

Tips and Findings of JCM Project Development in Mongolia

Second Bilateral Business Matchmaking Event for the Joint Crediting Mechanism

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- Tips and examples of the JCM Model Projects in Mongolia
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Role of OECC in JCM Model Project

OECC works for the project findings and development in 9 Asian Countries in FY2019 .
(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



Identify project participants / technologies

Identifying mitigating sector / industry

Developing a JCM model project seed

Applying for a Financing program for JCM model project

Supporting implementation of the JCM model project

Workshop and Japan study tour

methodology and PDD development

Advice for the application development

Develop a long list of available advanced low-carbon technologies

in case of necessary, OECC also supports for ;

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the JCM model project

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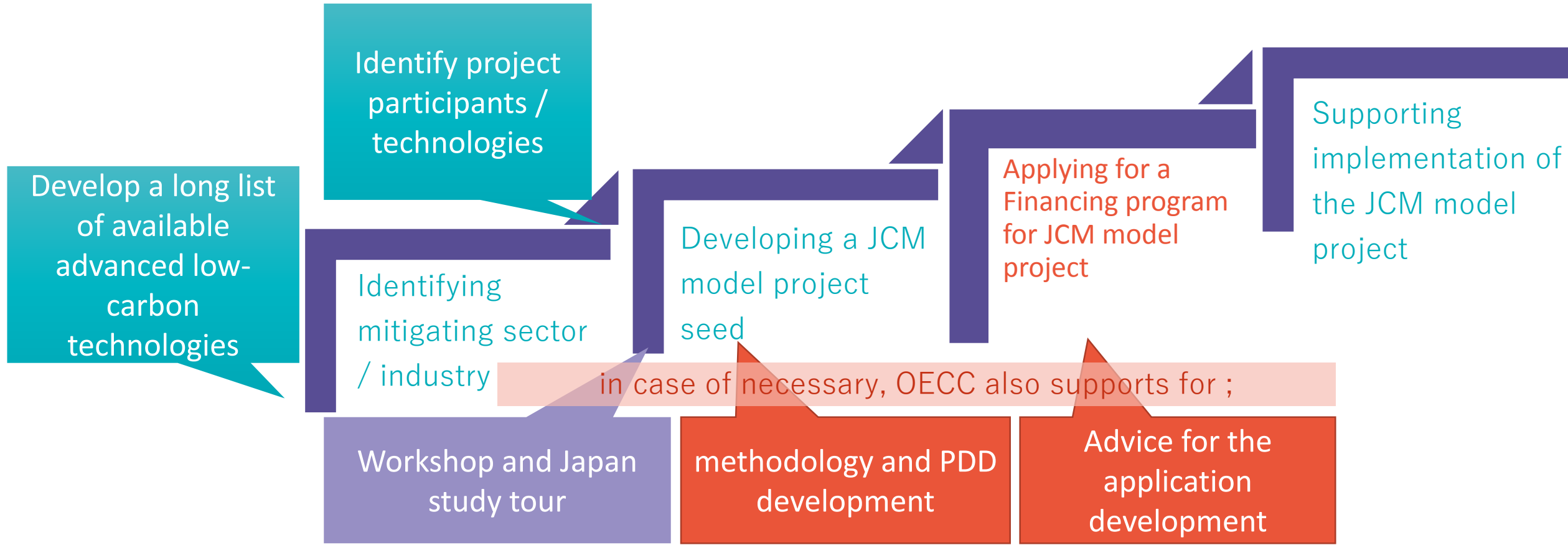
Workshop and Japan study tour

