



# Who is Brite Solar?

At its core, Brite is a nanomaterials company, utilizing innovative materials and deposition techniques in order to deliver a new generation of glass products for various applications in construction. These products can either save or generate energy.



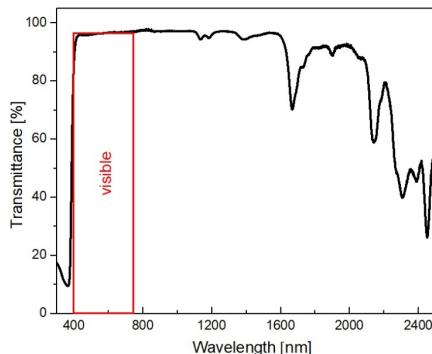
## What is Brite Solar's connection to the greenhouse world?

While greenhouses are extremely efficient in terms of crop yields and water consumption, they have high energy demands. Brite is working on energy-producing glass panels for the replacement of traditional glass in greenhouses so as to convert them into energy-generating facilities that can cover -at the very least- a large part of their electricity demands by themselves with solar energy.

After initially experimenting with the Dye Sensitized Solar Cell technology and successfully demonstrating it in the hydroponic cultivation of tomatoes, Brite has developed a newer generation of glass for greenhouses, Green Glass, for even higher transparency and power outputs.

## What is the Green Glass?

The Green Glass combines a high-transparency glass pane with photovoltaic cells covering a small part of its surface (ca. 20%). 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



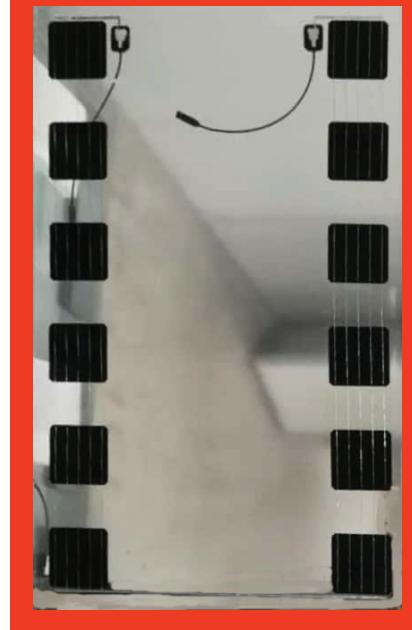
dimensions, thus fitting both existing and new greenhouses, and their installation is as simple as that of conventional glass. Versions with more PV cells per panel -less transparent but more powerful- can also be offered for non-productive areas of the greenhouse, where light availability is not a limiting factor.

## What can the Green Glass mean for the greenhouse sector?

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. It should be noted that the latter increased by 127% in the 2010-2017 period, owing to increased lighting, automation, and mechanization.

## 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 for construction.





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