

# FEED CITIZENS & THE GRID

## PROJECT PARTNERS



Schweizerische Eidgenossenschaft  
Confédération suisse  
Confederazione Svizzera  
Confederaziun svizra

Swiss Confederation

Federal Department of Economic Affairs,  
Education and Research EAER  
**Agroscope**



©Matthias Baumann, Agroscope

*Supported by the Swiss Federal Office of Energy (SFOE)*



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Bundesamt für Energie BFE  
Office fédéral de l'énergie OFEN



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Innosuisse – Agence suisse pour  
l'encouragement de l'innovation



## PROJECT IN BRIEF

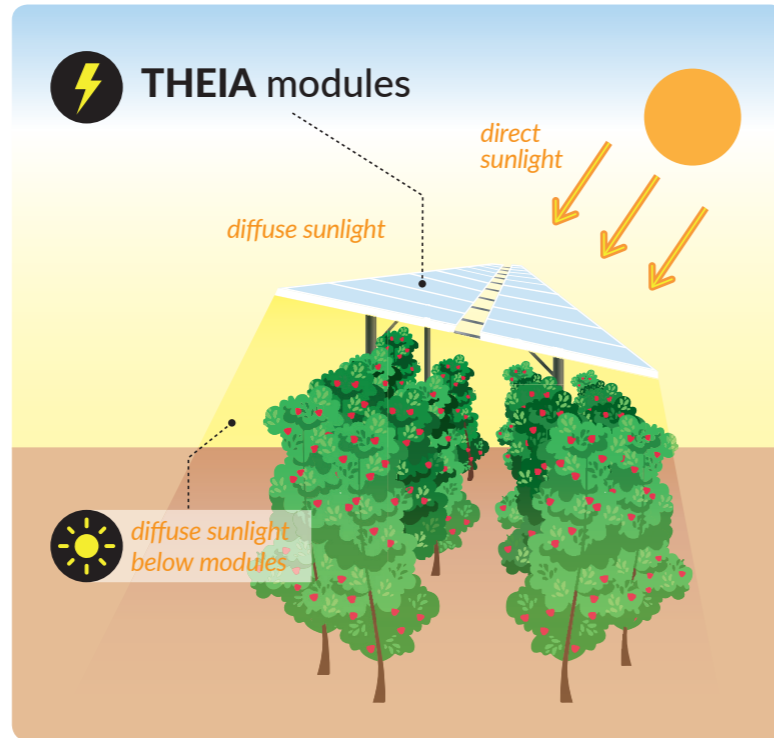
insolagrín - Conthey (VS) is a 165 m<sup>2</sup> agrivoltaic pilot installation that demonstrates the replacement of agricultural plastic tunnels by solar modules. The pilot is installed on top of raspberries and strawberries in Conthey (VS), at the heart of a major fruit production region in Switzerland.

More than a simple solar installation, insolagrín is a new tool for farmers. It enables dynamic adjustment of light, optimizing crops' growth over seasons and variable climatic conditions. The excess sunlight is harvested into electricity, enabling a dual use of land - without tradeoffs.

The project is led by 3 partners, who combine key areas of expertise.

