References - April 2026

BECQUEREL INSTITUTE

Agrivoltaics



Our expertise in Agrivoltaics

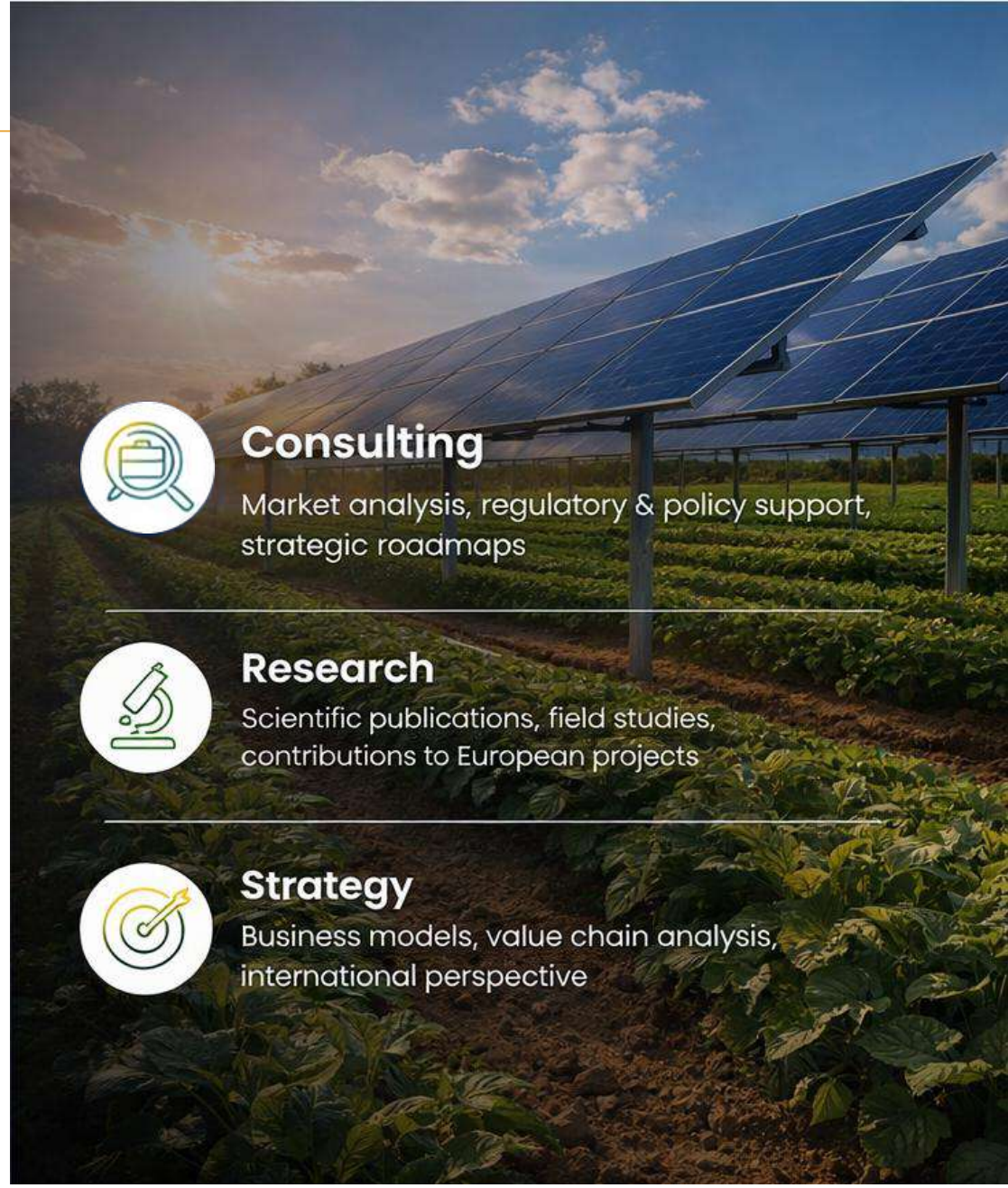
Becquerel Institute has developed a recognised expertise in **agrivoltaics**, combining **strategic consulting, market analysis and scientific research** to support the emergence of this fast-growing segment.

We support public and private stakeholders across Europe and internationally in assessing the **technical, economic and regulatory conditions** for agrivoltaics deployment. Our work covers the full value chain, from market assessments to business model design and policy analysis.

Through our involvement in international projects, scientific contributions and high-level conferences, we contribute to **structuring the agrivoltaics sector** and advancing knowledge on its development condition and potential.

Thanks to this comprehensive approach, Becquerel Institute acts as **a trusted partner** for organisations seeking to understand, develop or scale agrivoltaics solutions.

> *Becquerel Institute supporting the development of sustainable and competitive agrivoltaics solutions worldwide*



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BECQUEREL INSTITUTE
Strategy Consulting in Solar PV

EXAMPLES OF **CONSULTANCY ASSIGNMENTS**

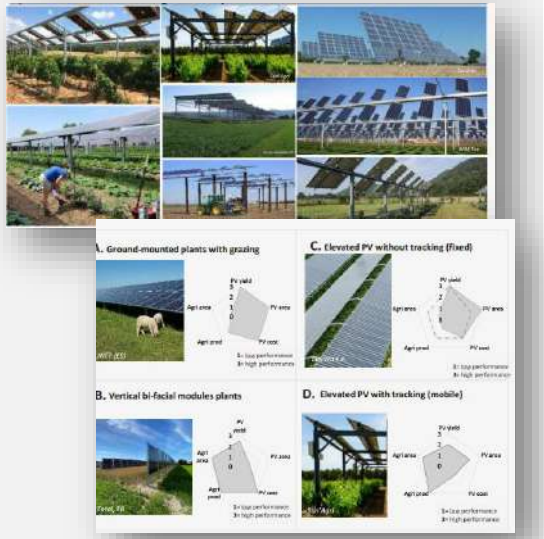


Support of an AgriPV strategy.