methodology and PDD development

Advice for the application development



Activity flow of the JCM model project development and the support from OECC

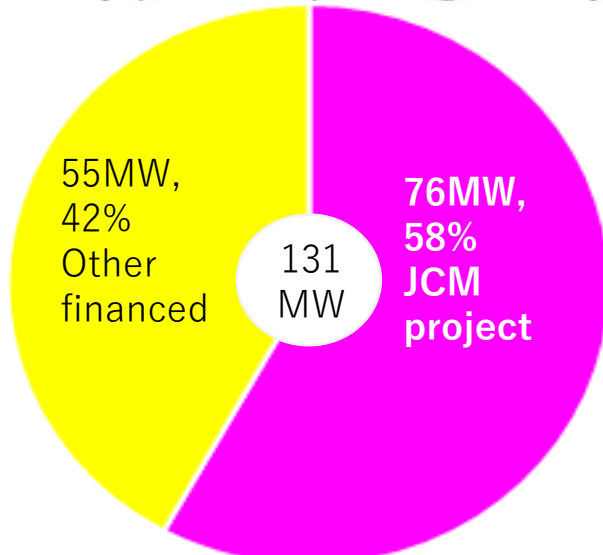
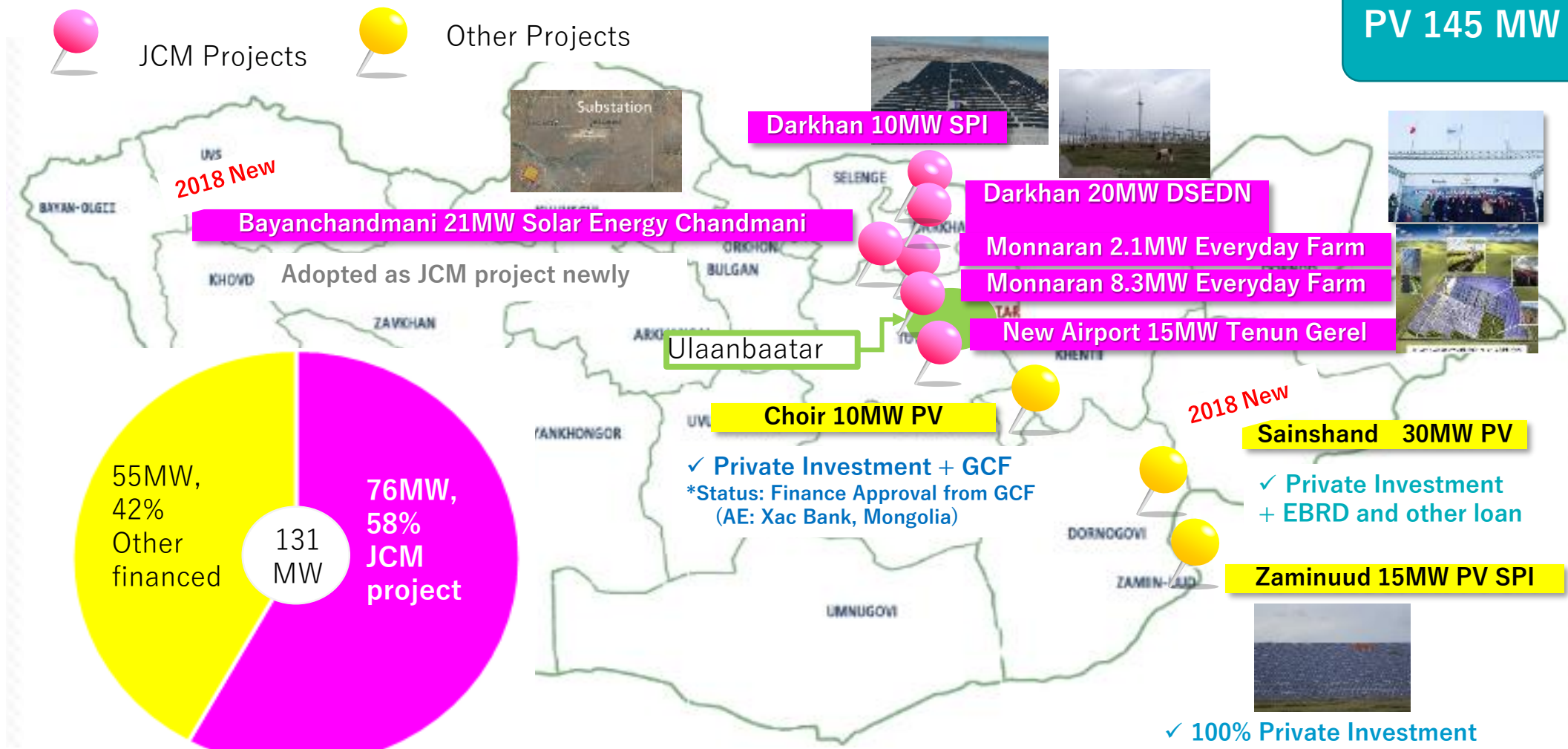


On-going JCM model projects consulted by the OECC

Year	Partner country	Technology introduced and project boundary	GHG reduction (tCO ₂ /year)
2019	Philippines	Biogas Power Generation and Fuel Conversion Project in Pineapple Canneries	52,156
2019	Mongolia	Fuel Conversion by Introduction of LPG Boilers to Beverage Factory	5,781
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
2016	Viet Nam	Amorphous Transformers in Northern, Central and Southern Power Grids (phase 3)	2,098
2015	Mongolia	10MW Solar PV in Darkhan City	14,746
2015	Mongolia	2.1MW Solar PV at Farm in Ulaanbaatar Suburb	2,707
2015	Bangladesh	High Efficiency Loom at Weaving Factory	1,518
2015	Bangladesh	340kW PV-diesel Hybrid System at Fastening Manufacturing Plant	265
2015	Viet Nam	Amorphous Transformers in Southern and Central Power Grids (phase 2)	3,564
2014	Viet Nam	Amorphous Transformers in Southern Power Grids (phase 1)	610

