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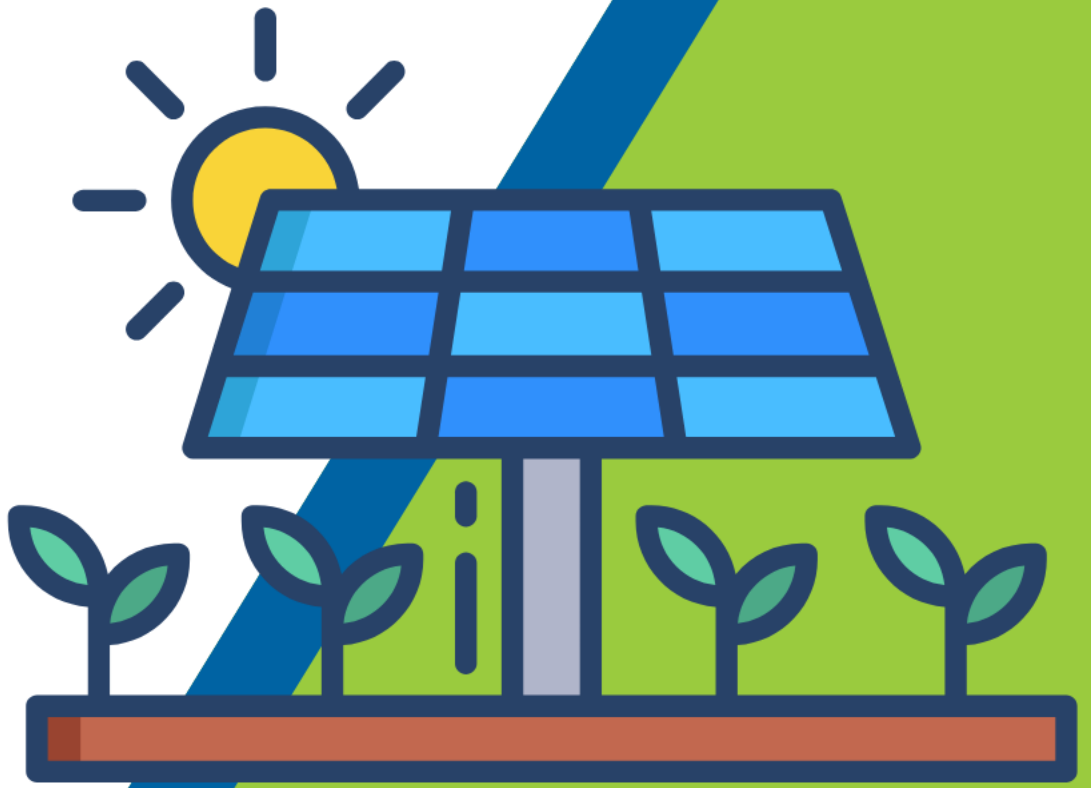
ELETTROTECNICHE ED ELETTRONICHE

La giornata dell'agrivoltaico: l'impatto del DLGS Testo Unico FER e del DL Ambiente



28 novembre 2024
Hotel Splendid Royal
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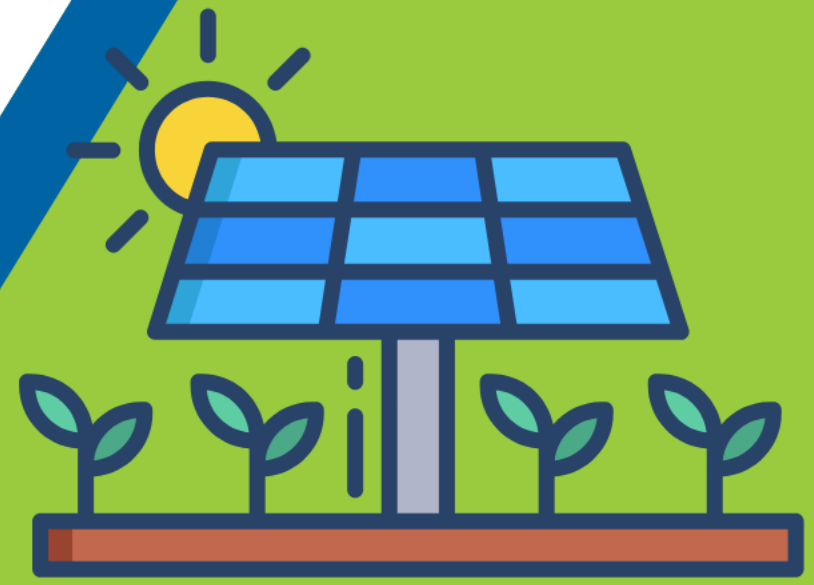
European agrisolar initiatives

