

# AGRIVOLTAICS 2023

together with 13<sup>th</sup> International  
C&E on Green Flexible Printed  
Electronics Industry (ICEFPE23)

[www.agrivoltaics-conf.com](http://www.agrivoltaics-conf.com)

Organized by:



COPE-Nano

30 Oct - 1 Nov 2023

Divani Caravel Hotel  
Athens



Given the rapid growth of the global population, there is an increasing need to enhance food production and energy generation. However, meeting the rising demand for food would likely result in greater fossil fuel usage, leading to higher greenhouse gas emissions. REPowerEU seeks to achieve 45% renewable energy in the EU at 2030 mix and expedite 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. The implementation of OPV-based energy generation systems without affecting the arable land addresses the challenge of limited available land for agriculture and promotes sustainable land management practices.

Agrivoltaics, especially with OPVs can contribute not only to the 1 TWp solar target by 2030 and 5 TWp solar target by 2050, but also to increase dramatically the food production and water management. In the near future, 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 the countries.

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