

JCM PROJECTS CONTRIBUTIONS TO MONGOLIAN NDC AND SDG'S

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COP25 side event:

**How the JCM can contribute to
NDC implementation and SD**

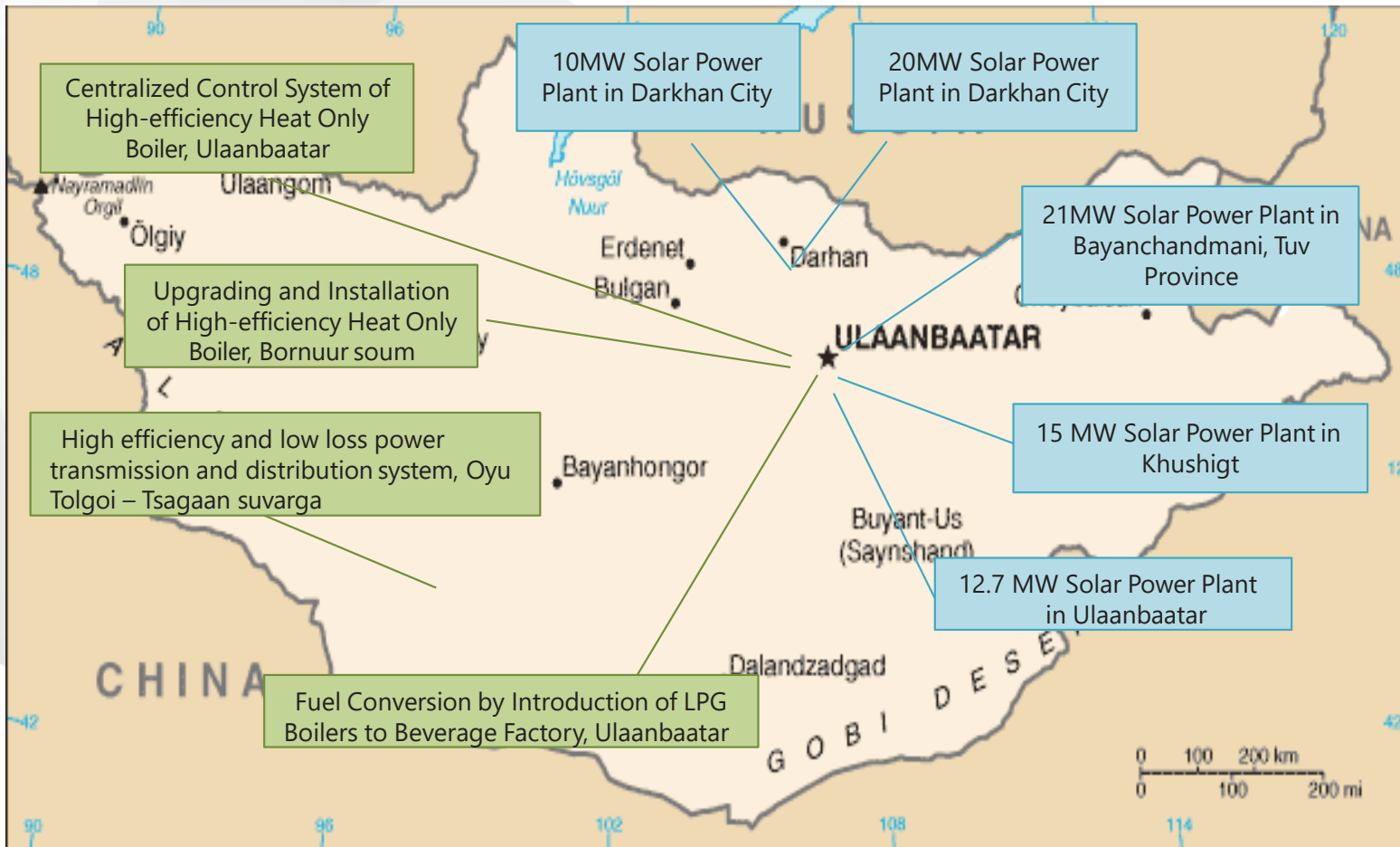
10 December 2019, Madrid



GOVERNMENT OF
MONGOLIA



MINISTRY OF ENVIRONMENT
AND TOURISM

PROJECTS ARE BEING IMPLEMENTING IN MONGOLIA



PROJECTS PLANNED TO BE IMPLEMENTED BY THE JCM:

- 20MW Solar Power Project in Darkhan City Khongor Soum
- 21MW Solar Power Project in Bayanchandmani, Tuv province
- 5MW Solar PV system, advanced battery system and energy management system, Uliastai, Zavkhan province

