



RICHEL[®]
GROUP

PHOTOVOLTAIC POLY GREENHOUSE

RICHEL SOLAR

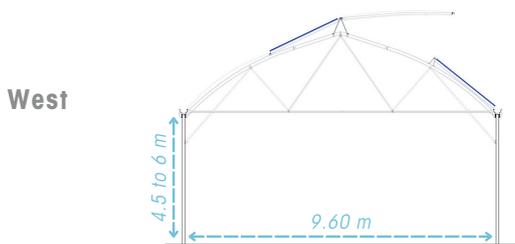


 **MADE IN
FRANCE**



Richel Group positions itself as an essential partner for **cultivating crops while generating watts** through the photovoltaic poly greenhouse: a diffusing film, flexible positioning of roof panels and an **adaptable shading ratio**.

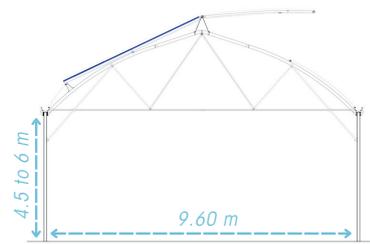
RICHEL SOLAR solves a challenging equation: sustainable, local production of fruits and vegetables, coupled with green electricity generation.



1 row of panels on 1 or 2 sides

Orientation : East/West

Significant light entry, well distributed over the zenithal (possible option: double inflatable walls).



2 rows of panels on one side

Orientation : West (potentially South)

Significant sunlight in the morning, when the plant is most receptive and shading in the afternoon to prevent overheating and delay or eliminate seasonal whitening.

Versatile configurations:

- Shading (from 16 to 42%).
- Perfect integration and variable arrangement of roof panels.
- Different orientations of the greenhouse.
- Option: crop supports and/or hanging gutters.

RICHEL SOLAR is able to offer **more than 20 mol/m²/day from May to August** with a configuration of 32% shading facing west.*

The optimal placement of panels and the high-diffusion plastic film covering ensure a **light uniformity of over 93%***

In west-facing configurations, **between 55% and 60% of the DLI** (Daily Light Integral: the amount of light received by the plant in a day) enters the greenhouse before noon*.

-  Optimization of **morning light penetration**,
-  Protection against afternoon overheating, preventing whitening.

An ideal combination.



Light



Electrical production



Crop yields



Energy saving

*Results of a study on the photosynthetic radiation captured by a Richel Group plastic greenhouse equipped with photovoltaic panels. The study was conducted in the city of Agen (France) by an independent organization.