Becquerel Institute takes action in one or all stages of the project's development

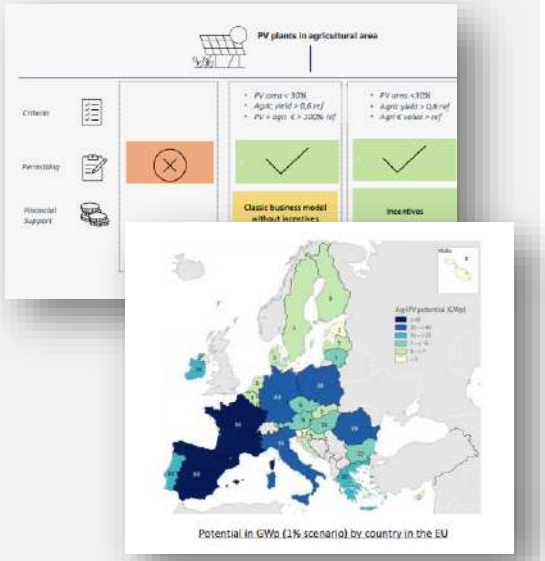
Technology & Innovation

- Technology review, state of the art
- Comparative analysis of systems and applications



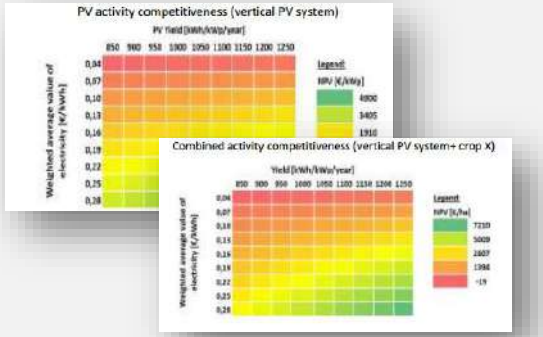
Markets & Regulation

- Development conditions, policies and regulations
- Market forecast



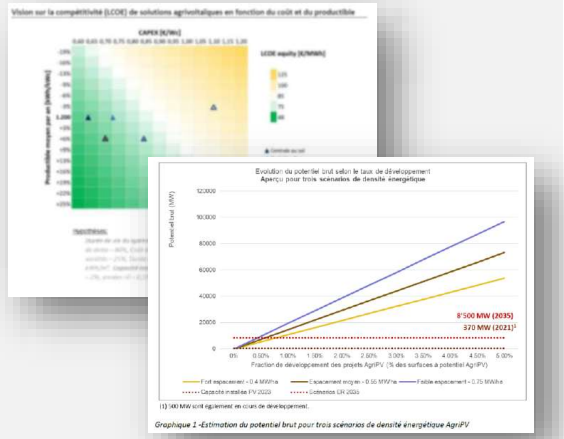
Competitivity

- Modelling and designing business models
- Assessing the competitiveness of solutions (LCOE, etc.)
- Evaluating projects and models profitability (NPV, IRR, etc.)



Strategy

- Analysis of the value chain and positioning
- Development roadmaps, recommendations and strategic guidance



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Feasibility of a pilot agrivoltaic technology project in West and Central Africa

United Nations – 2025/2026

Consulting | AgriPV | Afrique

Context:

Response to the call for tenders issued by the United Nations and the CTCN, for which the Becquerel Institute was commissioned as part of a consortium comprising four partners.

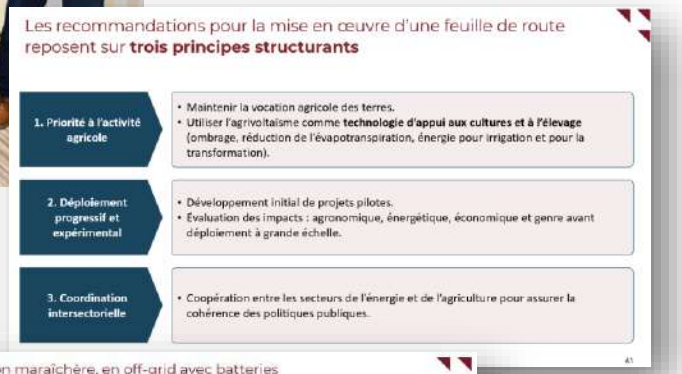
Mission:

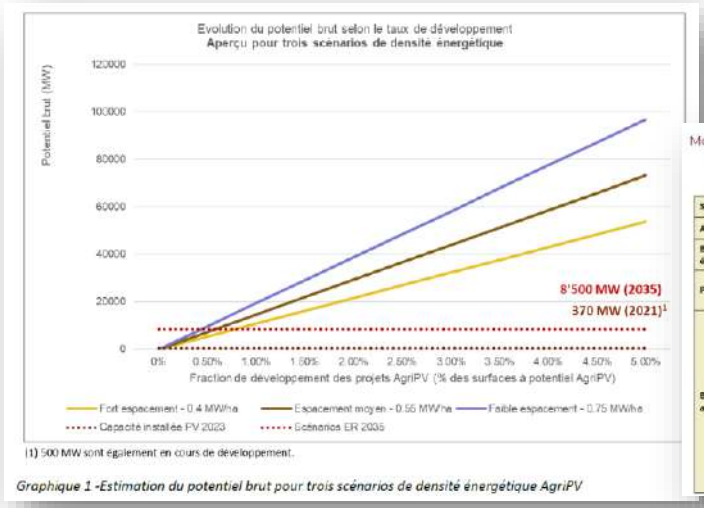
A multi-country technical assistance aiming to carry out a feasibility study for the deployment of agrivoltaic technology in Togo, DRC, Guinea, and Senegal. This will establish the technical, economic, and commercial viability of the technology in the requesting countries.

