

# THE JCM PROJECT DEVELOPMENT BY OECC



BILATERAL BUSINESS MATCHMAKING EVENT FOR  
THE JOINT CREDITING MECHANISM

*07 November 2018*

*Corporate Convention Centre, UB Hall*

Wakana ERIGUCHI

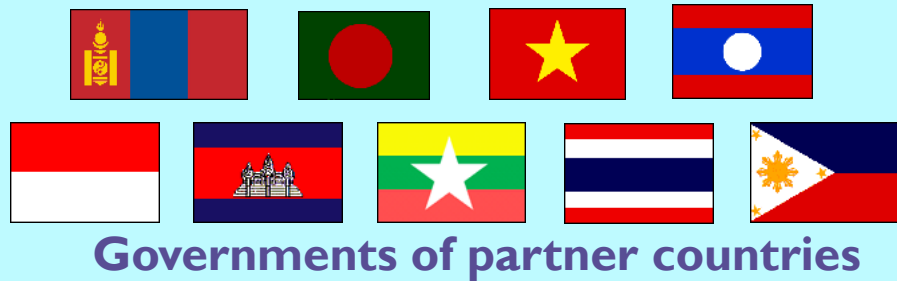
Oversees Environmental Cooperation Center (OECC)

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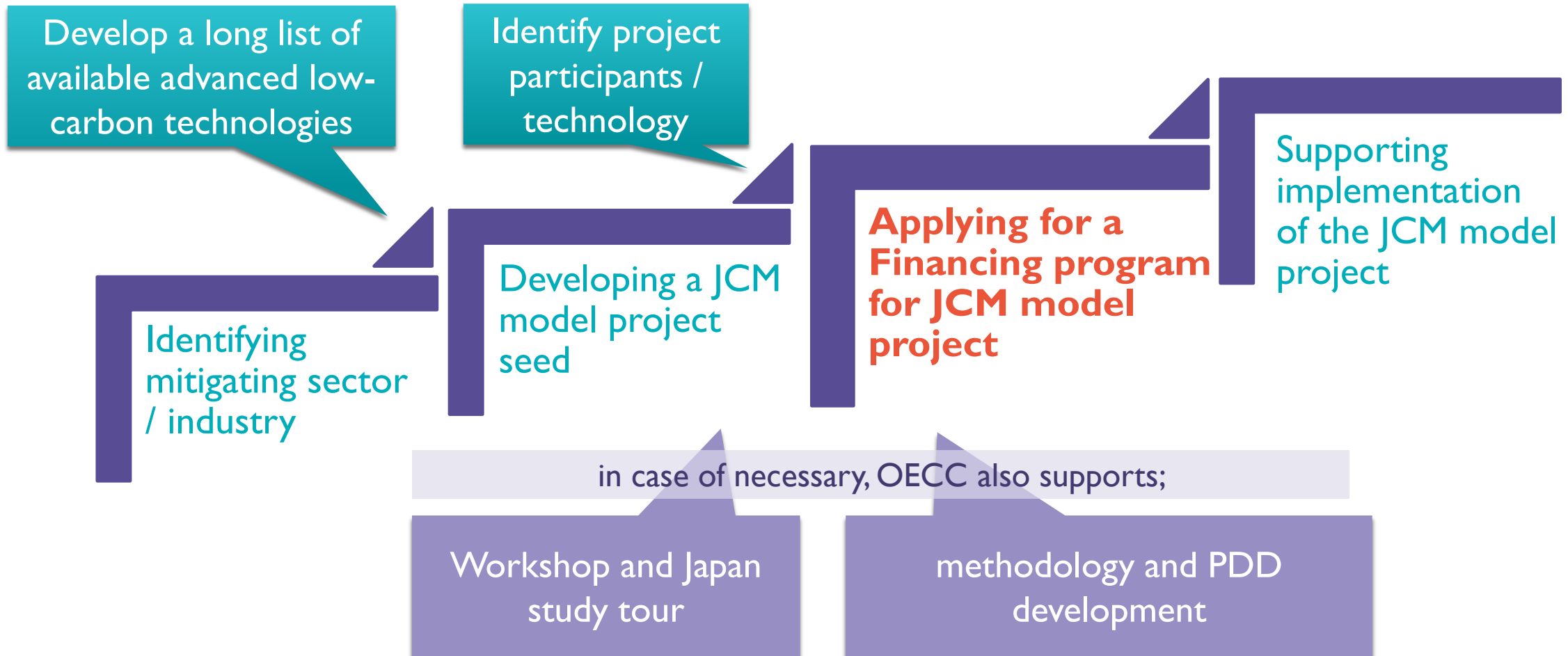
- Frame work of JCM Project Development and the support from OECC
- Tips and examples of the JCM Model Projects

