

The Possibilities and Prospects of Farming Solar Photovoltaic by the PPA Model

Agri-Food Business

Prof. Kijung Sung

(Laboratory of Agricultural Economics)

E-mail kijung.sung@setsunan.ac.jp

Keywords Farming Solar Photovoltaics, Business Model, Fourth Industrial Revolution, PPA Model



Research topics

Backgrounds

- Need to prepare for the problem of curbing greenhouse gas emissions and depletion of resources that will come someday.
- Weakening of the food supply function in the agricultural sector.
- Increasing smartness to Agri-Food sector.

Objectives

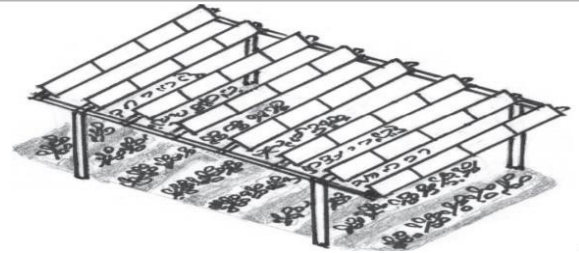
- Find the best way to balance photovoltaic power generation and farming activities.
- Try to develop a new business model.
- Conduct economic efficiency analysis focusing on profitability.

Main achievements

- If the fixed-price purchase system is reduced or abolished, the recovery of construction costs will be prolonged and profitable after the 14th.
- System Integrator can make a big profit from the start by doing business on the PPA model.

Prospects for collaboration

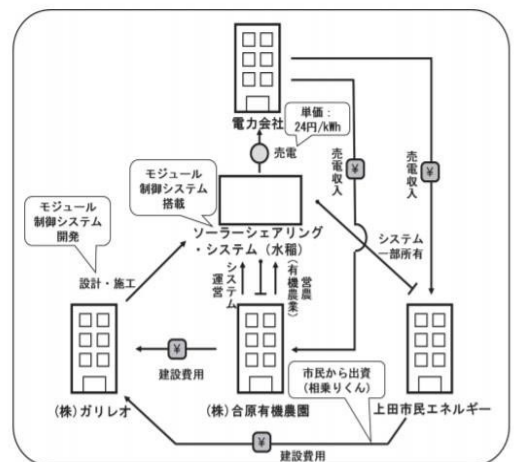
Collaboration with agricultural organizations, solar cell manufacturers, equipment construction companies, and power generation companies.



Basic Structure of Farming Solar Photovoltaics



Farming Solar Photovoltaic Facility in SUN Farm Ichihara



Business Model of Gohara Organic Farm



Research features

Farming Solar Photovoltaics is a new possibility for the future in the field of food and agriculture. Developing a business model and analyzing economic efficiency are essential for its dissemination.