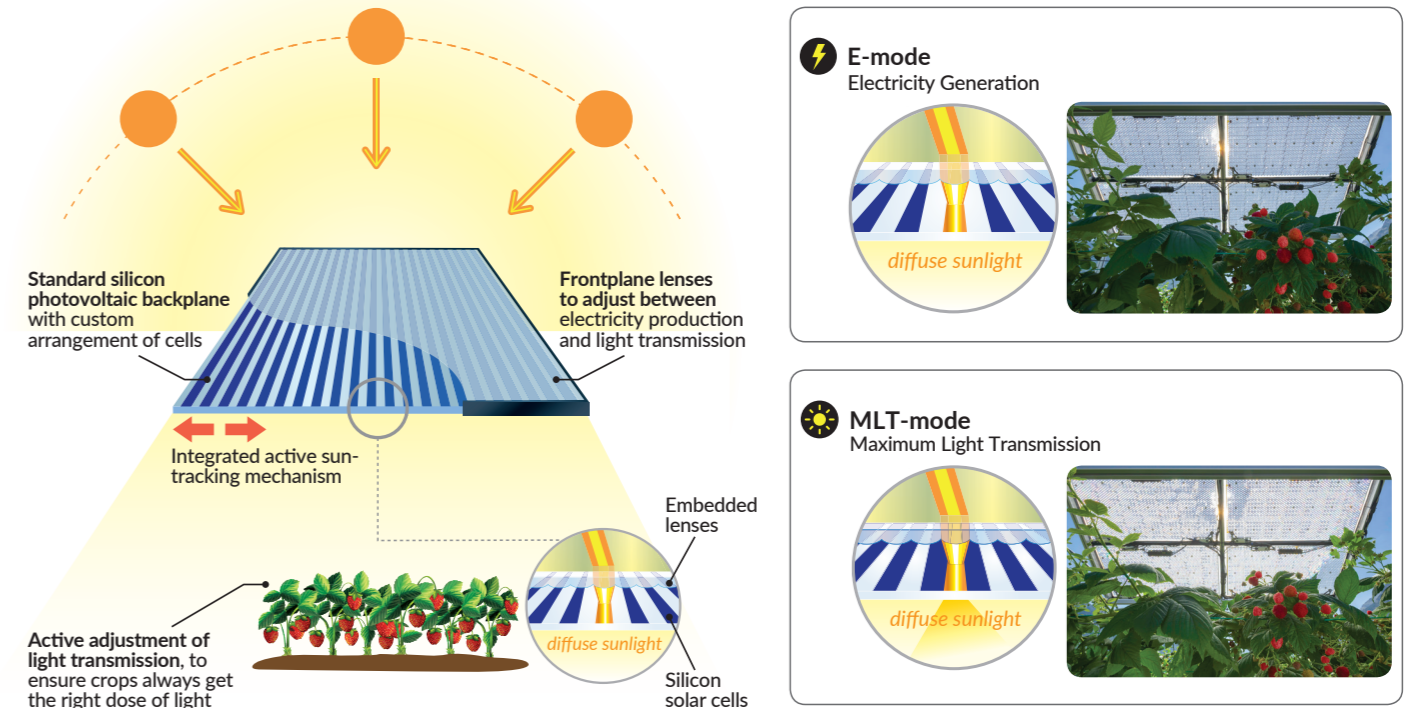
Insolight provides the solar modules and the control system based on the THEIA technology, combining efficiency and adjustable translucency. The energy output is quantified by Romande Energie, who has built and operates the agrivoltaic installation. The impact on crop yield and quality is assessed by Agroscope, the Swiss federal centre of excellence for research and development in the agriculture, food and environment sector.

The project is supported by the P+D programme of the Swiss Federal Office of Energy (SFOE), Innosuisse and CSEM started in June 2021 and will last 4 years. The detailed energy yield and agronomic results will be instrumental to open large deployments: Berries alone represent > 220'000 Ha in Europe - equivalent to a > 300 GW<sub>p</sub> potential.



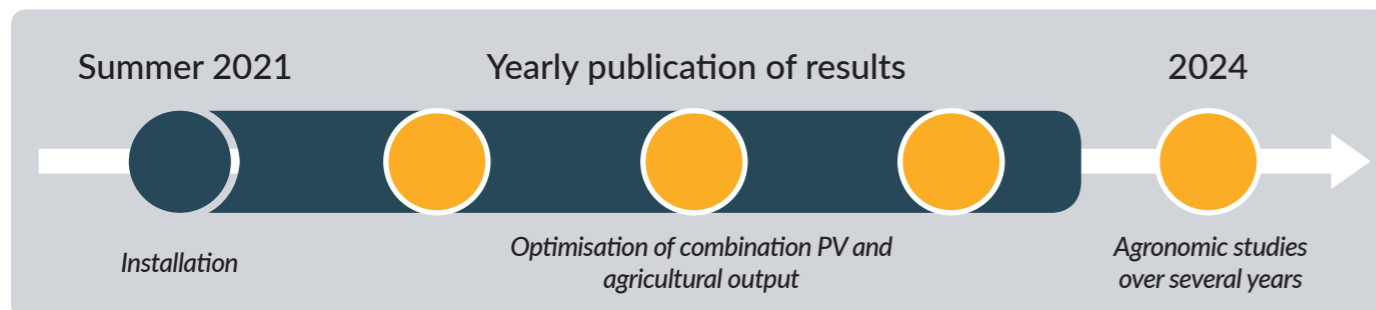
## THEIA TECHNOLOGY

Insolight's solar modules are based on the THEIA technology (Translucency and High Efficiency in Agrivoltaics). They provide dynamic shading on static structures.



## PROJECT KEY FACTS

Location	Conthey, Switzerland
Crops	Raspberries and strawberries
Agrivoltaic surface	165 m <sup>2</sup>
Solar capacity	18 kW <sub>p</sub>
Energy produced	Up to 18'000 kWh per year
Agricultural yield	Up to 2'400 kg per year



## IMPACT

There is an increasing competition for land between food production and solar power. This project aims to solve this dilemma, by leveraging the use of solar modules as shading systems.



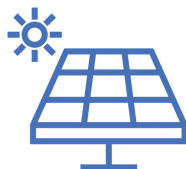
# EAT FRUIT, SAVE CARBON!



Addressing 3 pillars of the European Green Deal at once



Achieving Climate  
Neutrality



Clean, Reliable and  
Affordable Energy



Farm to  
Fork

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