

AGRICULTURE

Brite



SAMPLE OF
AGRIVOLTAICS
PROJECTS



AGRI – PV

PEACHES

Imathia, Greece



Type: 69% Transparency – 200 Wp
Installed Power: 89 kWp

The layout of the panels provides partial shading, which helps regulate the microclimate and protects the trees from extreme weather. At the same time it reduces soil evaporation and collects rain water, so it improves irrigation efficiency.



AGRI – PV

CHERRIES

Bucharest, Romania



Cherry trees growing beneath agrivoltaic structure remained protected during severe frost events.





**Type: 100% Transparency – 0 Wp
and 80% Transparency – 120 Wp
Installed Power: 8.88 kWp**

The first type of panels produces 0% electricity and functions as specialized glass with AR-H coating (Anti-Reflective & Hydrophobic). These panels are designed primarily for crop protection, shielding orchards from extreme weather conditions while maintaining high light transmission for the trees. Alongside them, the second type of panels generates renewable electricity while still allowing sunlight to reach the crops below.



GREENHOUSE

Hydroponic

MICROALGAE

Fthiotida, Greece



Type: 54% Transparency - 300 Wp
Installed Power: 55.5 kWp

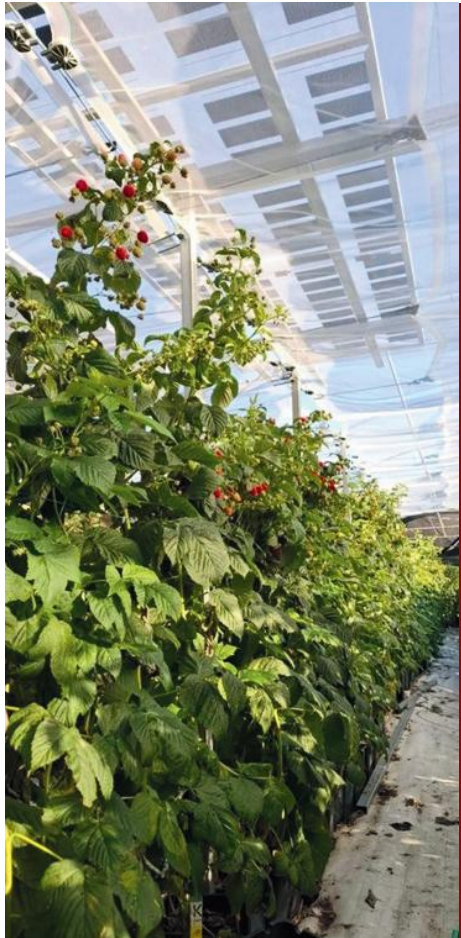
Brite Solar has installed an Agri-PV system on the roof of the hydroponic unit, providing controlled shading that stabilizes temperature and microclimate conditions for microalgae cultivation. At the same time, the system generates clean energy to meet the biotechnology facility's energy requirements, reducing its environmental footprint.



AGRI – PV

RASPBERRIES

Chandria, Cyprus



Type: 54% Transparency – 300 Wp
Installed Power: 11.1 kWp

Raspberries are considered heat-sensitive crops, particularly in Mediterranean climates, where extreme temperatures can stress plants and reduce fruit quality. Observations from the project indicate a considerable increment in yield, particularly during the summer period when heat stress typically affects raspberry production.



AGRI – PV NECTARINES

Agros, Cyprus





Type: 54% Transparency – 300 Wp

The project is separated into three distinct installations:

- Installation 1: 10.2 kWp
- Installation 2: 10.2 kWp
- Installation 3: 20.4 kWp

Situated at an altitude of 800 meters, this installation integrates renewable energy generation with fruit production using Brite Solar's technology.



GREENHOUSE

Hydroponic

TOMATOES

Ptolemaida, Greece



Type: 77% Transparency - 115 Wp
Installed Power: 46.92 kWp

A hydroponic cultivation of tomato by an established producer of tomatoes and various greens. A net metering scheme is implemented for the electricity produced by the photovoltaic roof system.



AGRI – PV

APPLES

Brdo pri Lukovici, Slovenia





**Type: 70% Transparency - 200 Wp
and 54% Transparency - 300 Wp
Installed Power: 52 kWp**

The installation required no tree removal or concrete foundations, ensuring minimal land impact.