Principal Tasks:

- Feasibility assessment for implementing agri-voltaic technology in the requesting countries
- Develop the roadmap for deploying agrivoltaic technology
- Market and economic assessment of implementing agrivoltaic technology
- Multi-country validation workshop







Graphique 1 -Estimation du potentiel brut pour trois scénarios de densité énergétique AgriPV



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Some examples of **consultancy assignments**

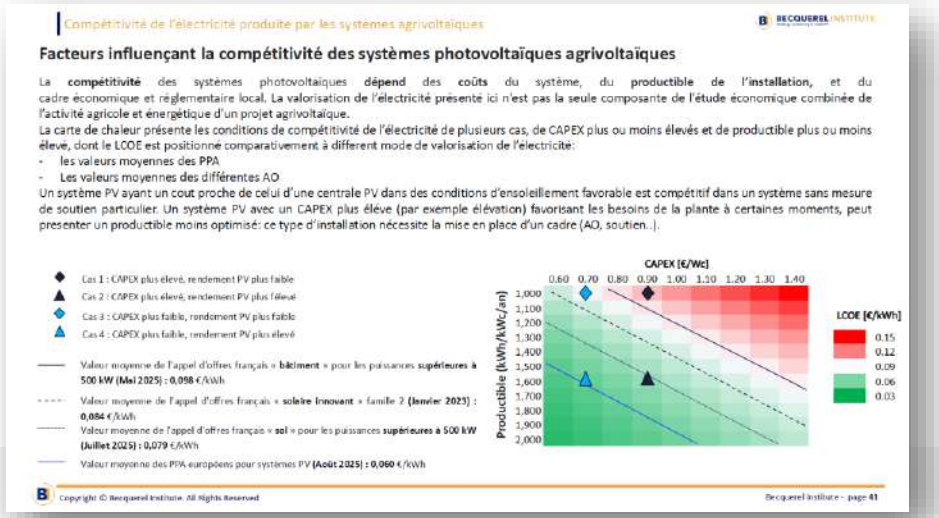
Consulting | AgriPV | Europe

State of the art - Economic and regulatory study of agrivoltaics in France and Spain

European Project AGRIPOWER – October 2025

Interreg POCTEFA — Cofinanciado por la UNIÓN EUROPEA — Cofinancé par l'UNION EUROPÉENNE

AgriPower

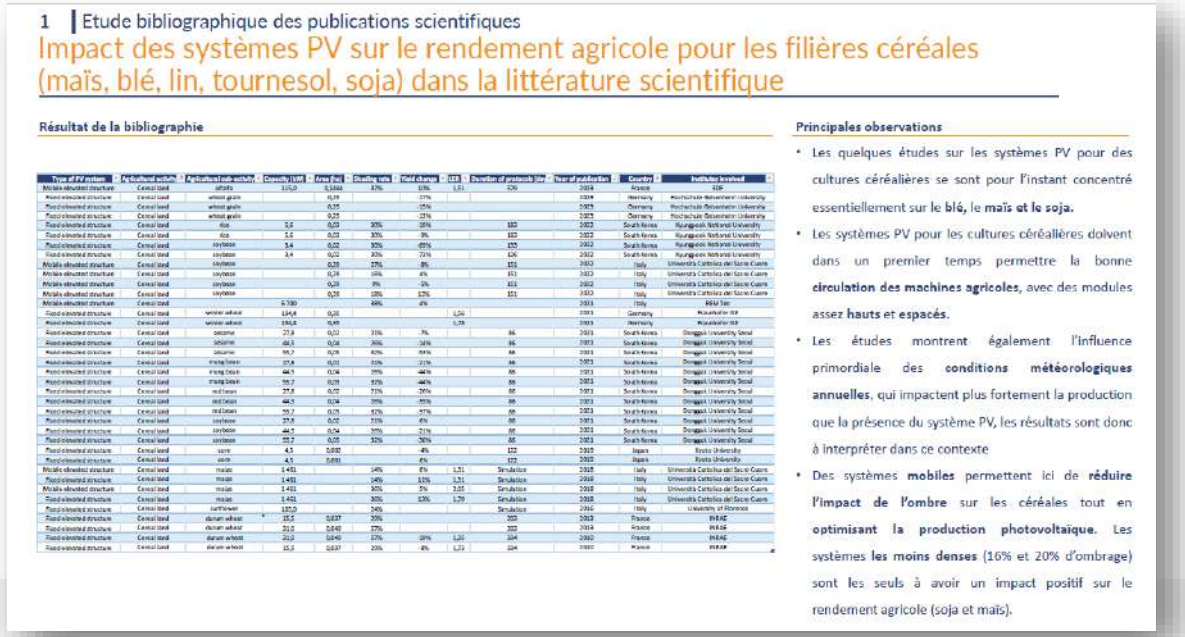


Principal Tasks:

- Analysis of the regulatory framework for agrivoltaics by country (France, Spain)
- Competitiveness and support schemes by country (France, Spain)
- Emerging and existing agrivoltaics business models
- Strategic summary (France, Spain)

Agrivoltaics: Perspectives & Opportunities

IPP – 2023



Principal Tasks:

- Review of the types of possible solar PV applications on agricultural land
- Benchmark of scientific data: type of PV system, agricultural activity, size of the demonstration, duration of the protocols, data availability, country study, institute involved

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Strategic analysis of agrivoltaic applications in Tunisia

GIZ – 2024/2025

Consulting | AgriPV | Afrique

Context:

The strategic analysis mission forms part of the project ‘Support for an Accelerated Energy Transition in Tunisia’ issued by ANME and founded by the Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) for which the Becquerel Institute was commissioned as part of a consortium comprising three partners.

