

JCM Sustainable Development Contribution Report Form**A. Project description**

A.1. Title of the JCM project

Installation of 12.7MW Solar Power Plant for Power Supply In Ulaanbaatar Suburb

A.2. General information of project

Reference Number	MN003
Registration date	26 /05/ 2017
Monitoring period	01/06/2018 - 31/12/2020

B. Contribution to Sustainable Development

B.1 Check list for prevented negative impacts and for contribution to SD

No.	Items		Not identified	Identified	If a box under “Identified” is marked, please describe the corrective actions	
1	Policy alignment	Project failed to align with current domestic policies or programs relevant to its sector, technology, and/or geographical area	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
2	Environmental Impact Assessment (EIA)	Project did not meet the regulatory requirements of EIA reporting to the Government of Mongolia	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
3	Pollution Control	Occurrence of pollution in ambient air quality	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
4		Occurrence of pollution in water quality	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
5		Occurrence of waste generation, including electronic waste and refrigerants	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Some general and electronic wastes were generated. Those wastes were properly transported and treated in line with the local regulations and company plan for proper disposal.	
6		Occurrence of noise and/or vibration	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
7		Occurrence of ground subsidence	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
8		Occurrence of ambient odor	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
9		Safety and health	Occurrence of accident or occupational accident	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
10		Natural Environment and biodiversity	Change of protected area conditions	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
11	Change of land use change and ecosystem conditions		<input checked="" type="checkbox"/>	<input type="checkbox"/>		
12	Introduction of foreign species		<input checked="" type="checkbox"/>	<input type="checkbox"/>		
13	Environmental impact during construction		<input checked="" type="checkbox"/>	<input type="checkbox"/>		
14	Use of surface water, ground water and/or deep ground water		<input type="checkbox"/>	<input checked="" type="checkbox"/>	Not required for electricity production but the Agriculture Department uses four wells of ground water for farming operations	
15	Economy	Decrease in local workforce capacity	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
16		Decline in local community welfare	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
17	Social Environment and Community Participation	Occurrence of resettlement or conflict	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
18		Failure to follow up comments and complaints successfully	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
19		Violation of regulatory labour and working conditions	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
20	Technology	Failure to build human and institutional capacity by technology transfer, trainings, and technical assistance for operation and maintenance of technology	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
21		Failure to provide technology specification and manual book at least in English and in Mongolian language as applicable	<input checked="" type="checkbox"/>	<input type="checkbox"/>		

No.	Items	Not identified	Identified	If a box under "Identified" is marked, please describe the corrective actions
22	Failure to develop human resources abilities of the local community involved in the preparation stage of the project	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

C. Contribution to Sustainable Development Goals

C.1 Check list for contribution to SDGs

SDG No.	Which of the SDG(s) below did the project identify itself as contributing to within the monitoring period?	Identified	If identified, please describe the contribution(s)
1	End poverty in all its forms everywhere	<input type="checkbox"/>	
2	End hunger, achieve food security and improved nutrition and promote sustainable agriculture	<input checked="" type="checkbox"/>	The project has introduced solar sharing using greenhouses to extend the farming season, increasing volume of fresh vegetables locally available and collaborated with local farmers to provide them with opportunities to produce value added crops as specified under SDG 2 particularly target 2.3.
3	Ensure healthy lives and promote well-being for all at all ages	<input checked="" type="checkbox"/>	By providing the grid with energy produced through non-CO2 emitting means, the project has helped to improve the air quality of Mongolia. It may have contributed to a reduction in premature deaths as a cause of hazardous air quality as specified in SDG 3 particularly target 3.9.
4	Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all	<input checked="" type="checkbox"/>	By holding agriculture training seminars, the project provides non-formal vocational training to local farmers of which about 50% were female in the last 12 months contributing to equal opportunity to education as specified in SDG 4 particularly target 4.3.
5	Achieve gender equality and empower all women and girls	<input type="checkbox"/>	
6	Ensure availability and sustainable management of water and sanitation for all	<input type="checkbox"/>	
7	Ensure access to affordable, reliable, sustainable and modern energy for all	<input checked="" type="checkbox"/>	Since the start of the project in 2017 it has generated 55,566MWh through solar PV increasing the renewable energy mix of the national grid of Mongolia and global energy mix as specified in SDG 7 particularly target 7.2.
8	Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all	<input type="checkbox"/>	
9	Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation	<input checked="" type="checkbox"/>	The project has been financed partially by the JCM subsidy facilitating sustainable and resilient infrastructure in the energy sector of Mongolia, a land locked country, as specified in SDG 9 particularly target 9.a.
10	Reduce inequality within and among countries	<input type="checkbox"/>	
11	Make cities and human settlements inclusive, safe, resilient and sustainable	<input checked="" type="checkbox"/>	By providing the grid with non-thermal based energy, the project has helped to reduce reliance on imported fuel and improved the air quality of Mongolia. It may have contributed to a reduction in premature deaths caused by a disruption to basic services such as energy and hazardous air quality as specified in SDG 11, particularly targets 11.5 and 11.6.
12	Ensure sustainable consumption and production patterns	<input checked="" type="checkbox"/>	Through the implementation of the project, local engineers employed have been trained and gained experience in the construction and operation of solar plants increasing the country's technological capacity to move towards more suitable patterns of sustainable consumption as specified in SDG 12 particularly target 12.a.

SDG No.	Which of the SDG(s) below did the project identify itself as contributing to within the monitoring period?	Identified	If identified, please describe the contribution(s)
13	Take urgent action to combat climate change and its impacts	<input checked="" type="checkbox"/>	Since the start of the project in 2017 it has reduced emissions in Mongolia by 44,219 tons of CO2 contributing to the national policy of Mongolia to combat climate change as specified in SDG 13, particularly target 13.2.
14	Conserve and sustainably use the oceans, seas and marine resources for sustainable development	<input type="checkbox"/>	
15	Protect, restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, and halt and reverse land degradation and halt biodiversity loss	<input type="checkbox"/>	
16	Promote peaceful and inclusive societies for sustainable development, provide access to justice for all and build effective, accountable and inclusive institutions at all levels	<input type="checkbox"/>	
17	Strengthen the means of implementation and revitalize the Global Partnership for Sustainable Development	<input checked="" type="checkbox"/>	As one of the first 5 JCM projects in Mongolia, it has mobilized financial resources and promoted the development, transfer, dissemination and diffusion of environmentally sound technologies as specified in SDG 17, particularly targets 17.3 and 17.7.