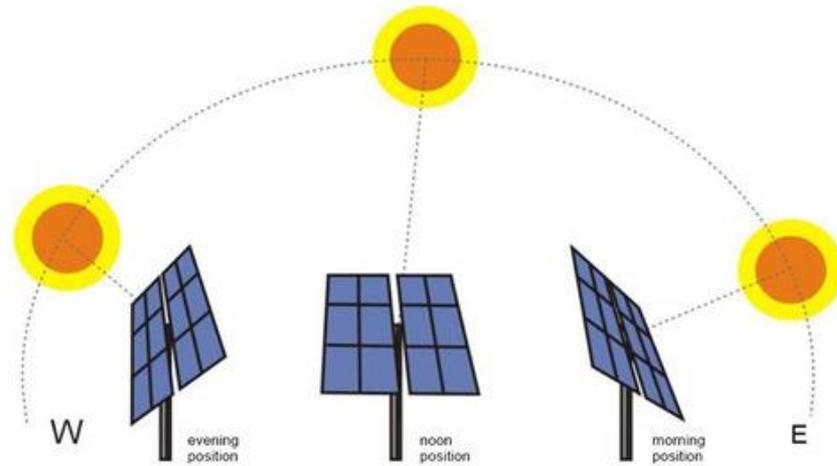
☐ Dual axis tracker



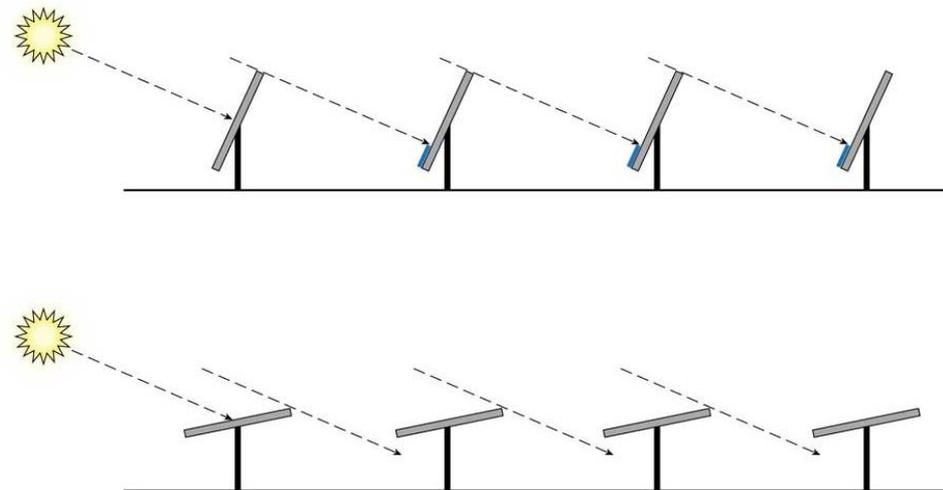


SOLAR TRACKING PLANTS

☐ Tracking system



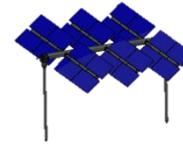
☐ Backtracking





MAIN COMPONENTS

PV modules



Solar trackers

Solar strings and string boxes



Parallel switchgears DC/AC

Inverters



Batteries

Transformers



OPTIMISATION NEW AND EXISTING PLANTS

□ Engineering

- Design and modeling of the system
- Factory inspection and checks on site
- High qualified installer

□ Revamping

- Optimisation of the monitoring system
- Replacement with more efficient components
- Conversion of fixed plant in solar tracking system

□ O&M

- Optimisation of the maintenance control and interventions
- Collecting data in order to optimize preventive maintenance and define curative maintenance



DRONES AND THERMOGRAPHY

□ **Collecting data for optimisation of existing and new plants**

- Diffuse and multifunction investigation
- Fast identification of anomalies and problems
- Reduction of the waiting time and operation time for maintenance