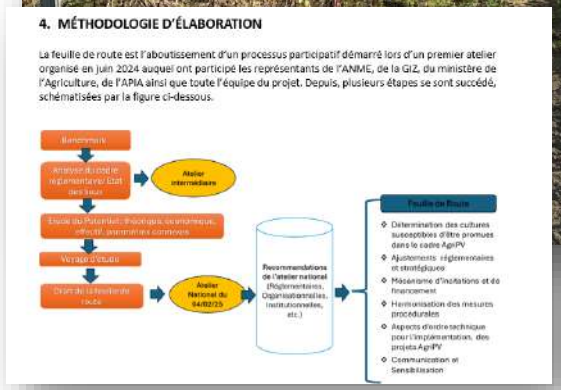
Mission:

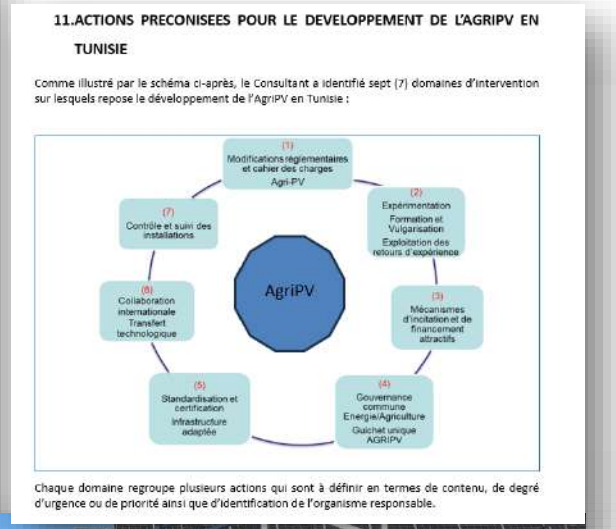
Support the strengthening of strategic, regulatory and technical conditions to accelerate Tunisia's energy transition, particularly the development of agrivoltaics.

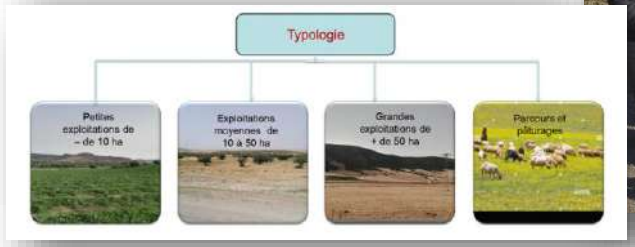
Principal Tasks:

- **Benchmark analysis of the ‘agrivoltaic’ mechanism**
- **Organising a study tour on agrivoltaics**
- Review and analysis of the regulatory framework
- Study to assess the potential of agrivoltaics at national level
- **Strategic analysis for the roll-out of the ‘agrivoltaic’ mechanism in Tunisia**











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Some examples of **consultancy assignments**

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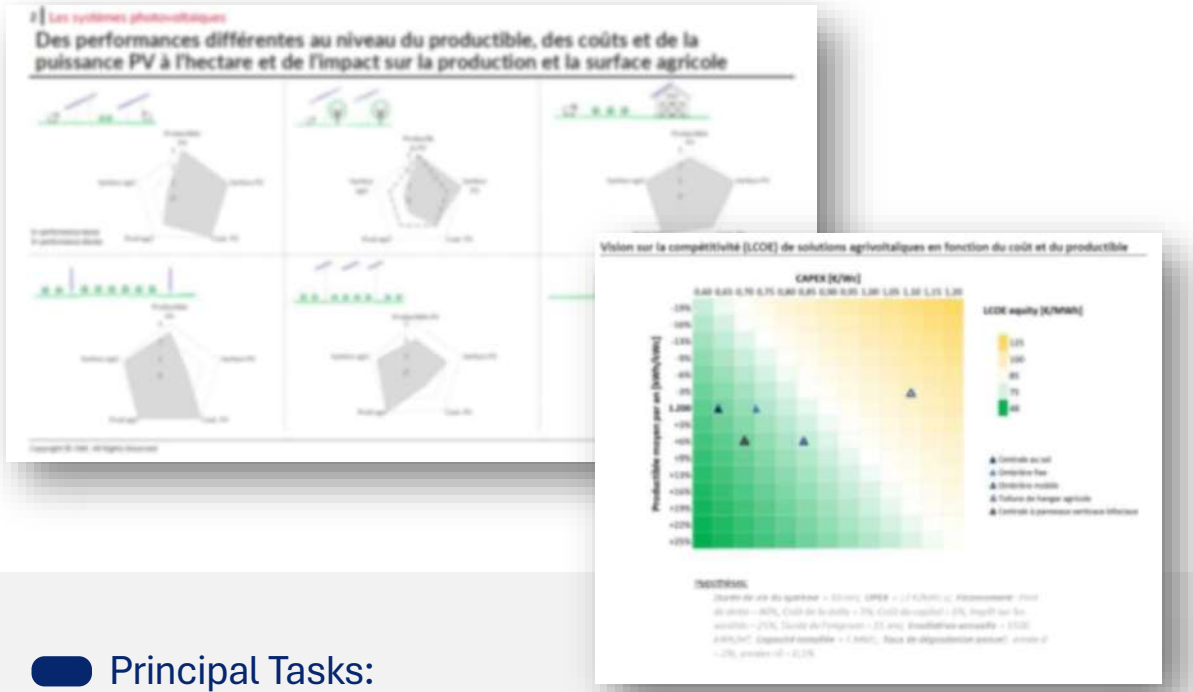
Perspectives for agrivoltaics – Strategic guidance

