RISEnergy

Research Infrastructure Services for Renewable Energy

Shining a light on solar energy

Connecting researchers and infrastructure to power photovoltaics (PV) innovation in Europe

Solar photovoltaics are at the heart of our transition to a clean energy future. To achieve climate neutrality by 2050, **global PV capacity needs to surge from 2 TW to 70 TW**. This monumental jump requires rapid innovation and scaling of production.

Beyond the panels

From barriers to breakthroughs: A snapshot of PV's path forward

Challenges

Producing billions of PV modules over the coming decades means we must adopt **sustainable and circular manufacturing** processes. **Recycling** and **resource efficiency** are key.

Opportunities

Imagine generating clean energy while cultivating crops! **Integrated photovoltaics**, like agri-PV, enable energy production and agriculture to **coexist on the same land**, maximising resource use.

RISEnergy connects researchers with **cutting-edge photovoltaic infrastructures** across Europe and beyond. By providing easy access to state-of-the-art facilities, it **supports collaborative research** that aims to drive **more sustainable PV manufacturing processes** and **innovative solutions** like agri-PV.

Photovoltaics will be central to meeting our future energy needs. But progress depends on collaboration and access to the right tools. **RISEnergy plays a key role by opening the doors to advanced infrastructures** that help researchers turn ideas into real-world impact.

Ivan Gordon
Department Director IMOMEC,
Photovoltaics Area Leader

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