

AGRIVOLTAICS 2024

together with 14th International
C&E on Green Flexible Printed
Electronics Industry (ICEFPE24)

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Given global population growth, there's a growing need to boost food and energy production. However, meeting increased food demand may raise fossil fuel use and greenhouse gas emissions. REPowerEU aims for 45% renewable energy in the EU by 2030, emphasizing PV energy adoption through an EU solar energy strategy.

Agrivoltaics is an emerging technology field that combines the most innovative Renewable Energy solution based on Flexible Semitransparent Organic Photovoltaics (OPV) and the other FPE devices with Agriculture to lead a sustainable farming process and crop growth. Implementing OPV-based energy systems avoids impacting arable land, addressing limited agricultural space and promoting sustainable land management.

Agrivoltaics, especially with OPVs can contribute not only to the 1 TWp solar target by 2030 and 50 TWp solar target by 2050, but also to increase dramatically the food production and water management. Soon, Greenhouse and open cultivations will be fully transformed into sustainable food production units and power plants for self-consumption, electricity trade and grid connection, creating wealth, employment, and prosperity in local communities and countries.



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