Developer – 2022

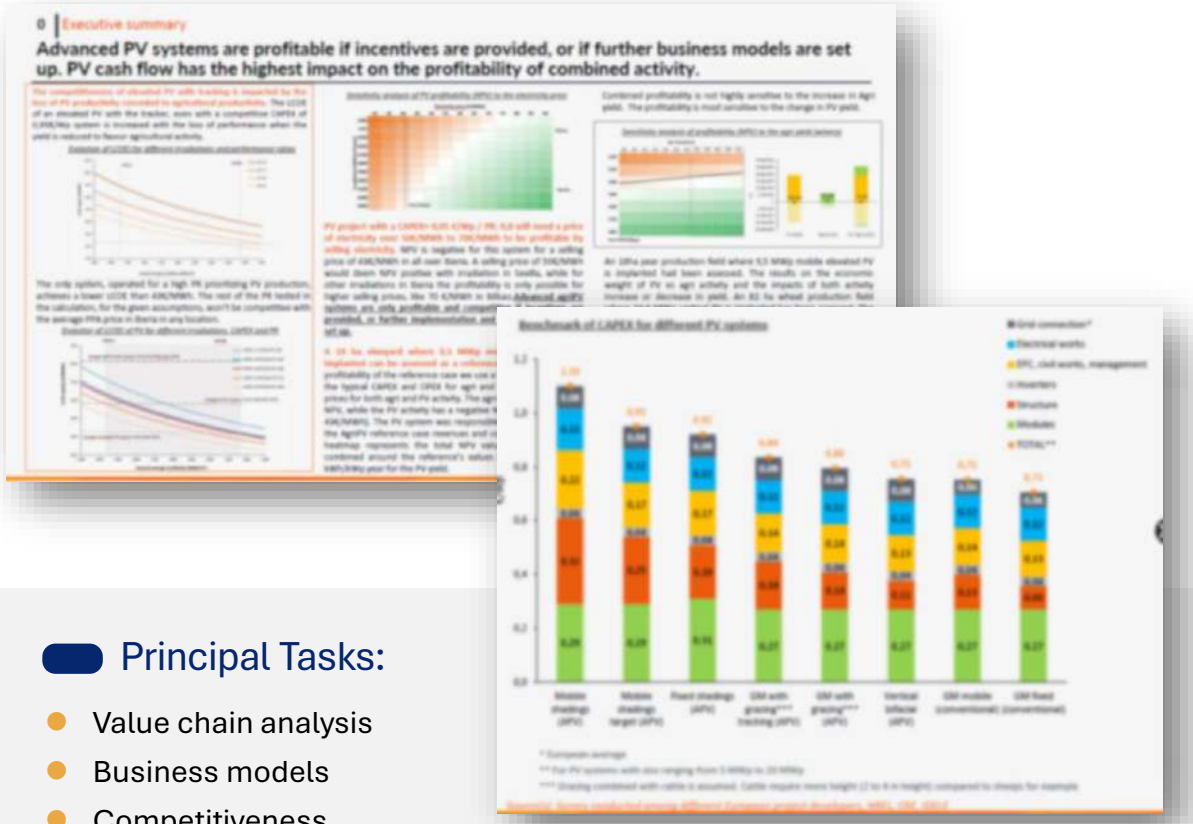


Principal Tasks:

- Market outlook and positioning of an offering
- Analysis of organisational and partnership opportunities
- Budget and business model
- Roadmap deployment schedule

Agrivoltaics: Perspectives & Opportunities

IPP – 2022



Principal Tasks:

- Value chain analysis
- Business models
- Competitiveness
- Market analysis
- Strategic recommendations

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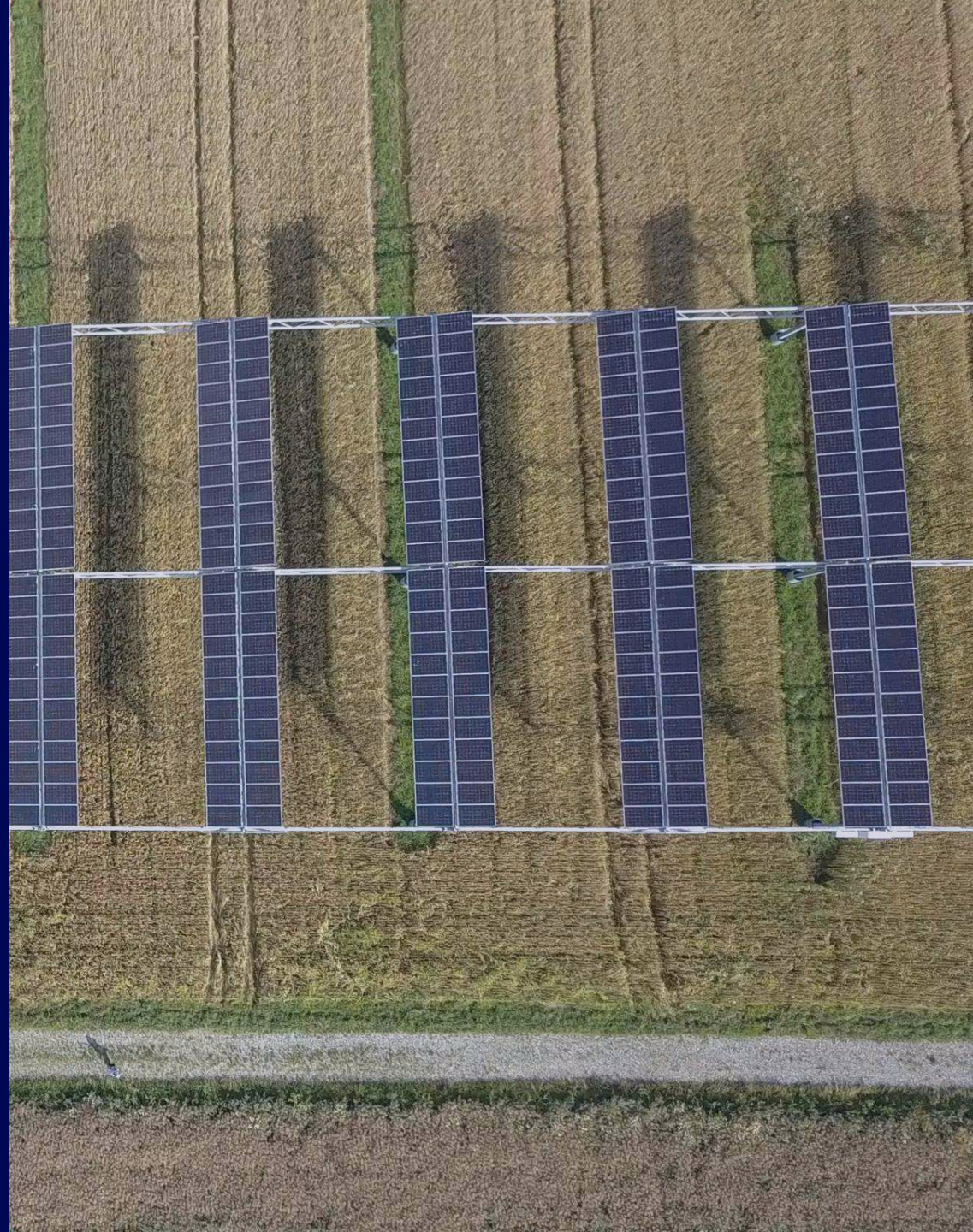
Research contributions