Lina Dubina
Policy Advisor for Sustainability at SolarPower Europe



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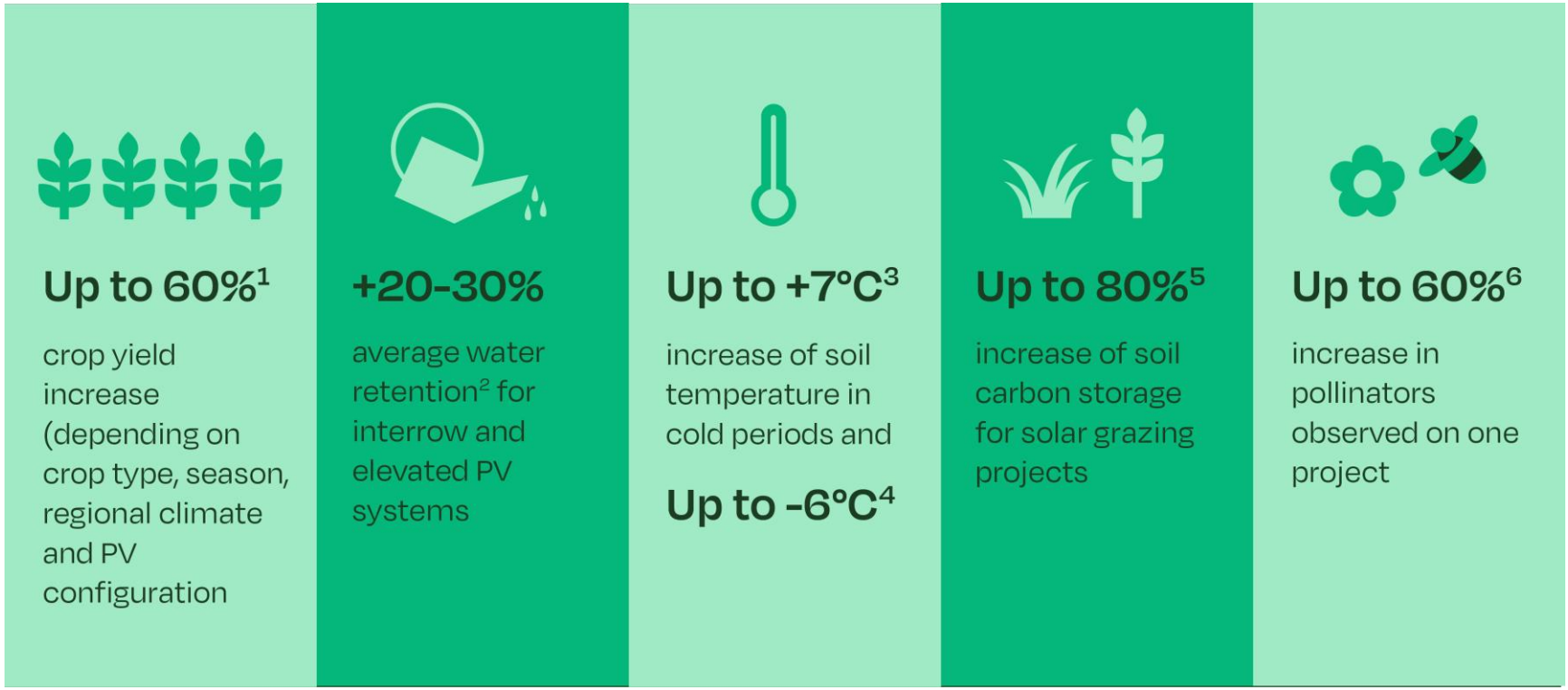
Agrisolar offers an opportunity to create a win-win-win opportunity for farmers, society and the solar industry