The Case of Mongolia: JCM's contribution to NDC

PV 145 MW by 2030



*JCM related Contribution for NDC in Mongolia: 76 MW
 *Private Investment PV Project by the trigger of successful JCM projects: 55MW

The Challenge on the Renewable Energy Project in Mongolia

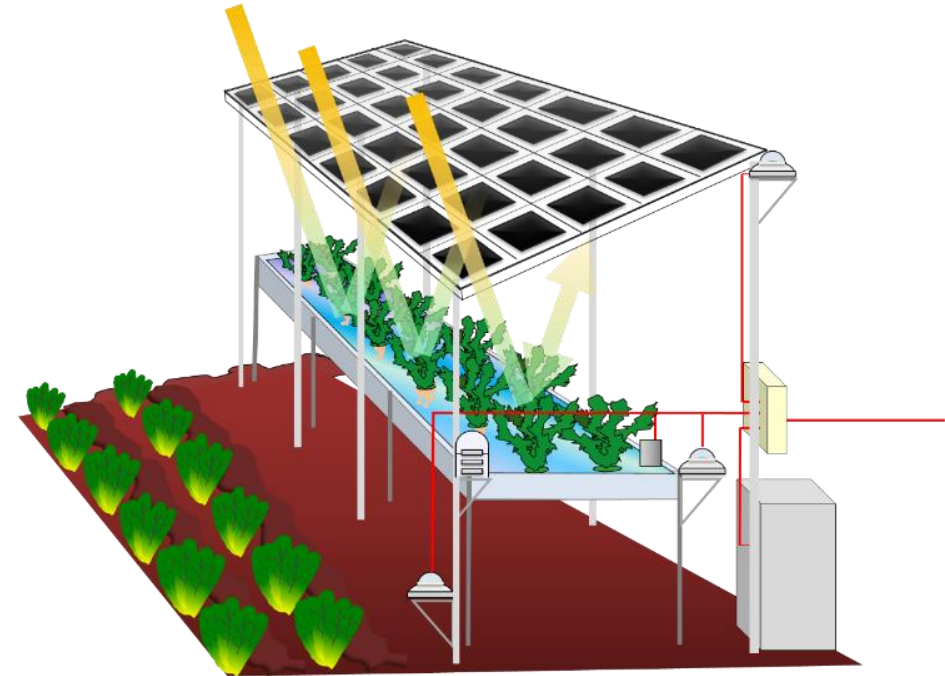
The technical requirement on New Solar and Wind Power Project

- ◆ Solar Power: with 20% X 4 hours of rated capacity of battery
- ◆ Wind Power: with 40% X 4 hours of rated capacity of battery

The JCM Potential Technologies in Mongolia

Potential Technology 1:

Tips : Off Grid Renewable Energy



Solar Farm® Project by Farmdo and Everyday Farm.