-  - Energy efficiency projects
-  - Renewable energy projects

COMPARISON OF THE JCM PROJECTS EMISSION REDUCTION

PROJECT TITLE	ELECTRICITY GENERATION PER YEAR (KWh)	EMISSION REDUCTION (tCO ₂ -eqv.)	SAVING (ton)		NUMBER OF EMPLOYEE (pers.)	HARVEST (ton)
			COAL	WATER (compared to CHP)		
15 MW Solar Power Plant near to New Airport	30.144.356	18.438	23.420	146.500	12-17	
10 MW Solar Power Plant in Darkhan city	15.300.000	11.211	11.102	145.000	11	
12.7 MW Solar Farm project in Ulaanbaatar suburb area	15.700.000	14.156	16.600	103.990	30	10.2 (19 types of veggies)
PROJECT TITLE	HEAT GENERATION PER YEAR (GJ)	EMISSION REDUCTION (tCO ₂ -eqv)	REDUCTION OF COAL CONSUMPTION (ton)		NUMBER OF EMPLOYEE (pers.)	WATER CONSUMPTION PER YEAR (ton)
			BEFORE	AFTER		
High-efficiency Heat Only Boiler (HOB) project in <u>Bornuur soum</u>	7396	206	1100	831	11	15
High-efficiency Heat Only Boiler (HOB) project in 118 th school	3792	92	520	392	7	3.6

JCM PROJECTS CREDIT ISSUANCE / CO2 REDUCTIONS

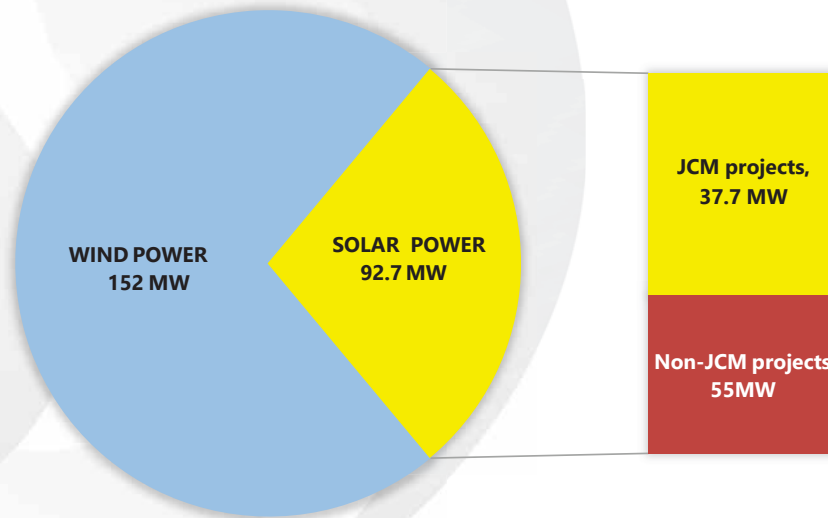
- JCM partnership document is signed by 17 countries. Currently, a total of **18,154 t-CO₂e** credits issued for Mongolia whereas so far **7** countries have been issued **27,368 t-CO₂e** credits for the 27 projects.

Country	Dates	Credit issuance (1 credit =т/CO ₂)		
		Total	Japan	Project implementer (by country)
Indonesia	2016/05/12 2018/07/10	745	450	295
Mongolia	2016/09/29 2017/10/24 2018/11/6	18,154	14,522	3,632
Vietnam	2017/10/10 2018/8/15	4,410	2,691	1,719
Palau	2016/12/19 2018/01/30	881	659	222
Thailand	2018/04/20	2,819	1,411	1,408
Laos	2019/1/18	207	174	33
Maldives	2019/07/10	152	78	77

SUPPORTS MONGOLIA'S CLEAN ENERGY TARGET

AS OF TODAY, TOTAL INSTALLED RENEWABLE ENERGY CAPACITY OF MONGOLIA IS 264.7 MW

INSTALLED CAPACITY OF SOLAR AND WIND POWER PLANTS IN MONGOLIA



Source: Ministry of Energy Mongolia



**-Total installed capacity
20MW**



**-Total installed capacity
92.7MW**



**-Total installed capacity
152MW**

So far the JCM Financing Programme has contributed to approx. **16%** of clean electricity generation from solar and wind power

SUPPORTS MONGOLIA'S EFFORTS TO ADDRESS AIR POLLUTION

CASE 1: Upgrading and Installation of Centralized Control System of High-efficiency Heat Only Boiler in Bornuur soum

- Centralized control system
- High-efficiency heat only boilers
- Improvement of boiler efficiency reduces coal consumption, CO₂ emissions, and other air pollutants
- Lower emissions from heating system



CONTRIBUTES TO SDG'S

“Sustainable Development Contribution Plan and Report” tool is approved by the Joint Committee in 2018. All JCM projects must complete this document.

Case 2: 12.7 MW Solar Farm project.

The purpose of this project is to reduce CO₂ emission, mitigate air pollution and stabilize power supply in Mongolia by installing 12.7MW scale solar power plants in the suburbs of Ulaanbaatar.

GHG emission reduction is – 8880 t/CO₂. Credit issued in 2018.



Moreover, lots of achievements in daily life, mitigating air pollution, resolving power shortage, food supplying, etc., can be expected by synergy of agricultural and solar power generation technology.

- Introducing solar energy in the power system reduces GHG emission; and increasing clean, affordable, and sustainable energy in the country
- Building resilient and sustainable infrastructure in Mongolia; and strengthening developing country's technological capacity to move towards more sustainable production
- Increasing solar power generated electricity reduces coal consumption in a power plant; reducing air pollution
- Mobilizing financial and technical support from different sources and encourages public and private participation





THANK YOU!

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