



ENERGIZE

Modular Solar Halls

We energize the future

www.energize.rs

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About ENERGIZE

ENERGIZE is a company that is a pioneer and leader in the field of building turnkey solar photovoltaic power plants in Serbia.

Since our founding in 2012, we have achieved:

- **90+ MWp** of installed photovoltaic power plants
- **40+ MWh** of storage solutions
- **250,000+** photovoltaic modules
- **1,500+** inverter units
- **60,000+** battery blocks
- **500,000+** low-voltage equipment units
- **300+** production process protection systems
- **200+** solar LED lighting locations
- **150+** functional facilities

We treat every investment as our own, evaluating each project using the Total Cost of Ownership (TCO) principle as a mandatory part of the assessment, with an operational horizon of 30+ years.

We provide our clients with the highest quality equipment and services, specialized engineering expertise, and the best warranty coverage available on the market.



Contents

Enclosed or open, compact or large, with a solar roof that produces electricity for your operation from day one. A modular hall is a workspace that goes up fast, grows with the business and relocates when the business moves.

Modular Solar Halls

What is a Modular Hall

Configurations

Dimensions and Growth

Integrated Solar

Application

Advantages

A Hall That Works

A modular hall is a functional work and storage space with a roof that carries solar panels. The intended use determines everything else: the layout, the size and how enclosed the building is.

A hall can be fully enclosed, partially open or open, depending on what it is used for. The sides adapt to the function, not the other way around. Even when it is open, it remains a working building where goods are produced and stored and equipment is managed.

In every variant the roof is engineered to carry solar panels, so the space serves its purpose and produces energy for the operation at the same time.

The use defines the hall.

A solar roof comes with every variant.



With Sides Or Without

The hall adapts to its purpose. sides are not mandatory, and they can be added or removed later as the business changes.

- **Enclosed:** All four sides closed, for storage, workshops and spaces that need protection from outdoor conditions.
- **Partially Open:** Part of the sides closed and the rest open, for flow-through processes, loading and unloading.
- **Open:** A roof on columns, without sides, for covered work and handling zones that need shade and protection from rain, with a solar roof.

The sides are clad according to the purpose, from a light membrane to a solid insulated cladding. The wall type is chosen based on how much protection, insulation and light the space needs:

- **White Membrane:** A standard PVC membrane, light and quick to install, lets daylight into the space.
- **Coloured Membrane:** The same PVC membrane in a chosen colour, to match a visual identity or reduce light transmission.
- **Trapezoidal Felt-Backed Sheet Metal:** A sturdier metal cladding with felt on the inner side, more durable and with better condensation control.
- **Sandwich Panel:** The most robust cladding with thermal and acoustic insulation, for spaces that need a stable indoor environment.
- **Glass Walls (Partially or Fully Glazed):** Showrooms, Greenhouses, and Hospitality Venue Gardens



The cladding, height and equipment of the hall are determined through the free feasibility study.

Regardless of the configuration, the roof is always engineered to carry solar panels.

From A Compact Module Upwards

The Hall Is Configured To Measure: You choose a width of 10, 15 or 20 metres, a length from 10 to 50 metres in 5-metre steps, and a height from 3 to 5 metres. The smallest hall starts at around 100 square metres, while larger footprints are achieved by adding modules, with no need for new foundation works.

Width	10, 15 Or 20 m
Length	From 10 to 50 m, in 5 m steps
Height	3, 4, 4.5 or 5 m
Floor Area	From around 100 M ² upwards, depending on the chosen dimensions
Structure	Aluminium, light and demountable
Sides	Optional: Enclosed, partial or open
Expansion	By adding modules: sideways, in a row or in an L-layout
Wall Type	White membrane, coloured membrane, trapezoidal felt-backed sheet metal or sandwich panel
Doors	Sliding, sectional or garage, number as required
Additional Equipment	Windows, ventilation, insulation
Roof Options	A second membrane layer on the roof, an option for a 10 m wide hall
Roof	Load-bearing, engineered for solar panels

The structure is engineered for expansion from the start, so a new module is added without touching the existing part. Aluminium is light and demountable, which means the hall can also be relocated when the business changes address.

A Roof That Produces Energy

The hall roof is engineered to carry solar panels from day one. The power is sized to the modules currently installed and grows together with the hall when a new section is added.

The roof solar system has a power density of 188.80 Wp/M². For example, a hall with around 500 M² of roof reaches about 94 KWp of installed power.

The energy produced is used on site, by consumers in the hall itself and the surrounding operation. This reduces reliance on the grid and on a generator, and the system expands without a new transformer station.



What It Is Used For

The Modular Hall Is Ideal For Room-Temperature Functions:

- Storage of packaging and dry goods
- Warehouses for equipment and tools
- Garages for the vehicle fleet
- Loading and unloading zones
- Workshops and light manufacturing
- Covered work and handling zones
- Showrooms
- Car Salons
- Greenhouses



Why A Modular Hall

- **Fast Setup:** Operational in a few weeks, not months
- **Functional Space:** A real work and storage building, not an improvisation
- **Energy Independence:** A solar roof that works from day one
- **Flexibility:** It grows, changes configuration and relocates with the business
- **Durability:** An aluminium structure and a system engineered for a long service life

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