European Project **SEAMLESS-PV**

Three years Horizon Europe Programme – 2023/2026

Research | AgriPV | Europe

Seamless-PV

Context:

SEAMLESS-PV: HEU project involving 18 partners from 6 countries. Objective: Development of advanced manufacturing equipment and processes aimed at the seamless integration of multifunctional PV solutions, enabling the deployment of IPV sectors. Agrivoltaics is one of the four IPV segments.

Mission:

As partner of the project, Becquerel Institute conduct market analysis, competitive analysis, life cycle analysis (LCA), as well as business model and industry strategy definition.

Principal Tasks:

- Competitive analysis (end users/developers, module manufacturers): D1.1, D2.5
- Regulatory analysis: D2.2
- Stakeholder/needs analysis: D2.1
- Market potential analysis: D2.4
- Social life cycle analysis: D1.4
- Environmental life cycle analysis: D1.2

D1.1: Assessment of IPV modules' production cost and cost competitiveness analysis of IPV projects

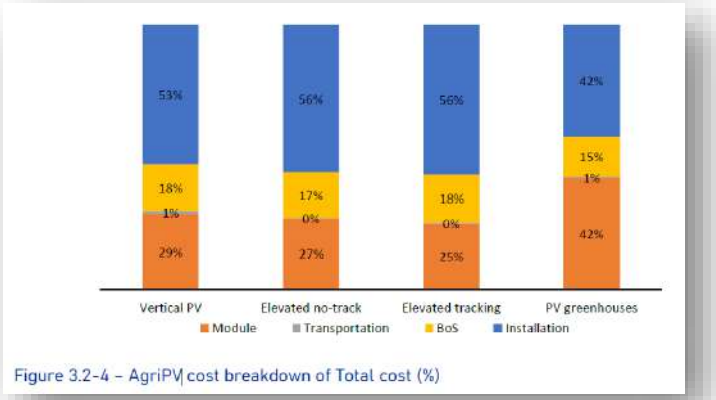


Figure 3.2-4 – AgriPV cost breakdown of Total cost (%)

Main Partners:

tecnalia MEMBER OF BASQUE RESEARCH & TECHNOLOGY ALLIANCE

cea

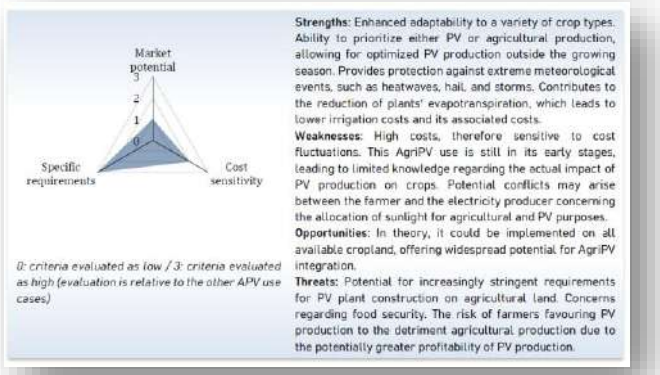
onyx

MONDRAGON ASSEMBLY

AGRITERRA GROUP

Co-funded by the European Union

D2.1: IPV market analysis and identification of stakeholders' needs



D2.4: IPV market potential and comparative long-term impact scenarios

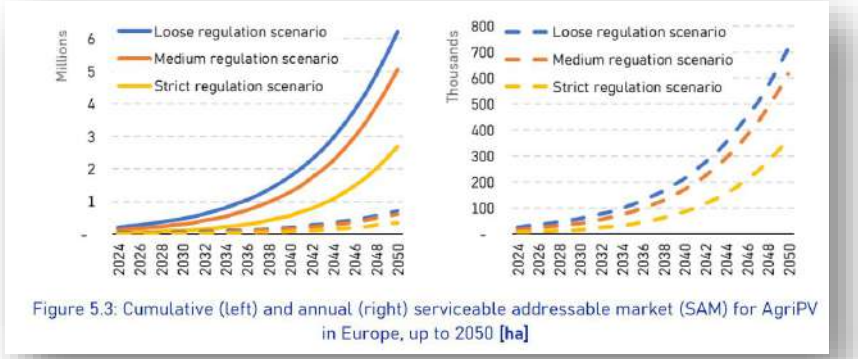


Figure 5.3: Cumulative (left) and annual (right) serviceable addressable market (SAM) for AgriPV in Europe, up to 2050 **[ha]**