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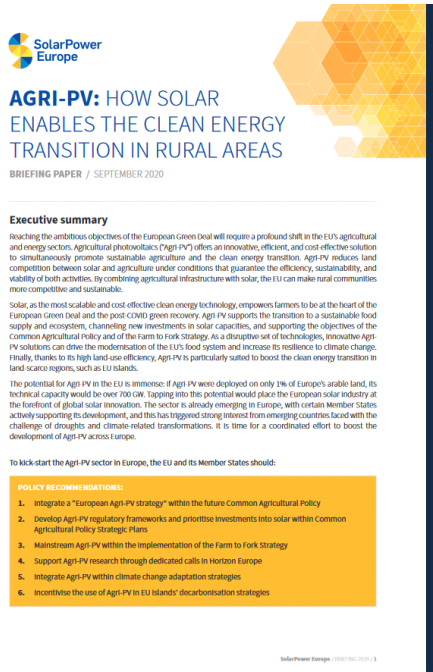
SolarPower Europe has been active on agrisolar for many years


SolarPower Europe

AGRI-PV: HOW SOLAR ENABLES THE CLEAN ENERGY TRANSITION IN RURAL AREAS

BRIEFING PAPER / SEPTEMBER 2020

Executive summary

Reaching the ambitious objectives of the European Green Deal will require a profound shift in the EU's agricultural and energy sectors. Agricultural photovoltaics ("Agri-PV") offers an innovative, efficient, and cost-effective solution to simultaneously promote sustainable agriculture and the clean energy transition. Agri-PV reduces land competition between solar and agriculture under conditions that guarantee the efficiency, sustainability, and viability of both activities. By combining agricultural infrastructure with solar, the EU can make rural communities more competitive and sustainable.

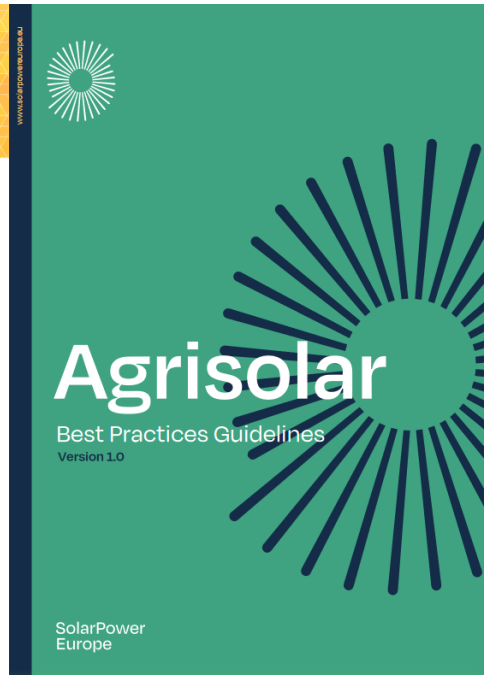
Solar, as the most scalable and cost effective clean energy technology, empowers farmers to be at the heart of the European Green Deal and the post-COVID green recovery. Agri-PV supports the transition to a sustainable food supply and ecosystem, channeling new investments in solar capacities, and supporting the objectives of the Common Agricultural Policy and of the Farm to Fork Strategy. As a disruptive set of technologies, innovative Agri-PV solutions can drive the modernisation of the EU's food system and increase its resilience to climate change. Finally, thanks to its high land-use efficiency, Agri-PV is particularly suited to boost the clean energy transition in land-scarce regions, such as EU islands.

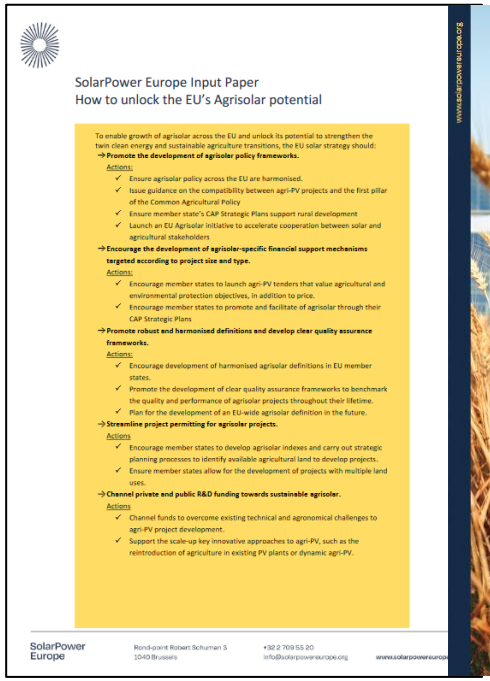
The potential for Agri-PV in the EU is immense: if Agri-PV were deployed on only 1% of Europe's arable land, its technical capacity would be over 700 GW. Tapping into this potential would place the European solar industry at the forefront of global solar innovation. The sector is already emerging in Europe, with certain Member States actively supporting its development, and this has triggered strong interest from emerging countries faced with the challenge of droughts and climate-related transformations. It is time for a coordinated effort to boost the development of Agri-PV across Europe.

