Agrivoltaic systems Vietnam

What is an agrivoltaic system?
An agrivoltaic system is a method of combining crop planting and electricity generation on the same land. It is considered an opportunity to resolve the competition for land use between food and energy production. Farmers can gain electricitywith the installation of such systems on their farmland,in addition to growing crops.

Are solar energy solutions transforming Cambodia's agriculture & fisheries sector?
"Solar Energy Solutions Are Transforming Cambodia's Agricultureand transforming -cambodias-agriculture-and- fisheries - sector. Solar Power World. 2021. "Largest agrivoltaic research project in U.S. advances renewable energy while empowering local farmers." 10 June,2021.

How can agrivoltaic projects promote just transition?
To promote just transition,agrivoltaic projects can be organised as cooperatives where profits are shared among members. The energy and food produced can also be used to strengthen the energy and food security of low-income households. Research on agrivoltaic systems in Southeast Asia should also be strongly encouraged.

Where can agrivoltaic projects be organised?
Southeast Asia Solar Garden in Boulder County,Colorado in the US. This research and learning centre Power World 2021). Agrivoltaic projects can also be organised as cooperativesthat share profits among members. Examples of such organisational models can already be the UK (Rapid Transition Alliance 2021).

What are some examples of agrivoltaic systems?
Examples include an eggplant-growing agrivoltaic project in Baron Technopark,South energy-food production (Manila Standard 2022). In Thailand,an academic study found that the (Kumpanalaisatit et al. 2022). However,given the potential of agrivoltaic systems,the same

Agrisolar systems offer multiple benefits. In an agrisolar system, plants are grown beneath airier solar panels than plastic greenhouses, said Prof. Duong Van Chin, former chair of Dinh Thanh Agricultural Research Center (of Loc Troi Group). Agri-machines can still work beneath the panels.

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Analyses of the benefits and trade-offs of agrivoltaics have typically been based on comparisons between agrivoltaic systems and open cropping systems (in which there is no shading of crops). Often, however, areas suitable for agrivoltaics may also be suitable for other multifunctional agriculture practices.

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Research from other regions suggests that agrivoltaic systems - where solar panels are integrated with farmlands - have the potential to increase land productivity in food-energy production ...

As most of the solar farms are in Southern Vietnam, policy makers are facing the trade-off between energy production and food security. This raises the question for the possibility of the agrivoltaic systems which have been successfully implemented in France, Japan, Germany, and America.

Small-scale agrivoltaics done off-grid can address declining incomes faced by farmers across Vietnam by providing them with localized energy systems that cut the costs of diesel for farm activities. By creating a localized mechanism for renewable energy generation, agrivoltaics would also further support Vietnam"s Resolution No. 120 on ...

In the paper, the economic efficiency of a typical solar power project on agricultural land in Gia Lai province, Central Region, Vietnam is analyzed by using RETScreen financial-economic efficiency analysis software. This study shows that the payback time of a typical solar power system on agricultural land in Gia Lai province is about 8 years.

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