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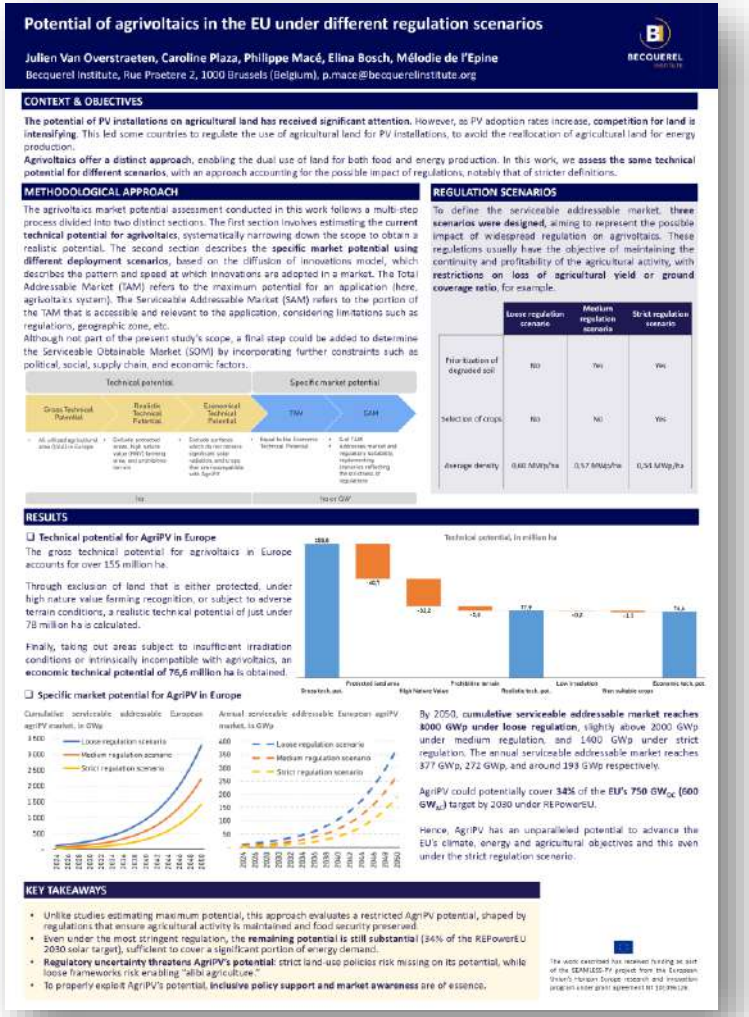
BECQUEREL INSTITUTE Strategy Consulting in Solar PV

Our **research publications** on agrivoltaics

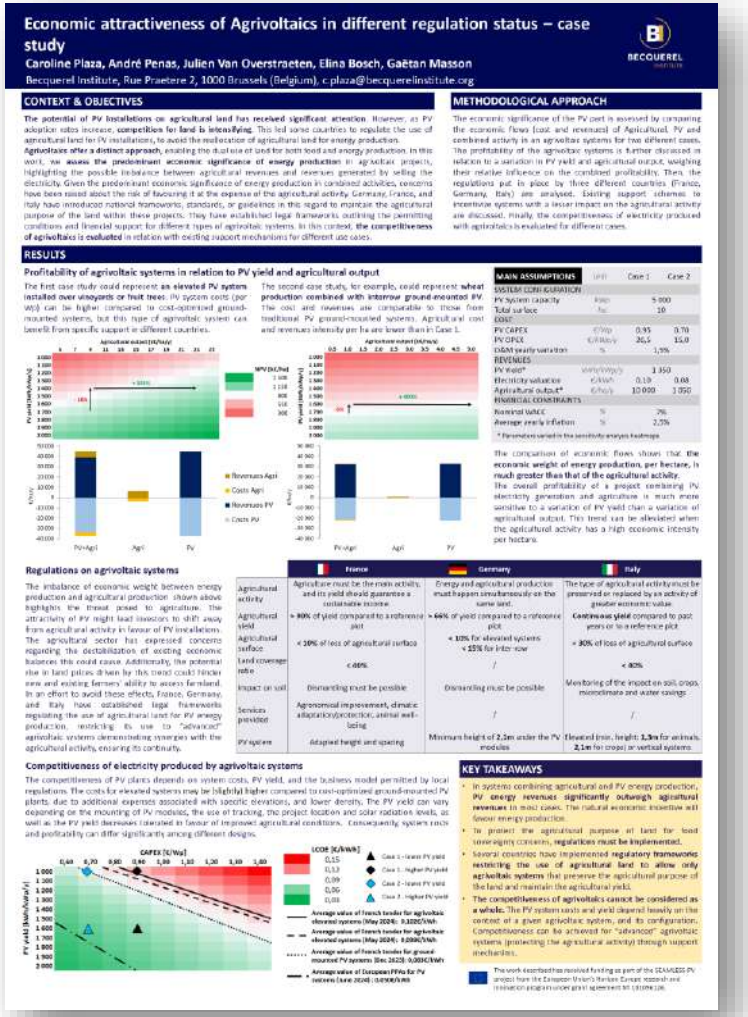
Potential of agrivoltaics in the EU under different regulation scenarios

