

ECOLIBRI

Wind energy, better future



ECOSPHERA

Ecosphera is the name chosen by Ecolibri - a company founded in 2016, specialized in the field of renewable energy - to present a geodesic dome capable of responding to multiple needs on the main international markets. It can in fact be used as:



- temporary housing solution (bedroom with private bathroom) suitable for accommodation facilities (hotels, holiday farms, camping sites, etc.) but also for private use for those who have the necessary space and wish to offer a "Glamping" experience to friends/relatives.
- extra space to be used to expand one's living area, for example as a fitness room, tool shed, warehouse, play area, etc.
- temporary shop to increase the exhibition area of shops, nurseries, sports and / or recreational centers.

As exclusive distributors for Europe of Shelter (a leading company in the production of this type of product), our company is able to offer solutions from 12 to 315 square meters which can be supplied in 2 different versions:

BASIC VERSION

This version is aimed at those users who want to use their geodesic dome as an additional outdoor space to an existing property (e.g., home, shop, restaurant, bar, etc.) without any further need. The "basic version" therefore includes only the Ecosphera (structure + external/internal lining).

GLAMPING VERSION

The "Glamping" project is the real "DNA" of our Ecosphera and allows us to add to the "base" structure all the technology necessary to make the geodesic sphere independent from both an energy and water/service point of view.

Thanks to its business experience, Ecolibri is in fact able to study "On-Grid" and "Off-Grid" solutions that allow the product to be used as an independent and ecologically advanced accommodation unit.

1. ON-GRID - The solution provides for the connection of electricity and water supply services, by connecting to pre-existing networks (e.g., camping/hotel/restaurant etc.).

2. OFF-GRID - The project is based on the provision of electricity and water supply services in a completely autonomous way, thanks to the implementation of photovoltaic panels. Ecosphera in its "Glamping" formula consists of all the technology necessary to allow effective internal lighting, valid air conditioning (heating/cooling) and water supply (hot/cold) for the sanitary facilities inside the structure, thanks to the provision of photovoltaic panels and in complete respect for the environment. The bathroom facilities can only be provided from the 8m size onwards.

SUPPORT BASE

Ecosphera can be supplied with a support base on which to place the structure. This solution is required for all versions and can be supplied by us directly.



DIAMETERS AVAILABLE

4m (equal to 12,56 m ²)	height 2,5 mt
5m (equal to 19,625 m ²)	height 3 mt
6m (equal to 28,26 m ²)	height 3 mt
7m (equal to 38,465 m ²)	height 3,5 mt
8m (equal to 50,24 m ²)	height 4 mt
10m (equal to 78,5 m ²)	height 5 mt
15m (equal to 176,625 m ²)	height 7,5 mt
20m (equal to 314 m ²)	height 10 mt

COVER MATERIAL

- Cover fabric available in the following colors: white, sand & olive green.
- Depending on the diameter of the Ecosphera: 850 g/m² in white / colored PVC - DIN4102 flame retardant, UV resistant, waterproof
- 950 g/m² in transparent PVC - din4102 flame retardant, waterproof
- Wall "windowed" of almost 180 ° to observe the external landscape.
- Matte finish, created for an "eco-friendly" impact with the surrounding environment.
- Operating temperatures: from -40 to +75 degrees
- Expected duration: 5 - 10 years (depends on the actual climatic situation)

STRUCTURE

- Hot-dip galvanized and white powder-coated steel tubes
- Entrance door frame (customizable according to needs)
- 3D3S and SAP2000 tested structural calculation for wind speeds up to 100 km/h and snow load of 0.5 kn/m²



INSULATING COVER

The aluminum insulation and the canvas roof lining ensure thermal comfort inside the dome in practically any weather condition. The cover is made of technical fabric, fiber-free, hypoallergenic and non-irritating, reflective on both sides, with aluminum film.

- Radiation heat reflection coefficient: up to 85%
- 16OZ canvas and 130GSM aluminum foam, eliminating dew humidity
- Thermal conductivity equal to 0.035
- SGS thermal resistance tested (ASTM D1518-14) as 3 clo (0.465 m²K / W)
- Materials resistant to fire, mold, humidity
- Design consisting of several parts combined with each other

CURTAINS

Double Track Curtain Design: Curtain design plan is customized according to the position of the window section.

The selected materials are: blackout cloth, linen, color and upholstery conforming to conventional standards. Fluid opening and closing sliding system.

The curtain lends itself to the usual laundry washing processes; easy to install, replace and clean.

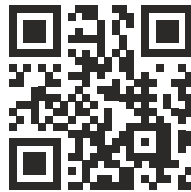
Currently, standardized dome samples are composed of a louvered dome structure, each layer of tubes is located on the horizontal line, which is advantageous for curtain design. The two tracks are on the same horizontal line.

Curtain set:

- Curtain clips + rails
- Fabric color: various types of colors in option
- High quality blackout fabric; lightfastness (> 99%)
- Can be washed at temperatures up to 30 C
- Can be ironed up to 100 C



For further information



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