# FRAMEWORK OF THE JCM PROJECT DEVELOPMENT

- The **JCM Project Development** aims to (1) develop JCM model projects in accordance with local needs and (2) promote project implementation with advanced low carbon technologies.
- OECC works with 9 countries in FY2018 (Mongolia, Bangladesh, Viet Nam, Laos, Indonesia, Cambodia, Myanmar, Thailand and the Philippines.)



# ACTIVITY FLOW OF THE JCM MODEL PROJECT DEVELOPMENT AND THE SUPPORT FROM OECC

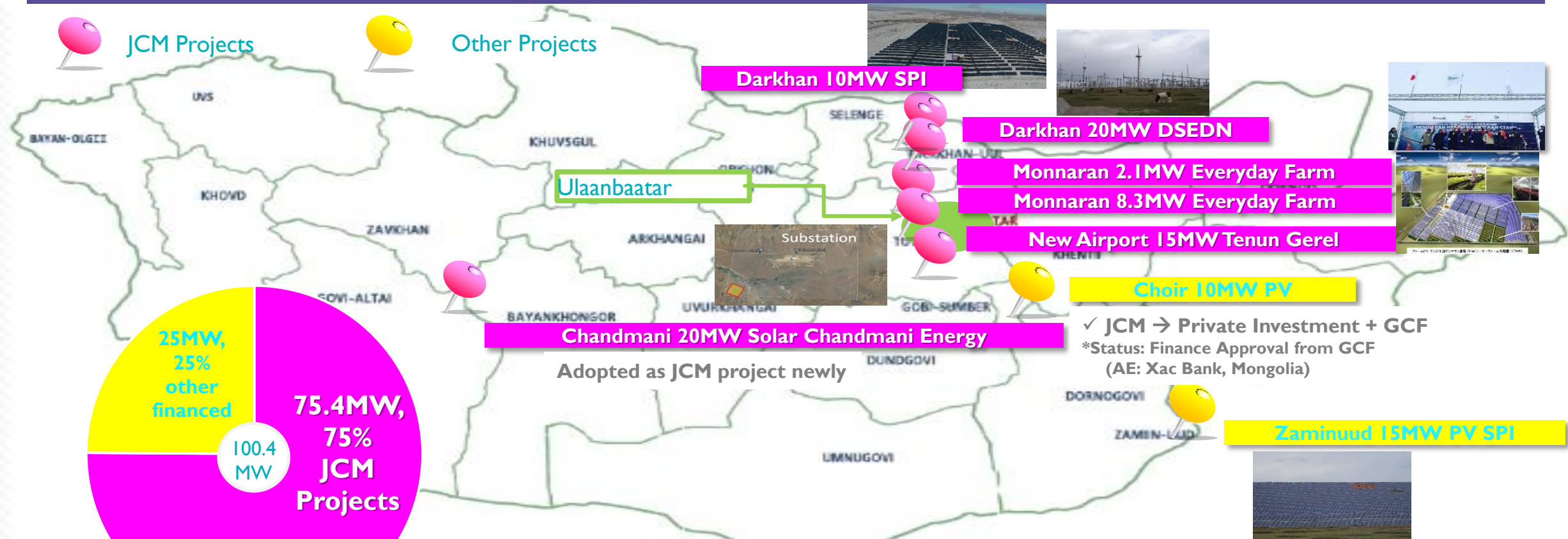


# ON-GOING JCM MODEL PROJECTS DEVELOPED BY OECC

(Note: As of Oct 2018, italic projects in bold have started operations)

