

# **WSW ENERGY**

solar installations



# COMPANY PROFILE

## Who we are

WSW is an acronym referred to wind, sun and water, sources of renewable energies and life. WSW Energy, founded in 2015, is originated from a worthwhile collaboration of a team of companies that are working successfully since years in the branch of renewable energies and industrial plants. WSW Energy designs, furnishes and installs photovoltaic systems, wind turbines and systems for water extraction and purification powered by renewable energy, sure about the need of promoting a fast orientation towards the widespread use of this sources, alternative to standard solutions based on not renewable sources, which since time demonstrate themselves as the cause of environment instability, economical imbalance and social tension on national and international scale.

## Our mission

*“Expertise, professional ethics, flexibility and kindness”*

The choice of renewable energies offers a wide range of applications, going from little systems that can be used in off-grid situations unto high performances photovoltaic or Aeolic systems, in off-grid or on-grid installations, able to provide energy for housing and industrial complexes. The professional skills of WSW Energy team, built in years of technical development and commercial activities, integrate efficiently in the planning of services starting from the design and research of products, going through a network of market qualified suppliers, on to the installation of the systems for the end-user, assuring a low environmental impact, a generalized abatement of costs and an accurate local service providing.

## Products

The products marketed by WSW Energy are:

- Photovoltaic systems on residential and industry buildings
- Photovoltaic systems on ground
- Micro-wind farms
- Energy storage systems for off-grid installations
- Submersible pumps, powered by solar or wind energy, for water extraction from boreholes and basins
- Shelter and containers for installation and protection of devices.



# CASE HISTORY

**Customer: ECA TECHNOLOGY s.r.l.**

**Location: ASSEMINI (CA) ITALY**

**Year: 2011**

**Typology:** rooftop photovoltaic system, total power 7.730 kWp.

**Provision:** 34.355 polycrystalline panels (230Wp/panel) on an aluminum structure fixed on the roof.

**DC-AC conversion:** one main Medium Tension cabin and seven secondary MT/BT cabins with a Fronius Inverter.

**Annual Production:** 5.970.000 Kwh.

**Installation time:** 18 weeks.



**Customer: SC FOTOSOLAR**

**Location: VALEA CALUGAREASCA - PRAHOVA - ROMANIA**

**Year: 2015**

**Typology:** ground photovoltaic system on a phosphates disused landfill, total power 5MWp.  
**Provision:** 20.000 polycrystalline panels (250Wp/panel) on an aluminum structure fixed to the ground with concrete blocks.

**DC-AC conversion:** one main Medium Tension cabin and four shelters with a 1.250kWp So-  
comec Inverter.

**Annual Production:** 5.970.000 Kwh.

**Installation time:** 15 weeks.



**Customer: SIL s.r.l.**

**Location: MONTEGALDELLA (VI) ITALY**

**Year: 2011**

**Typology:** ground photovoltaic system, total power 894kWp.

**Provision:** 6.380 amorphous panels (140Wp/panel) on a steel structure fixed to the ground.

**DC-AC conversion:** one main Medium Tension cabin and two secondary cabins with a 400kWp Socomec Inverter.

**Annual Production:** 1.108.000 Kwh.

**Installation time:** 12 weeks.



**Customer: ECA TECHNOLOGY s.r.l.**  
**Location: SAN GIULIANO MILANESE (MI) ITALY**  
**Year: 2013**

**Typology:** photovoltaic system on an existing roof, total power 732 kWp.  
**Provision:** 3.184 polycrystalline panels (230Wp/panel) on aluminum structure fixed on the roof.  
**DC-AC conversion:** Medium Tension cabin and one shelter with a 664kWp Fronius Inverter.  
**Annual Production:** 836.000kWh.  
**Installation time:** 18 weeks.



**Customer: BEL ENERGY s.r.l.**  
**Location: SAREGO (VI) ITALY**  
**Year: 2013**

**Typology:** photovoltaic system on an existing roof, total power 180 kWp.  
**Provision:** 720 polycrystalline panels (230Wp/panel) on aluminum structure fixed on the roof.  
**DC-AC inverter:** seven ABB Inverters, total 178kWp.  
**Annual Production:** 207.000 kWh.  
**Installation time:** 2 weeks.



# OTHER INSTALLATIONS

Location	Power KWp	System	Modules	Yearly production	Installation time
Macomer (NU) ITALY	2.653.000	Roof top	11.792 REC Solar 230W	3.952.970 Kwh	12 weeks
Cavarzere (VE) ITALY	2.500	Roof Top	10.000 Sun Earth 250wp	2.927.500 Kwh	6 weeks
Sandrigo (VI) ITALY	502	Roof Top	2.136 Trina Solar TSM PC05 235 wp	552.200 Kwh	1 week
Cornedo (VI) ITALY	196,8	Roof top	875 REC Solar 225W	264.600 Kwh	3 weeks
Trissino (VI) ITALY	100	Roof top	460 REC Solar 225W	125.000 Kwh	2 weeks
Lonigo (VI) ITALY	99,82	Roof top	434 Sun Earth 230W	104.790 Kwh	2 weeks
Valea Calugelasca ROMANIA	5.500.000	Land field	22.900 Photowatt 240W	6.875.000 Kwh	15 weeks
Isola Rizza (VR) ITALY	997,92	Land field	4.242 Yingli Solar YI235P 29b	1.147.600 Kwh	6 weeks
Orgiano II (VI) ITALY	997,92	Land field	4.242 Yingli Solar YI235P 29b	1.147.600 Kwh	5 weeks
Vigonza (PD) ITALY	993,6	Land field	4.320 Rene Solar 230W	1.261.110 Kwh	6 weeks
Boara Pisani (RO) ITALY	990	Land field	4.400 Trina Solar 225W	1.026.000 Kwh	6 weeks
Pavia ITALY	974,28	Land field	4.236 REC Solar 230W	1.198.020 Kwh	6 weeks
Piacenza ITALY	562,28	Land field	2.440 REC Solar 230W	719.360 Kwh	5 weeks





## SHELTERS AND CONTAINERS

Shelters and containers are mobile unities suitable for installation and protection of command and control devices for medium and large sized plants. They can include medium voltage cells, HMI systems, inverters, transformers and distribution panels.

Set on a concrete basement, assembled on site, the shelters are built with insulated sandwich panels of various sizes, with zinc-coated steel, prefabricated, easily assembled and fitted for the interiors in a later time. The containers, available on the ISO sizes of 20 or 40 feet, are made of metal sheet, fitted on the interior with insulated panels. The floors are built with strong load-bearing and lifting aluminum plates.

Both guaranties a high resistance in all the different weather and climatic conditions, are easily transportable by land, by rail and road, complying with the international standards of lifting, dragging and fixing issues.