To kick-start the Agri-PV sector in Europe, the EU and its Member States should:

POLICY RECOMMENDATIONS:

1. Integrate a "European Agri-PV strategy" within the future Common Agricultural Policy
2. Develop Agri-PV regulatory frameworks and prioritise investments into solar within Common Agricultural Policy Strategic Plans
3. Mainstream Agri-PV within the implementation of the Farm to Fork Strategy
4. Support Agri-PV research through dedicated calls in Horizon Europe
5. Integrate Agri-PV within climate change adaptation strategies
6. Incentivise the use of Agri-PV in EU islands' decarbonisation strategies




SolarPower Europe Input Paper
How to unlock the EU's Agrisolar potential

To enable growth of agrisolar across the EU and unlock its potential to strengthen the twin clean energy and sustainable agriculture transitions, the EU solar strategy should:

→**Promote the development of agrisolar policy frameworks.**

Actions:

- ✓ Ensure agrisolar policy across the EU are harmonised.
- ✓ Issue guidance on the compatibility between agri-PV projects and the first pillar of the Common Agricultural Policy
- ✓ Ensure member state's CAP Strategic Plans support rural development
- ✓ Launch an EU Agrisolar initiative to accelerate cooperation between solar and agricultural stakeholders

→**Encourage the development of agrisolar-specific financial support mechanisms targeted according to project size and type.**

Actions:

- ✓ Encourage member states to launch agri-PV tenders that value agricultural and environmental protection objectives, in addition to price.
- ✓ Encourage member states to promote and facilitate of agrisolar through their CAP Strategic Plans

→**Promote robust and harmonised definitions and develop clear quality assurance frameworks.**

Actions:

- ✓ Encourage development of harmonised agrisolar definitions in EU member states.
- ✓ Promote the development of clear quality assurance frameworks to benchmark the quality and performance of agrisolar projects throughout their lifetime.
- ✓ Plan for the development of an EU-wide agrisolar definition in the future.

→**Streamline project permitting for agrisolar projects.**

Actions

- ✓ Encourage member states to develop agrisolar indexes and carry out strategic planning processes to identify available agricultural land to develop projects.
- ✓ Ensure member states allow for the development of projects with multiple land uses.

→**Channel private and public R&D funding towards sustainable agrisolar.**

Actions

- ✓ Channel funds to overcome existing technical and agronomical challenges to agri-PV project development.
- ✓ Support the scale-up key innovative approaches to agri-PV, such as the reintroduction of agriculture in existing PV plants or dynamic agri-PV.

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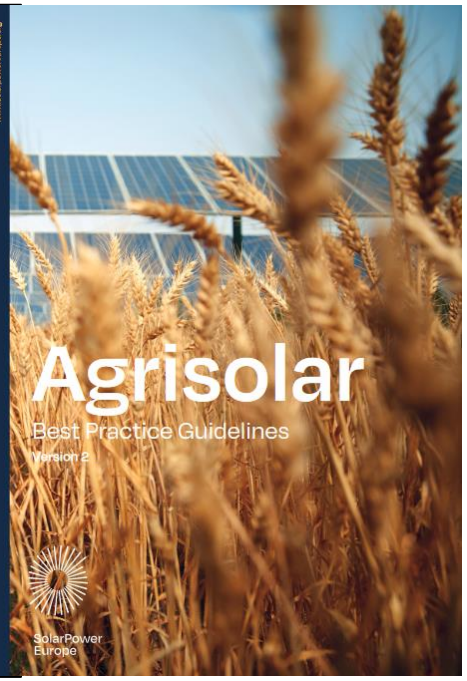