Year	Partner country	Technology introduced and project boundary	GHG reduction (tCO <sub>2</sub> /year)
2018	Mongolia	21MW Solar PV in Bayanchandmani	27,008
2017	Mongolia	20MW Solar PV in Darkhan City	22,927
2017	Mongolia	15MW Solar PV in New Airport Suburb	18,438
2017	Indonesia	Absorption Chiller at Chemical Factory	1,084
2017	The Philippines	1.2MW Solar PV at Refrigerating Warehouse	838
2017	The Philippines	1.53MW Solar PV at Auto Parts Factories	1,124
2017	Laos	Amorphous Transformers in Nationwide Power Grids	2,099
2017	Viet Nam	Amorphous Transformers in Southern and Central Power Grids II (phase 4)	1,469
2016	Thailand	1.5MW Solar PV and EMS at Paint Factory	1,344
2016	Cambodia	800kW Solar PV project at International School	772
2016	Mongolia	8.3MW Solar PV at Farm in Ulaanbaatar Suburb	10,580
<b>2016</b>	<b>Viet Nam</b>	<b>Amorphous Transformers in Northern, Central and Southern Power Grids (phase 3)</b>	<b>2,098</b>
<b>2015</b>	<b>Mongolia</b>	<b>10MW Solar PV in Darkhan City</b>	<b>14,746</b>
<b>2015</b>	<b>Mongolia</b>	<b>2.1MW Solar PV at Farm in Ulaanbaatar Suburb</b>	<b>2,707</b>
<b>2015</b>	<b>Bangladesh</b>	<b>High Efficiency Loom at Weaving Factory</b>	<b>1,518</b>
<b>2015</b>	<b>Bangladesh</b>	<b>340kW PV-diesel Hybrid System at Fastening Manufacturing Plant</b>	<b>265</b>
<b>2015</b>	<b>Viet Nam</b>	<b>Amorphous Transformers in Southern and Central Power Grids (phase 2)</b>	<b>3,564</b>
<b>2014</b>	<b>Viet Nam</b>	<b>Amorphous Transformers in Southern Power Grids (phase 1)</b>	<b>610</b>

# THE CASE OF MONGOLIA: JCM'S CONTRIBUTION TO NDC (75% OF SOLAR PV FACILITIES SUPPORTED BY THE JCM AS OF JUNE 2018)



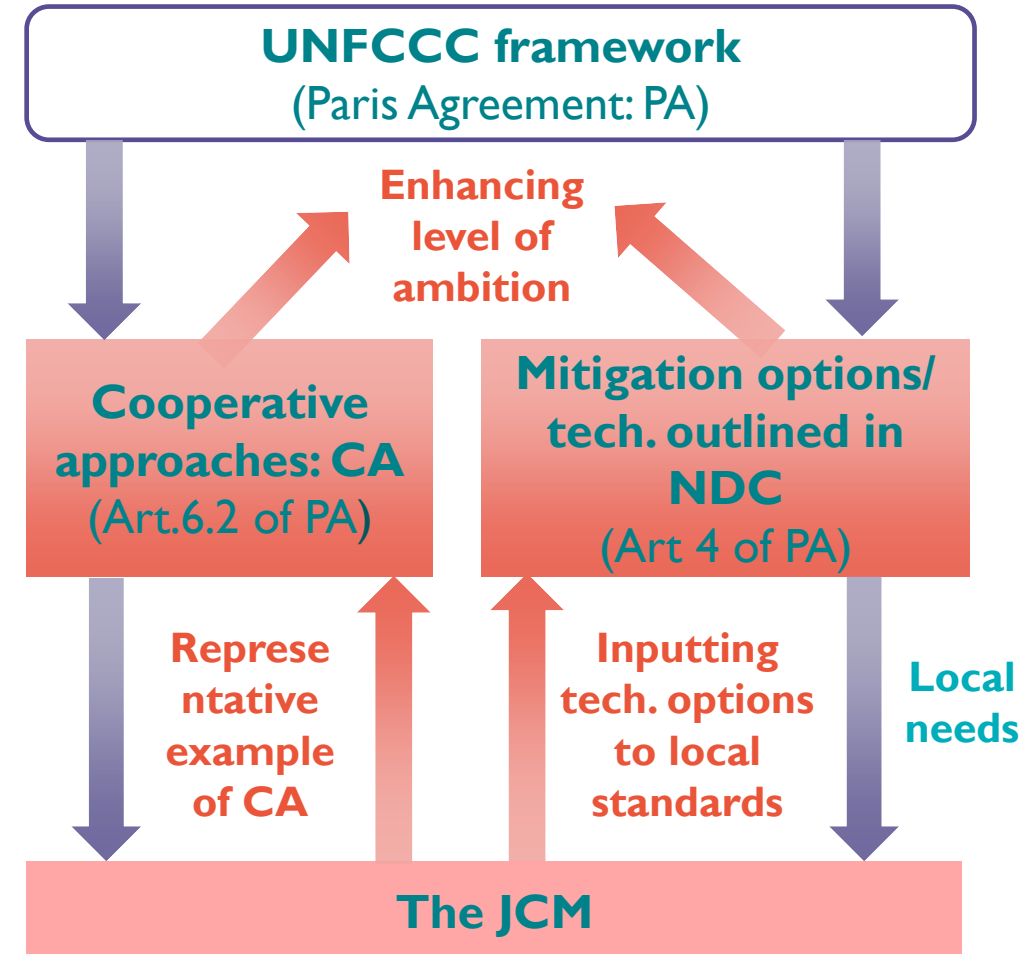
- ✓ **JCM related Contribution for NDC in Mongolia: 75 MW**
- ✓ **Private Investment PV Project by the trigger of successful JCM projects: 25MW**