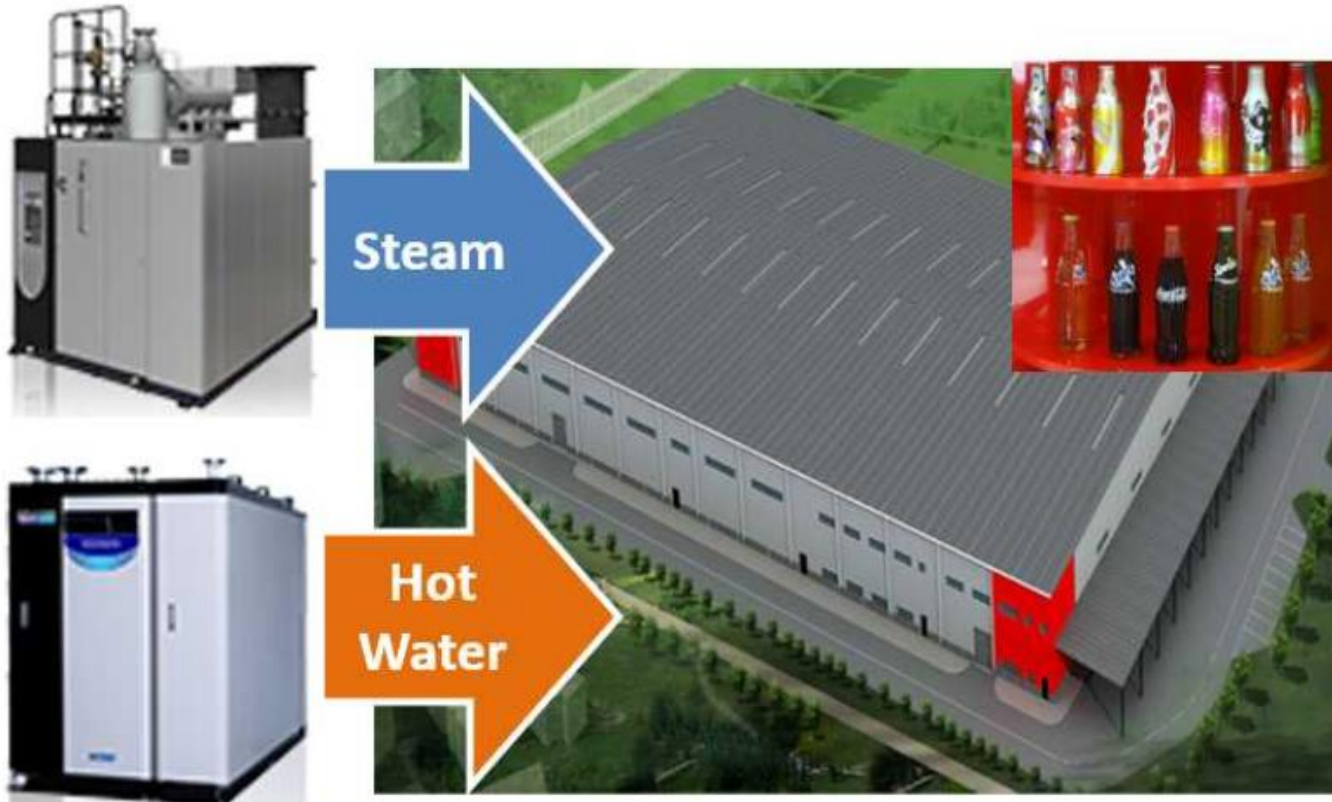
Clean energy supply and safe and fresh vegetables/fruits by IoT.

→Contribute to the society (Air Pollution, food supply)

The JCM Potential Technologies in Mongolia

Potential Technology 2 :

Fuel Conversion



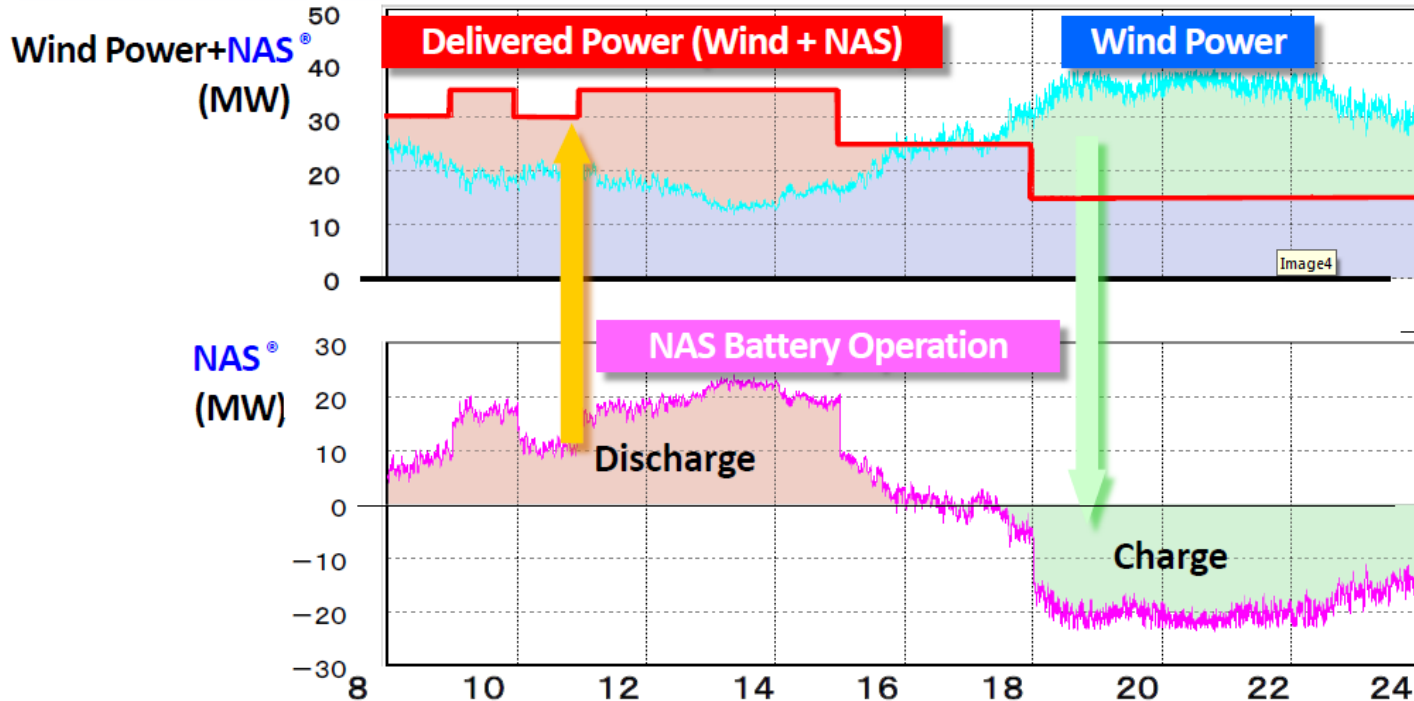
Fuel Conversion by Introduction of LPG Boilers