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Agrisolar Handbook developed with solar industry and farmers

copa cogeca
european farmers european agri-cooperatives

FARM EUROPE

agroénergie CONSEIL

METABOLIC

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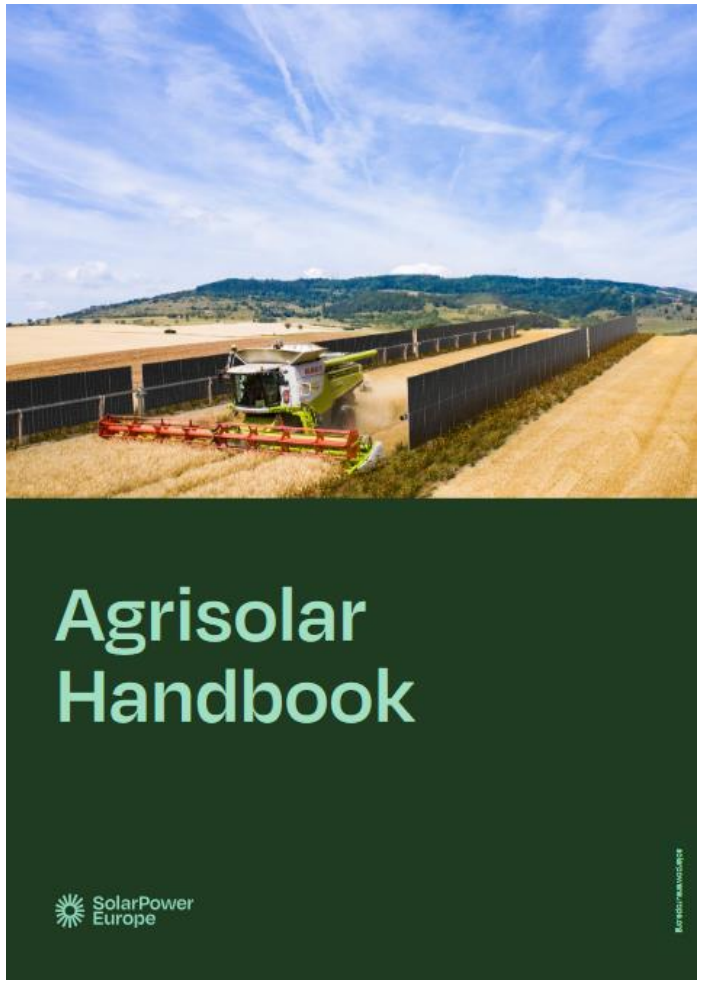

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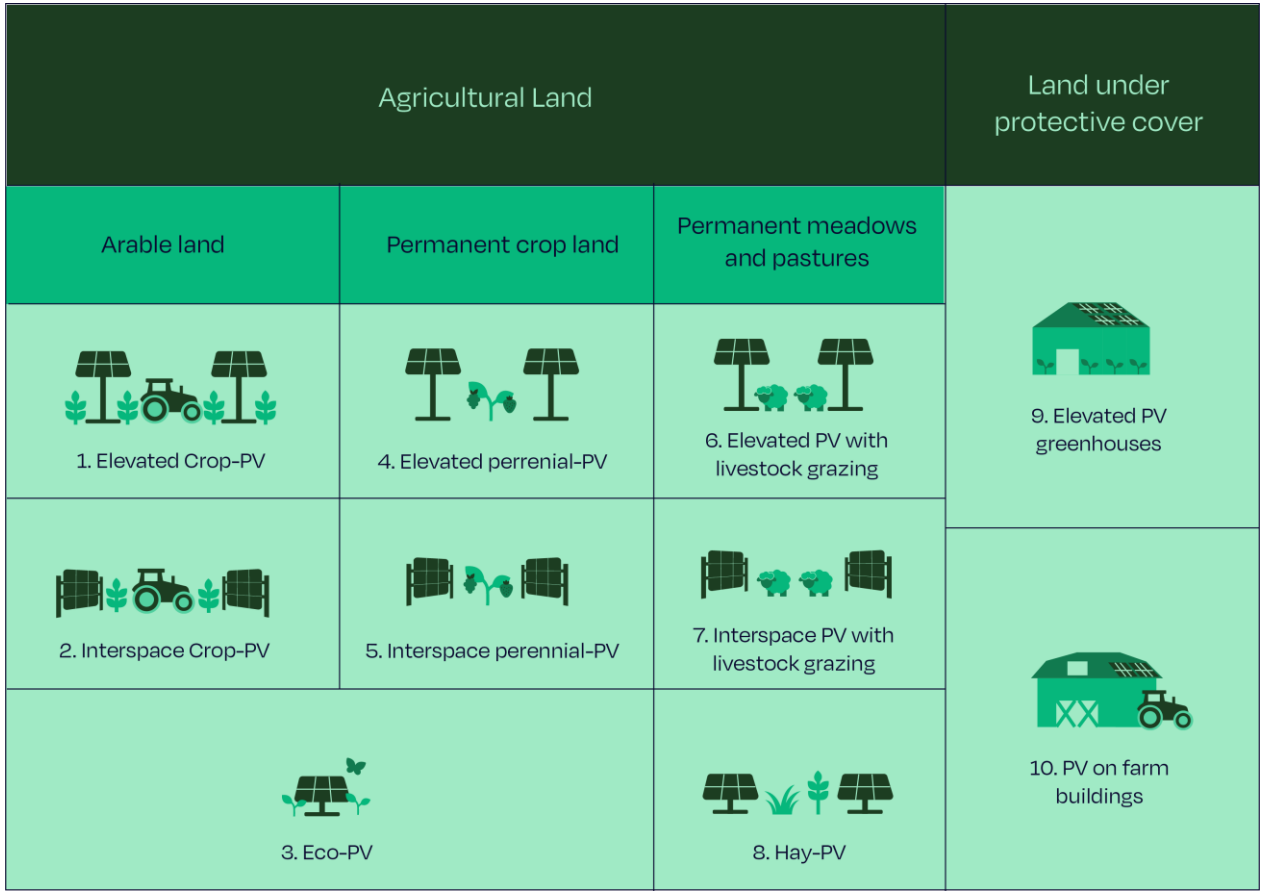
Identifying 10 archetypes of agrisolar



