



Who is Brite Solar?

Brite is a nanomaterials company which develops proprietary active and passive coatings utilizing unique deposition techniques. These coatings allow the creation of unique glass products used in a variety of applications. Brite's focus is to use these coatings for managing energy, either in the generation or saving thereof.



Brite Solar, a leader in Agrivoltaics.

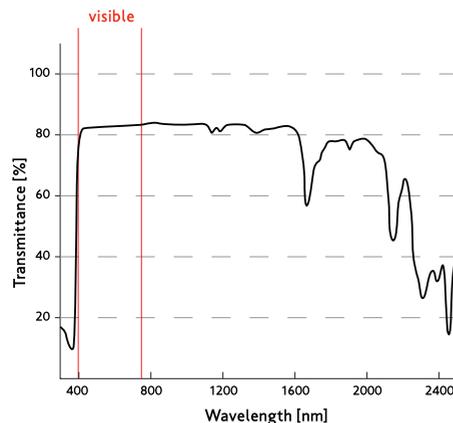
Agrivoltaics, the combination of agriculture and Photovoltaic electricity generation on the same land, is a major development in the optimization of food and energy production worldwide. Brite has developed a specialized glass, called Green Glass, which optimizes the balance between transparency, needed for underlying crop growth, and energy production. Applications for the glass include crop protection structures in open field farming and cladding for the roofs and walls of glass greenhouses.

Both in open field farming and in greenhouses, the generated electricity can offset energy used in agricultural operations, sold to the grid for additional incomes, or a combination of both.

Brite offers a variety of Green Glass products with differing transparency and power capacity to meet the requirements of different crops and different geographical locations.

What is the Green Glass?

The Green Glass combines a high-transparency glass pane with photovoltaic cells covering part of its surface (20-100%), based on the specific needs of a given project, e.g. light demands of the crop underneath it or its placement within a greenhouse. A light-diffusing layer ensures optimal distribution of light in the greenhouse, so as to compensate for the shadows created by the PV cells. Panes

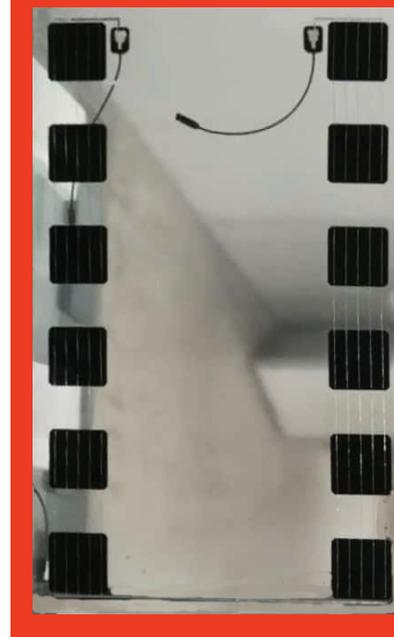


can be produced at various dimensions, thus fitting both existing and new greenhouses, and their installation is as simple as that of conventional glass.

Green Glass is mounted into simple supports to provide a canopy like structure for open field Agrivoltaics. The transparency of the panel allows the panel spacing to be minimized, maximizing protection of the crops from inclement weather, such as hail, torrential rain, frost and high temperatures.

INTERESTED?

We look forward to hearing from you! Contact us and we can together look into the specific case of your own greenhouse, whether already existing or planned, or open field Agrivoltaic installation.



What can the Green Glass mean for the agriculture and energy sectors?

There are roughly 9,000 ha of greenhouses currently in the Netherlands. Brite's Green Glass on their roofs would generate more than 3,600 GWh/year. This is the equivalent of the electricity consumption of some 1.3 million Dutch households or 55% of the overall electricity consumption of the Dutch greenhouse sector.

In open field Green Glass installation on 50% of the EU grape growing area (3.1M ha) would generate 1M GWh of electricity per year reducing CO2 emissions by 677M tons/year.



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