



2EN

renewable energy
services & applications

SOLAR



Car **P**orts



Sun is everywhere. Benefit from solar power and produce clean energy.

Industries, factories, malls, super markets etc, usually have open area parking spaces to serve their customers' need for parking.

Solar CarPorts could combine

- ✓ Selling energy to the grid
- ✓ Shading
- ✓ Rain protection
- ✓ Collecting rain water

Solar CarPorts could sell energy under:

- FITs (Feed In Tariffs) Schemes
- Net Metering which means simply selling the energy back to the grid with the same price that the kWh is purchased by the consumer.

Indicated especially for industrial buildings where usually the roofs are full of air vents, central air-condition units, light tubes and other obstacles which cover most of the area.

2EN SOLAR CarPorts

2EN [Enallaktiki Energiaki SA] offers robust steel structures with modern design which are compatible to any photovoltaic module. The modules can be placed either landscape or portrait and the tilt angle can vary on demand according to the project specifications.

Design & Production

2EN SOLAR CarPorts are designed, analyzed and produced in our facilities. All products are designed according to EUROCODES or any other National Norm requirements.

2EN uses revolutionary modern 3D design software and FEM analysis to visualize and test the structures in every detail.

Our facilities are equipped with the state-of-art machinery in order to produce robust products with dimensional accuracy and great quality.

Turn-key projects

2EN undertakes turn-key projects offering:

Procurement

- Solar modules
- Inverters
- Mounting accessories
- Cables or Mainboards

Construction

- Foundation
- Components installation
- Electrical works

An experienced group of engineers and workers will visit your facilities and install the steel structure and the PV array delivering a functional SOLAR CarPort meeting your expectations.

Pre-fabricated solutions

2EN undertakes the study to perfectly match your area with Pre-fabricated solutions.

Final design will include:

- Optimal sizing
- Structural analysis
- Certifications
- Foundation design and analysis

Custom-made solutions

Additionally to the pre-fabricated SOLAR CarPorts, 2EN can offer custom-made solutions tailor made to fit customer's needs.

These include:

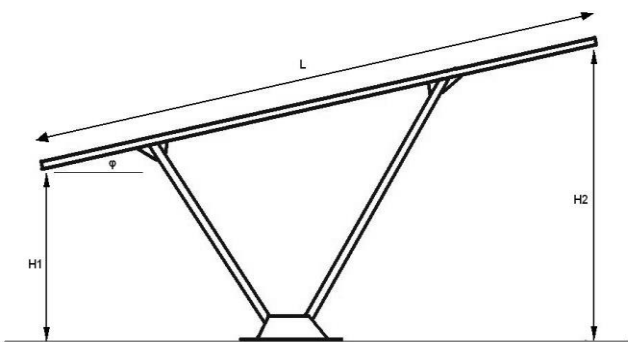
- System Design
- Architectural concept
- Optimal sizing
- Structural analysis
- Certifications
- Foundation design and analysis
- Best component matching
- Vast Energy production

2EN is also subcontracting coatings to fit customer's demand on final surface hue, or any other RAL CODE.

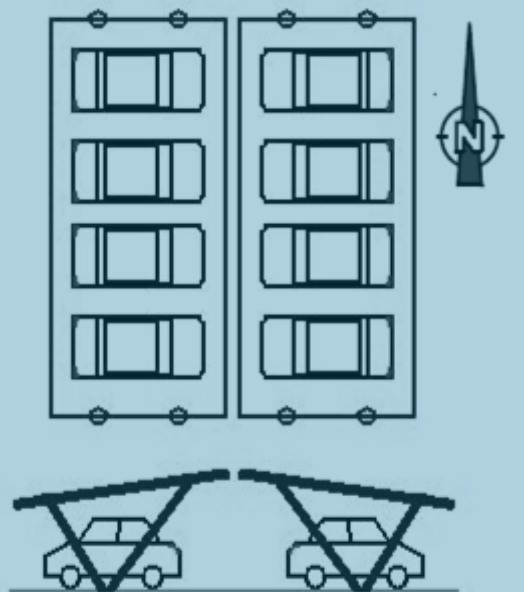
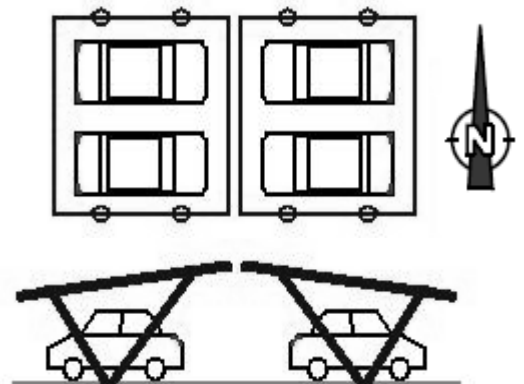
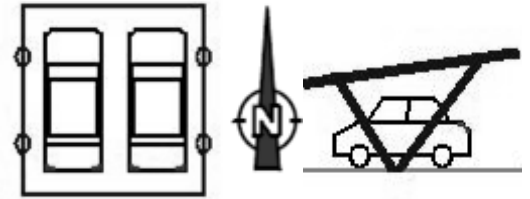
Technical Specs

- Steel components for the structure of the carport and steel or aluminum mounting system for the photovoltaic modules.
- The 'roof' of the carport consists of 4 rows of modules placed portrait.
- The tilt angle of the carport can be 10, 15 and on demand 20 degrees.

