



Visit TSE's first crop shading system at Chadeleuf (63)

Project overview

Crops
growing field crops and
aromatic plants

UAA
82 ha

Farming method
Simplified cultivation
techniques and soil
conservation agriculture



0.76 ha
of fenced area



Inter-row spacing:
15 m



392 modules
Installed power
278 kWp



Coverage
rate of
34.5 %



Dynamic panels
on trackers
Max height : **4.65 m**



An experimental
agronomic
protocol carried
out on the plot

Crop shading system

Crop shading system improves agro-climatic conditions for crops while producing green energy. Partial and rotating shading limits the climatic stress to which crops are subjected, thus preserving their agronomic potential.



Key technical points of the solution

- Solution adapted to all major crops
- Minimal footprint and approximately 30% density for optimized cultivated surface
- Active control panels generating partial and rotating shade that protects crops against climatic hazards (drought, high temperatures, excess light, frost)
- Smart technology-based solar panels meet the agro-climatic needs of crops and the needs of farmers
- Compatible with agricultural machinery up to 15 meters high
- Possibility of equipment subsidies
- Possibility of integrating an irrigation system

The agronomic benefits of partial and rotating shading



Lower temperatures on the plot and protection against excessive light in summer



Limiting evapotranspiration, water stress and saving water



Reduced risk of spring frost

→ These actions help enhance the agronomic potential of plots and smooths the agricultural yields.

Who is TSE ?

TSE, the French benchmark in agrivoltaics

TSE is a French Tech company and one of France's leading solar energy producers, a benchmark in photovoltaics and agrivoltaics. As a local company, we develop and operate innovative solutions to produce the least expensive carbon free electricity in the heart of our communities.



Independent French photovoltaic expert since 2016



More than 270 employees working as close as possible to communities all over France



2.5 GWp under development in France



A team of experts of the agricultural world to support farmers and develop the most appropriate solutions



Winner of the 2025 French Tech 120 program

Meet our team on our stand in **Hall 2 - B48**