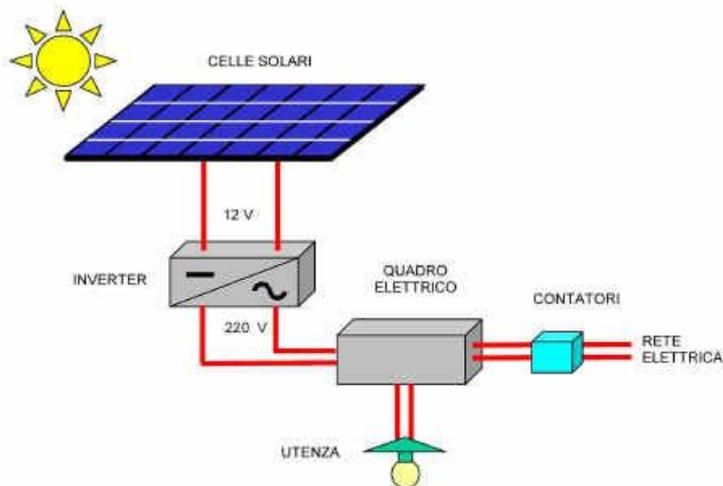
AGROVOLTAICO® PLANT

- ❑ Advanced modeling of the system both for energy and agriculture (Voltaico Plus ®)
- ❑ Optimization of the plant layout
- ❑ Identification of the crops more appropriate
- ❑ Best practice for installation and maintenance



STORAGE SYSTEM

Local



Grid

Progetti Storage Terna

Power Intensive

Storage Lab	
Mission	Contributo alla sicurezza del Sistema
Taglia Progetto	16 MW
Tecnologie	Lithium; Zebra; Vanadio; Super Caps
# Siti	2

Sito 1) Sardegna - Codrongianus

- Taglia finale pianificata (MW): = 8,65 MW
- Status: in sperimentazione = 7,9 MW
- procurement avviato = 0,75 MW

Sito 2) Sicilia - Ciminna

- Taglia finale pianificata (MW): = 7,3 MW
- Status: in sperimentazione = 5,55 MW
- procurement avviato = 0,75 MW
- in programmazione = 1 MW

Energy Intensive

Impianti SANC	
Mission	Riduzione delle congestioni di rete (MPE*)
Taglia Progetto	35 MW
Tecnologie	NAS
# Siti	3

Sito 1) Ginestra

- Taglia finale pianificata (MW): = 12 MW
- Status: in esercizio

Sito 2) Flumeri

- Taglia finale pianificata (MW): = 12 MW
- Status: in esercizio

Sito 3) Scampitella

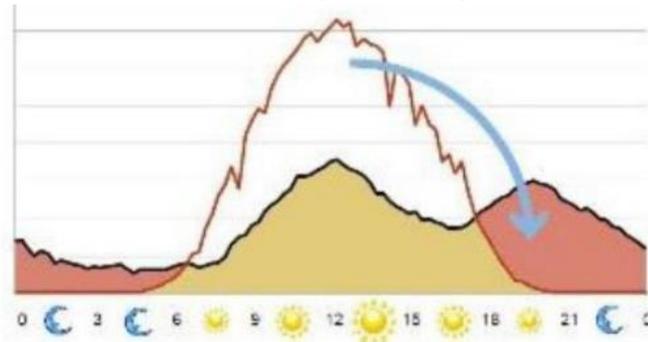
- Taglia finale pianificata (MW): = 10,8 MW
- Status: in esercizio



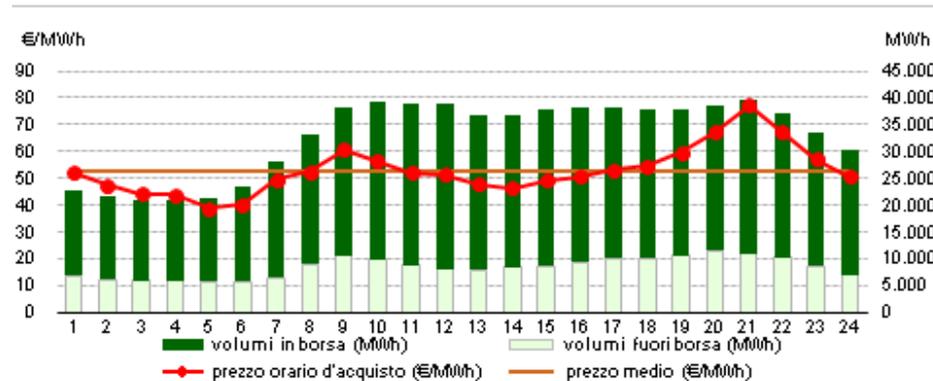


STORAGE SYSTEM

❑ Optimisation of the self-consumption profile



❑ Optimisation of the sale (selling with daily peak price hours)



❑ Provide energy on demand



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AND
AGRICULTURE:
AGROVOLTAICO®**

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THANKS FOR YOUR ATTENTION

Rem Tec srl

Via dei Tigli 4, 46040, Casalromano (MN)

Tel. 030 5234383

info@remtec.energy - www.remtec.energy