Benefits

- Reducing heat stress
- Frost and hail protection
- Improved fruit quality

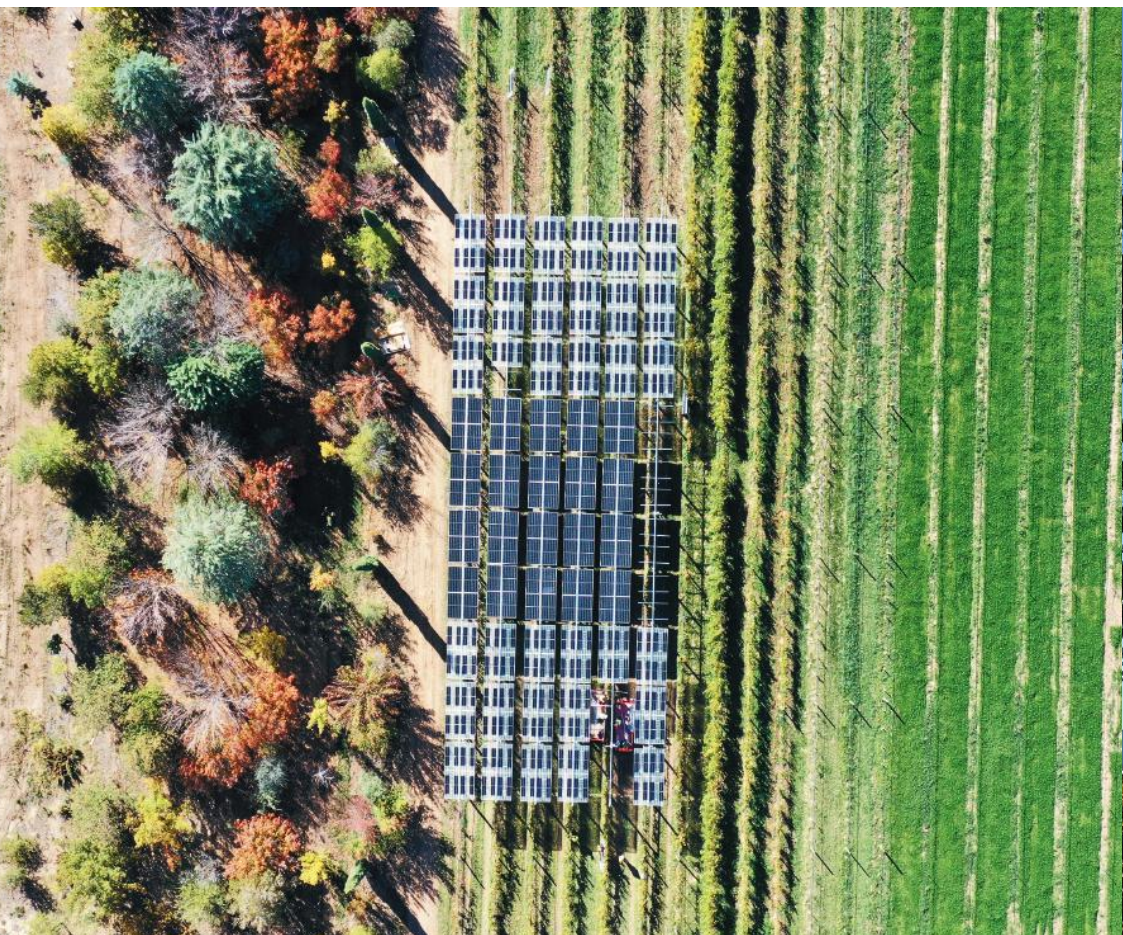


AGRI – PV

VINEYARD

Colorado, United States

Western Colorado Research Center of Colorado State University.



Type: 60% Transparency – 260 Wp
Installed Power: 37.44 kWp

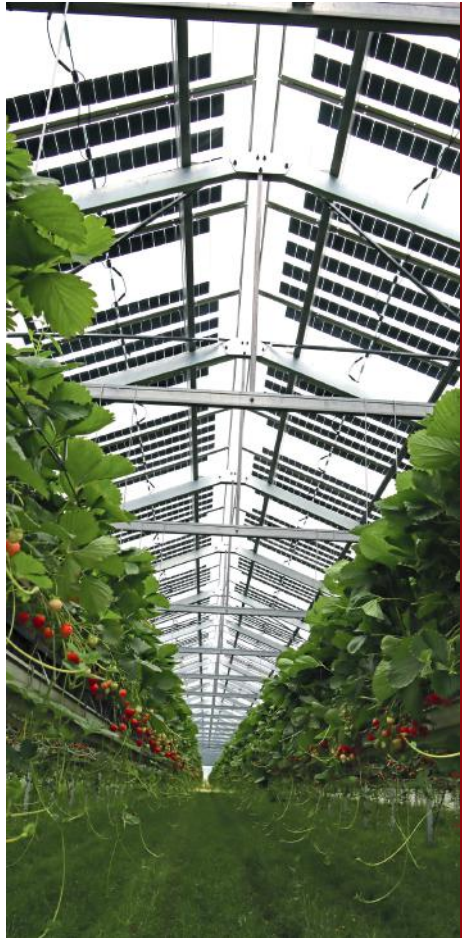
The vines continue to grow beneath the structure while the installation produces renewable energy. Initial measurements suggest that nighttime temperatures beneath the panels may be warmer than the surrounding open field, with differences greater than 3°C on calm nights. This is notable because frost is widely recognized as a major challenge for grape and tree fruit production in the region.



AGRI – PV

STRAWBERRIES

Senden, Germany



**Type: 77% Transparency - 115 Wp
and 49% Transparency - 250 Wp
Installed Power: 190.50 kWp**

Farmer highlighting one of the key reasons behind installation: open-field strawberry cultivation in Germany suffered crop losses of up to 50 % due to climate extremes long periods of heat, and heavy rainfall severely affected yields. By installing solar modules above the crops, the farm not only aims to stabilize production but also to achieve energy independence.



AGRI – PV

BLUEBERRIES

Broekhuizen, The Netherlands



Integrated gutters collect rainwater for irrigation.





Type: 40% Transparency – 240 Wp
Installed Power: 12 kWp

The farmer highlighted a key challenge: open-field cultivation had experienced crop losses of up to 30% due to heat stress and hail. By installing solar modules above the crops, the goal is to reduce weather-related risks while moving towards greater energy independence.

GREENHOUSE **VINEYARD**

Agios Pavlos, Greece



**Type: 80% Transparency - 32.5 Wp
and 80% Transparency - 65 Wp
Installed Power: 39.26 kWp**

This project has been focused on studying the cultivation of wine grapes within the protected environment of a glass greenhouse, aiming at adapting viticulture to the changing climate conditions and even achieving a double harvest of grapes annually.



GREENHOUSE ORNAMENTAL PLANTS

Naaldwijk, The Netherlands





**Type: 77% Transparency - 115 Wp
Installed Power: 12 kWp**

Research has been conducted on the performance of various ornamental plants cultivated in a greenhouse environment with a photovoltaic roof system under Dutch climate conditions.



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