# WHAT KIND OF ASPECTS SHOULD WE TAKE INTO ACCOUNT IN PROJECT DESIGN? TIPS GAINED THROUGH THE JCM EXPERIENCE

## I. Alignment with prioritized sector outlined in NDC: Country ownership/Governance

- Based on the experience of supporting NAMA development in Asia using the MOEJ program, the OECC has encouraged PPs to formulate projects which partner countries' NAMA/NDC have a focus on.

e.g. Solar Farm® Project developed in Mongolia is aligned with the 145 MW installation target of solar PV facilities.



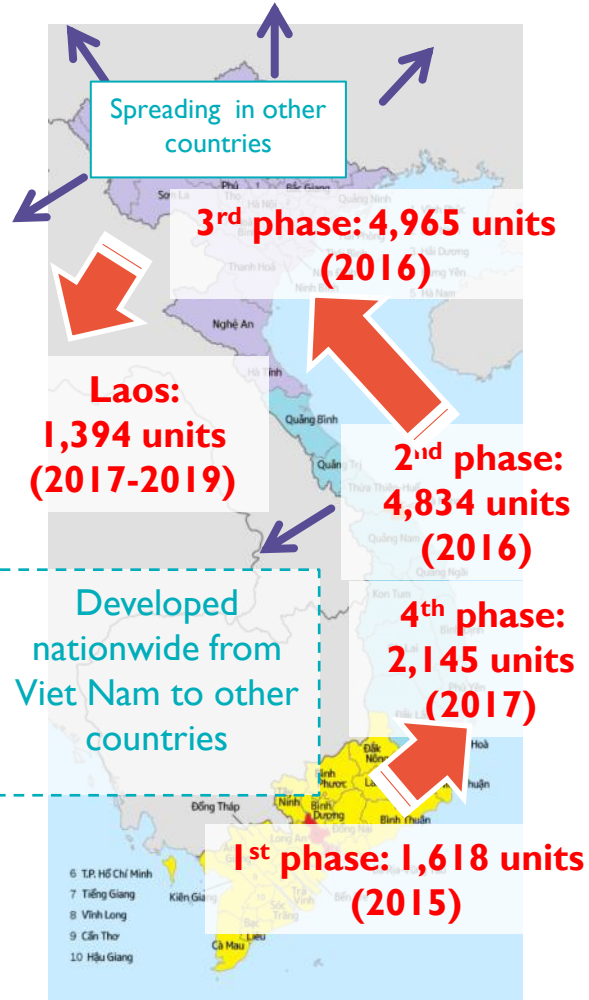
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## 2. Consideration of long-term impact: Starting with the pilot project, “showcase” placement to scaling-up!

- Organizing workshops in Hanoi to share the benefit of the project (2015)



- As the impact widely recognized, local energy distribution company included specifications for obtaining the technology in its procurement standard.





