Photovoltaic kiosks, carports, façades, roofs and canopies

Vidurglass, European leader in glazing solutions, offers innovative and exclusive applications of architectural integration of photovoltaic (PV) solar energy. These provide aesthetic improvements, exclusive positioning and the generation of clean and green energy. The high quality of the finishes, the fulfillment of all safety regulations in the building sector, as well as the wide range of customized design options, guarantee the successful implementation of singular projects according to the highest architectural exigencies.

**KIOSUN VIDURSOLAR**

Kiosun Vidursolar is a photovoltaic kiosk of revolutionary design that generates his own energy in an ecological way, with PV cells integrated in its glazed roof. It offers a covered space by a curved glazed dome with a surface of 50 m².

The high quality of the used materials and the elegant design guarantee an exclusive positioning as well as a modern, ecological and distinctive image.

KIOSUN VIDURSOLAR offers several ways of amortization. The first, thanks to its capacity to generate electricity on-site and provide its own energy needs, avoiding both, the monthly energy cost and the initial works for grid connection. The second, by feeding the generated electricity into the grid decreasing the monthly energy bill.

Ideal for isolated locations like beaches, ski resorts, etc.; protected historic sites where the restrictions for civil works limit the installation of new equipment; urban and rural equipment like public parks, fairgrounds or hotels and tourist resorts, etc.

KIOSUN VIDURSOLAR starts with an initial configuration including refrigeration, lighting and water service. But there are numerous options for customization and integration of additional services:

- Usage of the roof only, as a pergola.
- Total or partial enclosure with sliding doors.
- Integration of kitchen, microwaves, WiFi, rainwater recovery, electrical vehicle charging station, customized glasses (silk screen printing, colour, logos), customized lighting system.

**MODULAR CARPORT VIDURSOLAR**

The VIDURSOLAR CARPORT is an innovative covered parking space with a translucent and water-tight glazed photovoltaic roof integrating high power photovoltaic cells. It is available in modules of 2 parking slots expandable to up to more than 100 parking slots, with enough space for high class tourism. This product offers an exclusive, ecological and distinctive positioning.

The VIDURSOLAR CARPORT offers a wide range of customized options:

- Support structure design and colour.
- Translucent glass colours.
- Customization of the PV-glasses: Screen-printed bands to project texts or logos, translucent glasses, colours, etc.
- Grid connection or autonomous power supply.
- Services’ integration: electrical vehicle recharge stations, lighting, advertising, signposting, etc.
PHOTOVOLTAIC FAÇADES

The latest tendencies in building envelope design are focused on energetically active façades with modern and distinctive design. The façade integration of VIDURSOLAR PV elements allows the architect to create singular buildings with distinctive image, with numerous customized options in terms of colour, shape and selective natural light transmission.

VIDURSOLAR PV glasses act as an excellent multifunctional construction element which unifies aesthetics and ecological image, regulation of the building’s thermal load and generation of clean energy, all in a single element. Additionally, our PV glasses fulfill common construction standards substituting conventional construction elements.

The typical applications are:
- Curtain walls.
- Ventilated façades and rain-screens.
- Canopies.
- Brise-soleils.
- Balustrades.

PHOTOVOLTAIC ROOFS

Skylights, roofs and pergolas are suitable elements for VIDURSOLAR PV glass integration because they allow to extract the maximum efficiency of electrical power. From an architectural point of view, the designer can obtain attractive interior effects by numerous design options offered by VIDURSOLAR PV glasses. An especially appreciated effect of this application is the antiglare properties of VIDURSOLAR PV modules, which creates a pleasant covered space under the attractive shadowing ambiance provided by the PV cells.

An essential point is the use of PVB as an interlayer, that confers to VIDURSOLAR PV glasses excellent anti breakage properties. This is specially important in overhead applications.

PHOTOVOLTAIC CANOPIES

VIDURGLASS takes actively part in photovoltaic technology integration initiatives related to photovoltaic shelters for bus and train stops.

This allows to develop cutting edge PV products for XXI century cities. VIDURSOLAR PV glasses supply enough energy to run all kind of information services.

URBAN EQUIPMENT

Future urban equipment and furniture will be designed in the concepive framework of smart-cities, and will integrate concepts like energy autonomy, sustainability and communication services, always taking care of attractive, innovative and customized designs.

By integrating VIDURSOLAR PV elements these objectives can be met, providing a distinctive image (lighting, signposts, information kiosks, pergolas, EV recharge stations, etc.) to public facilities.