By introducing the most efficient and newest model of LPG once-through boilers and vacuum type water heaters, the efficiency of the system is improved with less fuel consumption.

The JCM Potential Technologies in Mongolia

Potential Technology 3:

Renewable Energy Storage System

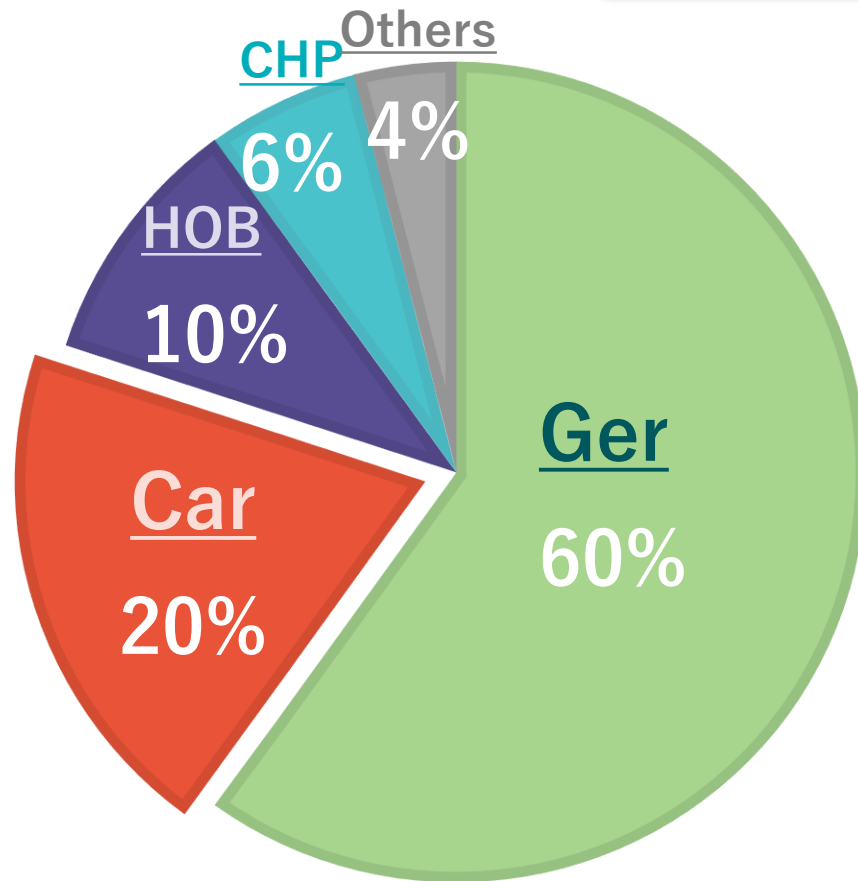


→ Contribute to Energy Security

The JCM Potential Technologies in Mongolia

Potential Technology 4:

Electric Vehicle



→ Contribute to
Air Pollution, Reducing running cost

Air pollution sources in Ulaanbaatar

Presentations by Japanese companies

Saisan Co., Ltd.

Introduction of LPG-Fired Boilers as Replacement of Existing Coal-Fired Boilers (Fuel conversion Project) in MCS Coca Cola Factory in Ulaanbaatar

NGK Insulators, LTD.

High-Capacity Storage Battery Technology (NAS) for Power Grid Systems for the Introduction of Renewable Energy

Nissan Motor Co., Ltd.

High-Performance Electric Vehicle

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Carbon Market Express: <https://www.carbon-markets.go.jp/eng/>



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