DIMENSIONS			
Angle	H1(m)	H2(m)	L(m)
10°	2.5	3.65	6.8
15°	2.3	4	6.8
20°	2	4.25	6.8



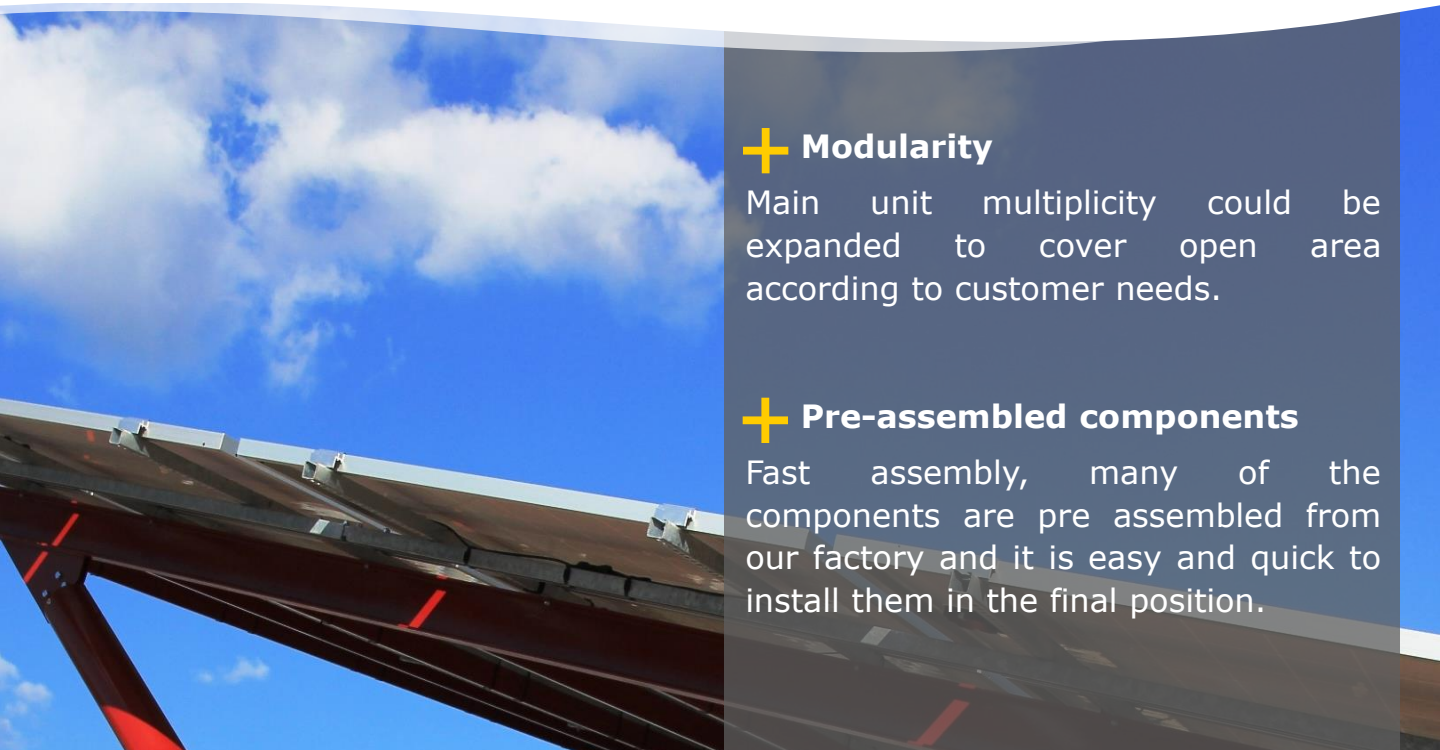
Modular design allows easy expansion creating various solutions.





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+ Modularity

Main unit multiplicity could be expanded to cover open area according to customer needs.

+ Pre-assembled components

Fast assembly, many of the components are pre assembled from our factory and it is easy and quick to install them in the final position.

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green initiatives

Not only businesses delivering green products and services, but also environmentally friendly and socially responsible organizations win recognition in global market.

2EN helps you follow sustainability initiatives and implement green processes and practices.

2EN SOLAR CarPorts can easily be used as charging stations for electric vehicles, contributing to the green image of your company.

2EN SOLAR CarPorts give you an extra benefit when combined with a drainage system and reservoirs for water storage.

Collect easily rain water and use it for various applications like plants irrigation, car washing, etc.