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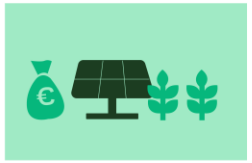
Providing clarity on the economics

Business Models	Energy producer owns and operates PV project (in agreement with farmer)	Farmer owns and operates the project	Joint ownership	
Management of costs and risks for PV	Energy producer	Farmer	Farmer	Energy producer
Revenue generation and benefits from PV				
Revenue generation and benefits of the agricultural activity	Farmer			
Management of costs and risks to the agricultural activity				
Management of the PV system	Energy producer			
Feasibility of business scheme	Commonly used	Applied on a case-by-case basis	Innovative	
Small-scale[10] [11] agrisolar projects	✓	✓	✓	
Medium[12] to large scale[13] agrisolar	✓		✓	

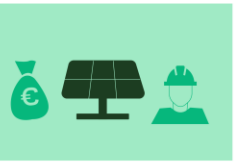
Revenue streams

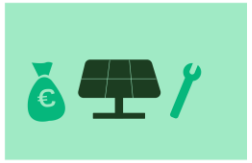
Additional revenue streams a farmer and/or landowner can recieve through an agrisolar project



Land lease payments during operation of agrisolar project

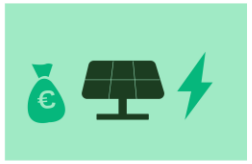
Revenues from agreements during construction phase





Revenues from maintenance of services

Revenues from a provision of agricultural equipment



Revenues from the sale of electricity

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We also need to learn from policy & regulatory experience

1. Clarify that agrisolar has access to the Common Agricultural Policy (CAP)[7] direct payments.
2. Develop relevant schemes to recognise the value of multiple land use.
3. Recognise and integrate agrisolar into environmental requirements or support schemes on agricultural land, including by gathering data on agrisolar projects' environmental and nature benefits.
4. Improve permitting and grid connection procedures.
5. Support further research and innovation in the agrisolar field.

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SolarPower Europe's Agrisolar Digital Map

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It is the **first-of-its-kind digital map** showcasing agrisolar projects across Europe.

The innovative platform presents over **200 agrisolar** projects spanning 10 European countries.

With a combined capacity exceeding **2.8 GW**, these agrisolar projects represent a significant milestone in the integration of **solar energy with agricultural practices.**

Possibility to filter projects based on a) installed capacity b) type of technology c)application d) type of project or by company and/or country

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Thank you for your attention!

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