Poster for EUPVSEC 2025



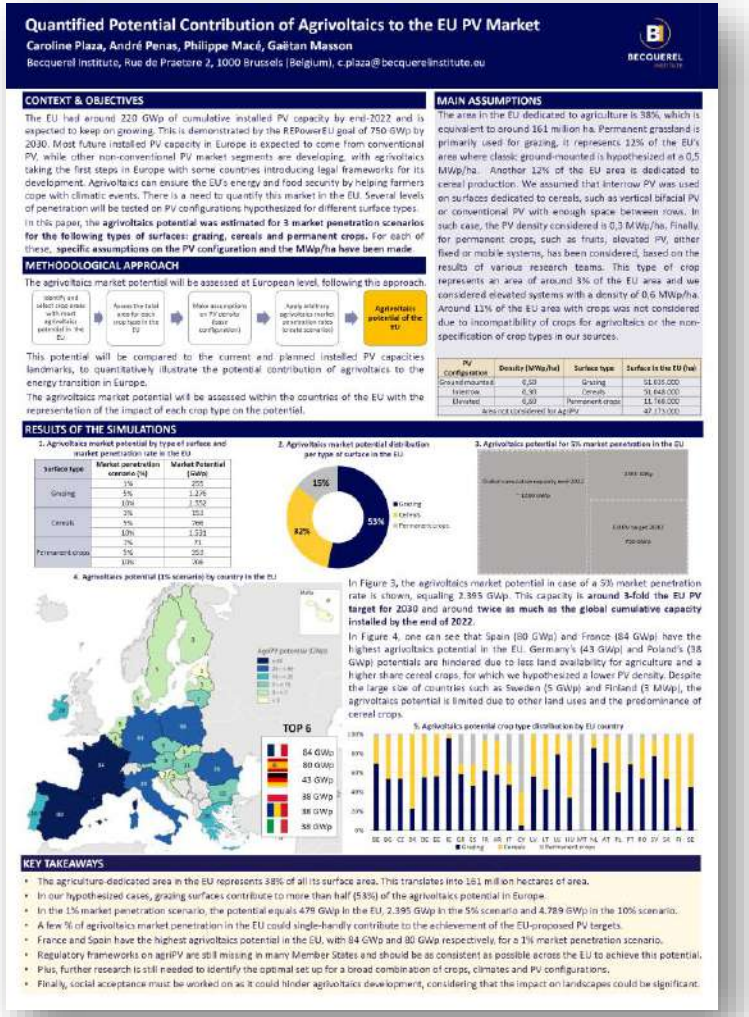
Economic attractiveness of Agrivoltaics in different regulation status

Poster for EUPVSEC 2024



Quantified Potential Contribution of Agrivoltaics to the EUPV Market

Poster for EUPVSEC 2023



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Conferences participation



Sharing our AgriPV expertise on the global stage

Solar Plaza Summit AGRI-PV Europe
June 2026, Paris

Closing the cost gap: optimizing CAPEX & OPEX
Elina Bosch

This session explores how technology evolution, smarter system design, and operational optimisation are reducing CAPEX and OPEX., bringing agri-PV closer to mainstream utility-scale economics.

- Engineering, procurement, and O&M choices that materially improve project economics
- Elevated structures, adaptive shading, semi-transparent modules, and design standardisation
- Where CAPEX and OPEX are falling, and where they are not

Close description

Elina Bosch
Becquerel Institute

Solar Plaza Summit AGRI-PV Europe
September 2025, Cologne

Designing for profit: The techno-economics of agri-pv
Elina Bosch

This session unpacks how a project's bankability is shaped by the interplay between regulatory frameworks, system configuration for solar and agriculture, and technological choices. With capital ready to flow into Agri-PV, the focus shifts from innovation for its own sake to what truly makes a project investable, scalable, and built for long-term success

Read full description

Elina Bosch
Becquerel Institute

Agrivoltaics World Conference
July 2025, Freiburg



Economic attractiveness of Agrivolaics in different regulation statuses
Elina Bosch

EB
Elina Bosch
Becquerel Institute

The economic significance of energy and agricultural production in agrivoltaic projects is analyzed. The competitiveness of agrivoltaics is evaluated in relation with existing support mechanisms for different use cases.

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Sharing our AgriPV expertise on the global stage

Intersolar 2024
June 2024, Munich

inter solar connecting solar business | EUROPE

Economic attractiveness of AgriPV in several use cases
Caroline Plaza



EUPVSEC 2024
September 2024, Vienna

EU PVSEC

The landscape of Agrivoltaics: « in the between people and technology »
Gaëtan Masson



FORO SOLAR 2023
October 2023, Madrid

forosolar

PV Systems in Agricultural Areas
Caroline Plaza, Gaëtan Masson



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Sharing our AgriPV expertise on the global stage

POLLUTEC 2023 & 2021
October, Lyon

pollutec
ACTIVATEUR DE LA TRANSITION ÉCOLOGIQUE

- **Energies vertes, nouvelles ressources agricoles ?** Caroline Plaza, Mélodie de l'Epine
- **Perspectives Agrovoltaïques**
  Gaëtan Masson





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BECQUEREL INSTITUTE
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Press publications



Our media features

Agrivoltaics: Innovative business models may unlock new opportunities

PVTECH, August 2024



PVTECH

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Agrivoltaics: Innovative business models may unlock new opportunities

By Caroline Plaza, managing partner at the Becquerel Institute

August 22, 2024

Power Plants, Projects

Europe

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Beyond IEC 61215-2: rethinking mechanical testing for tracker mounted PV modules

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Agrivoltaïsme : au-delà de l'opposition des enjeux, une stratégie concertée de l'usage des ressources à établir - PLEIN SOLEIL, December 2022



Agrivoltaïsme

Point de vue par Caroline Plaza, directrice générale France de l'Institut Becquerel

Agrivoltaïsme : au-delà de l'opposition des enjeux, une stratégie concertée de l'usage des ressources à établir

Une utilisation économe et optimisée des sols et de la lumière

Un marché encore émergent : la difficile question de la définition de l'agrivoltaïsme et des stratégies de développement à établir

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Agrivoltaïsme

Prendre en compte la spécificité de chaque contexte territorial, ses tensions et équilibres économiques

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FROM MARKET INSIGHT TO COMPETITIVE ADVANTAGE

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