

### Support agriculture & help farmers increase their income

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# Innovative Technology

See-through reversible panel (30~40% transparency)

## Solar Farm®

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**Solar Farm**<sup>®</sup> is a system that improves food and energy security by providing year-round clean solar energy and high quality produce.



**Solar Farm**<sup>®</sup> increases land utilization to 120% by combining solar power generation and horticulture operations on the same piece of the land



**Solar Farm**<sup>®</sup> system can mitigate damage for income of farmers (risk of agriculture) through sales of electricity even at the time when abnormal weather events might happen then cultivation facilities and crops are damaged.



**Solar Farm**<sup>®</sup> can reduce water demands of plants due to the increase of shade (made by solar panels) and the use of hydroponic systems



#### Innovative Technology

**Precision agriculture efforts in Solar Farm®** 

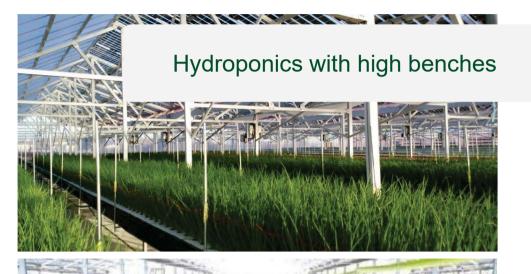
• **Spray-hydroponics system**: System that spray appropriate amount of fertilizer directly to the root of crop.

**Benefits** : Reduce water usage & increase fertilizer efficiency

- Automatic air-conditioning system: Automatic system that stabilizes the temperature & moisture inside of the house.
   Benefits: Reduce man-power
- <u>Plant monitoring system</u>: System that collects the plantation data (air condition, fertilizer, water condition)
  <u>Benefits</u>: Enable analysis of the plantation data, which allows us to make an effective future cultivation plan
- Automatic culture fluid supply system: System that supplies the necessary culture fluids into the soil by using soil condition detecting sensors
  <u>Benefits</u>: Reduce a loss & increase a quality of the crop



### 4 types of Solar Farm®

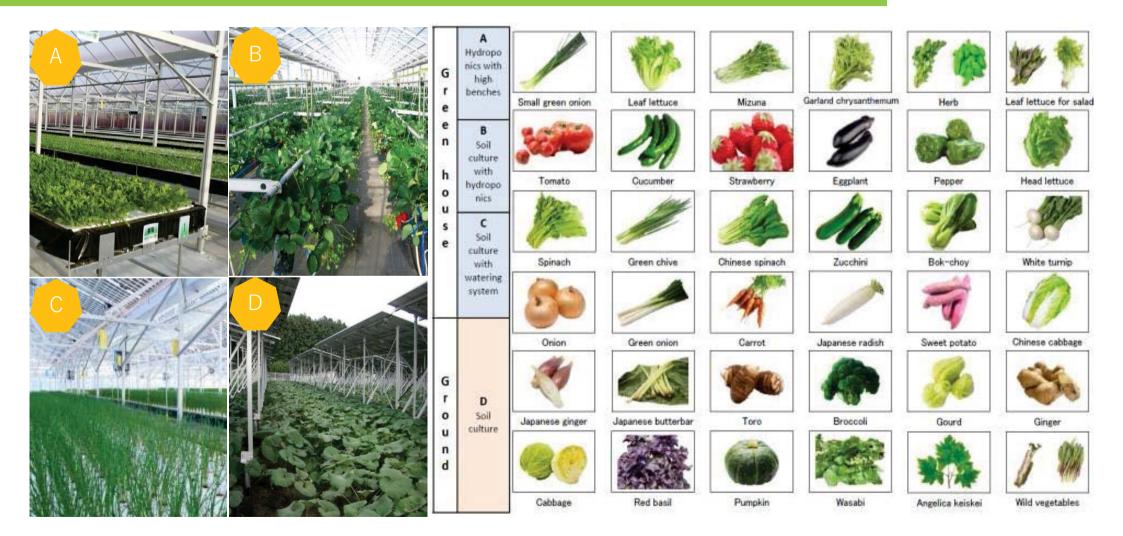


#### Soil culture with watering system





#### Possible crops that can be cultivated under Solar Farm<sup>®</sup> Our Solar Farm technology is unique and its special see-through panel has been patented



Farmdo

#### **Our owned Solar Farm® up to today**

SolarFarm In Mongolia



Solar Power Plants in Monnaran





#The average of power usage in Mongolia is 184wh.



SolarFarm

117Mw (187 places) Total Revenue 47 billion yen



/ year





3.75 billion yen

(20€)

Renewable **Energy Supply** 

20,000 houses

Usage in Japan is 300kwh







