

# Achieving SDGs Through Use Of JCM Case Studies and Methods



**Farmdo**  
group

Agriculture and Renewables contributing to society  
Working towards a Green Recovery

## Increase Farmers Incomes

4,000 farmers sell directly to customers through our stores improving their revenues

## Agriculture and Local Development

Jobs for 35 disabled individuals  
Agriculture internships for 46 university students

## Safe Electricity

Producing enough renewable energy to reduce CO<sub>2</sub> emissions by an equivalent of 30,000 households

## Energizing the Earth

Establishing renewable energy on 500 abandoned farmland locations to help diversify farmers revenues

### Farmdo

食の駅・農援<sup>YS</sup>

Local Production for Local Consumption



18  
Locations

Chison Marche  
地産マルシェ<sup>®</sup>

Fresh Produce for Metro Area



16  
Stores

### Farm Club

#### Green Houses

Strawberry · Tomato · Lettuce



72  
Locations

#### Agriculture Support

Nurturing Future Farmers



81  
Workers

### Farm Land

#### Solar Power Plant

Use of Fallow Land



170  
Plants

#### Wind Power Plant

Helping Global Environment

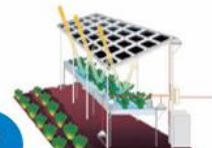


9  
Plants

### Solar Farm<sup>®</sup>

#### Climate Change Adaptation

MOA White Paper Inclusion



50  
Locations

#### Over Seas Business

Mongolia · Chile



2  
Countries

## DFT Hydroponics



## Soil Cultivation with Mulch



## New Initiative – Utilizing Cocopeat Growing Medium







## Mongolia



**28 ha farm near  
Ulaanbaatar**

**Solar Capacity  
: 12.7MWdc**

**Expected CO<sub>2</sub>  
emission  
reduction over  
project lifetime  
: 200,000t**

**COD  
: Nov. 2017**

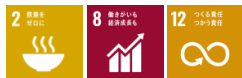
**2013 Established joint venture Everyday Farm LLC  
Conducted JICAs 5<sup>th</sup> Cooperation study  
(Promotion of BOP Business Cooperation)**

**2015, 2016 Received JCM subsidy each year**

## Initiatives at Everyday Farm LLC



Creating employment opportunities for women to reduce the gender-pay-gap through implementation of gender-balanced hiring policies.



Last year we produce and delivered 27 tons of high quality, fresh produce to Ulaanbaatar. Using the revenue from sales of solar energy investment in new agriculture technology is made, improving the annual output of the farm.



Solar power reduces carbon intensity of the local grid which relies heavily on coal burning fire plants. This in turn improves the air quality of Ulaanbaatar.



## Chile



①Chilan／②Malvilla

**Solar Capacity**  
: 2, 3MW plants

**Expected CO<sub>2</sub>  
Emission Reduction  
Over Project Lifetime**  
: **7万t**

**Expected COD**  
: ①March 2020  
②August 2020

- 2019** Secured JCM subsidy and established Joint venture Farmdo Energy Chile SpA.
- 2020** Secured second JCM subsidy  
Collaboration with Ministry of Agriculture to construct pilot solar farm (to be built 2021)



## Chilean Ministry of Agriculture



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## Goals

- To spread our model of agriculture to small and medium sized farmers in Chile through collaboration with the Ministry of Agriculture by building a pilot project at the research site of the Ministry  
(Construction July 2021)
- In 2022, spread the model to 50 farmers
- Within 5 years, have spread to 200 farmers



Solar Farm® in Gunma prefecture Japan  
growing cabbage

## Realizing dreams through **Positive Thinking**

With a Dream	develop a Goal
With a Goal	create a Plan
With a Plan	take Action
With Action	get Results
With Results	make Analysis
With Analysis	have Growth
With Growth	find a Dream



## Realizing dreams through **Positive Thinking** A real world example

Dream : 「Renewables」×「Agriculture」 contribute to SDGs

Goal : Spread Solar farm® to 10 countries in 20 years

Plan : Apply for a ne JCM project every year

Action : First entry into countries with JCM subsidy

Result : Established business in Mongolia

Analysis : Develop knowhow for entry into new countries

Growth : Expanded into Chile and plans for Asia and Africa



**Thank you**