# THE POSSIBLE CASES IN MONGOLIA

## CASE1: FUEL CONVERSION (COAL/DIESEL → LPG)



1. Scrap metal → electric heating furnace

2. Ladle (To heat up to 1200°C and stir)

3. Tundish (Molten metal is poured into the mold to purify "Billet".)

4. Heating furnace (To heat 'Billet' by using Coal gas (1150°C- 1250°C) )

Ladle

Diesel → LPG

Heating furnace

Coal gas → LPG

Tundish

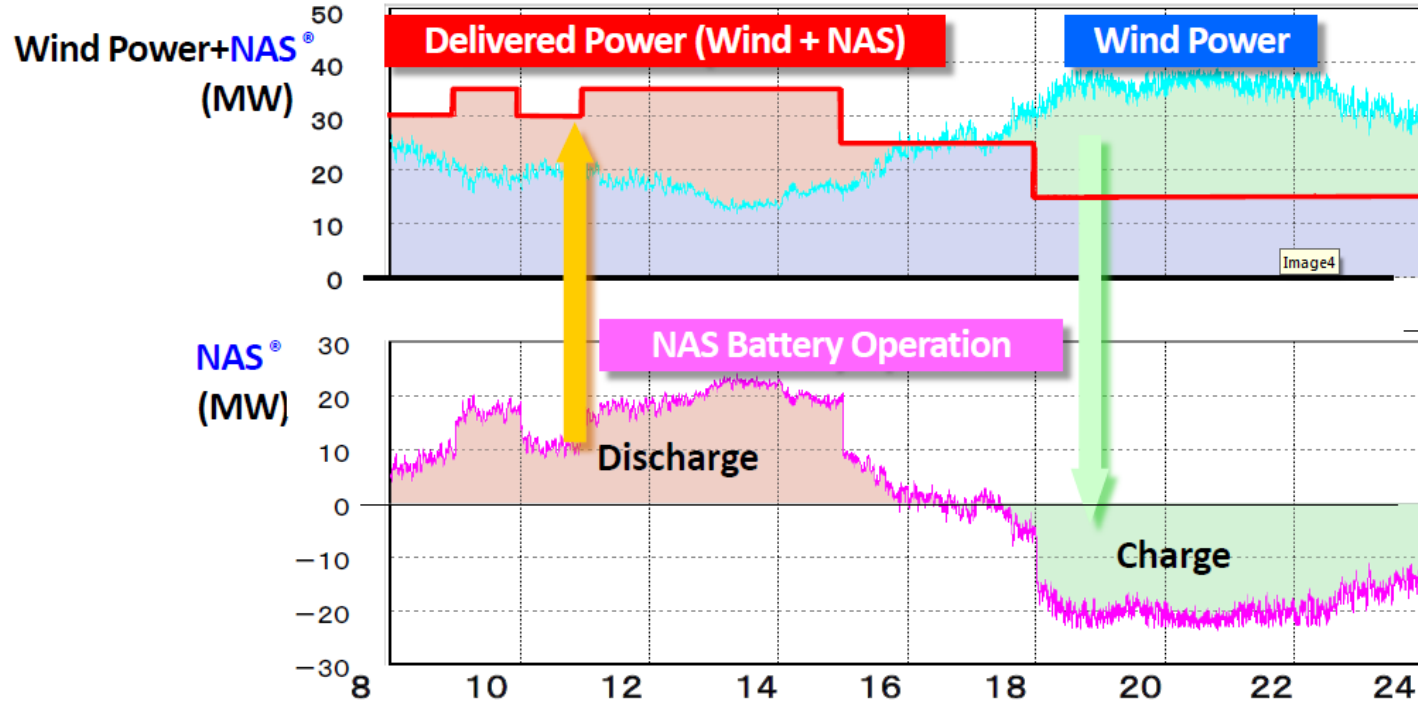
Diesel → LPG

Reheating furnace

Coal gas → LPG

# THE POSSIBLE CASES IN MONGOLIA

## CASE1: RENEWABLE ENERGY (ESS)



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- **Projects in the pipeline at a glance in JCM brochure !**

[https://www.carbon-markets.go.jp/eng/en\\_publications/](https://www.carbon-markets.go.jp/eng/en_publications/)

- **OECC's activities related to the JCM is available at**

<https://www.oecc.or.jp/en/activity/jcm/>

