AGRIVOLTAICS – DUAL HARVESTING OF FOOD AND ELECTRICITY

Sector growth and early harvests in the agrivoltaic fields

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Solar Power Plants

pv magazine Round Tables Europe

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Fraunhofer Institute for Solar Energy Systems ISE

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Integrated Photovoltaics at Fraunhofer ISE

A confluence of pressure

The current challenges facing agriculture and PV

1. Recent trends in middle European countries show a decrease in rainwater availability for irrigation coupled with increased solar radiation

Combined factors work together to magnify agricultural drought stress

2. Increasing frequency of extreme weather events means that many crops can benefit from protection like PV module shading

3. The expansion of land use for photovoltaics brings conflict around well-located land- yes raw numbers for available land in many countries are high, but how much is practically useable for PV or agriculture?

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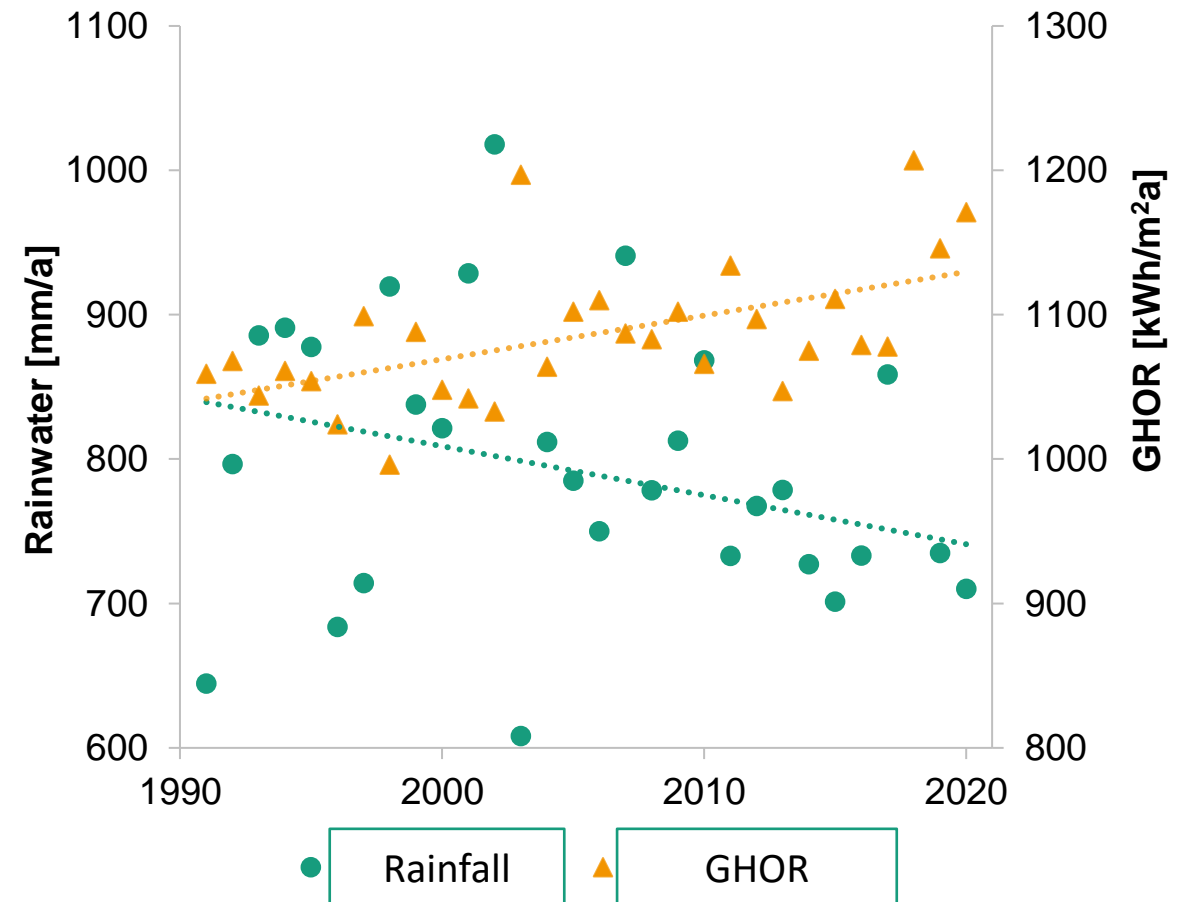
HyPErFarm
Hydrogen an

Project duration

Topic: The integr
production in th

Budget: ca. 5.2 M

**Installed capacit

Approach: Deve
tracked APV syst

Electrolysis and
hydrogen produ

As the project ne
winter wheat, ca
promising result

Krinner Solar Carport
GmbH

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Modellregion Agri-PV-BaWü
Sample project: Lake Constance KOB Site

Project duration: Undete

Topic: Understanding ho
Gala) with high regional
under agrivoltaic systems

Installed capacity: 240 kW

Approach: Agronomic a
with local experts from t
flavor, and quality compo
market value.

Monitoring of microclima
agrivoltaic and reference
network.

...st-west static and one single axis
...udies with a focus on landscape
...ll also be performed.

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Thank you very much for your attention!

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