

Status of JCM in Mongolia and JFJCM project

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Outline

- JCM in Mongolia
- Energy Efficiency and Urban Environment Improvement Project
- Subcomponent of the project approved for JFJCM

JCM in Mongolia

- Mongolia is the first to launch Joint Crediting Mechanism (JCM) on 8 January 2013, out of the 16 countries that signed bilateral agreements with the Government of Japan



JCM in Mongolia

- Registered projects

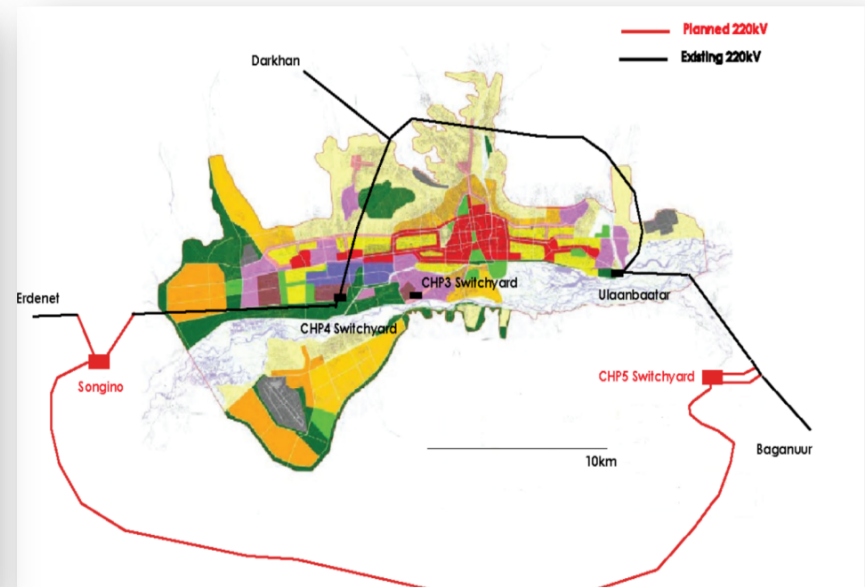
Project title	Reg. date	Emission reduction	Project Participants	
			Mongolia	Japan
Centralization of heat supply system by installation of high-efficiency Heat Only Boilers in Bornuur soum Project	30 Jun 2015	206 tCO ₂ p.a.	Anu Service Co., Ltd.	Suuri-Keikaku Co., Ltd.
Installation of high-efficiency Heat Only Boilers in 118th School of Ulaanbaatar City Project	30 Jun 2015	92 tCO ₂ p.a.	Anu Service Co., Ltd.	Suuri-Keikaku Co., Ltd.

- Approved methodologies

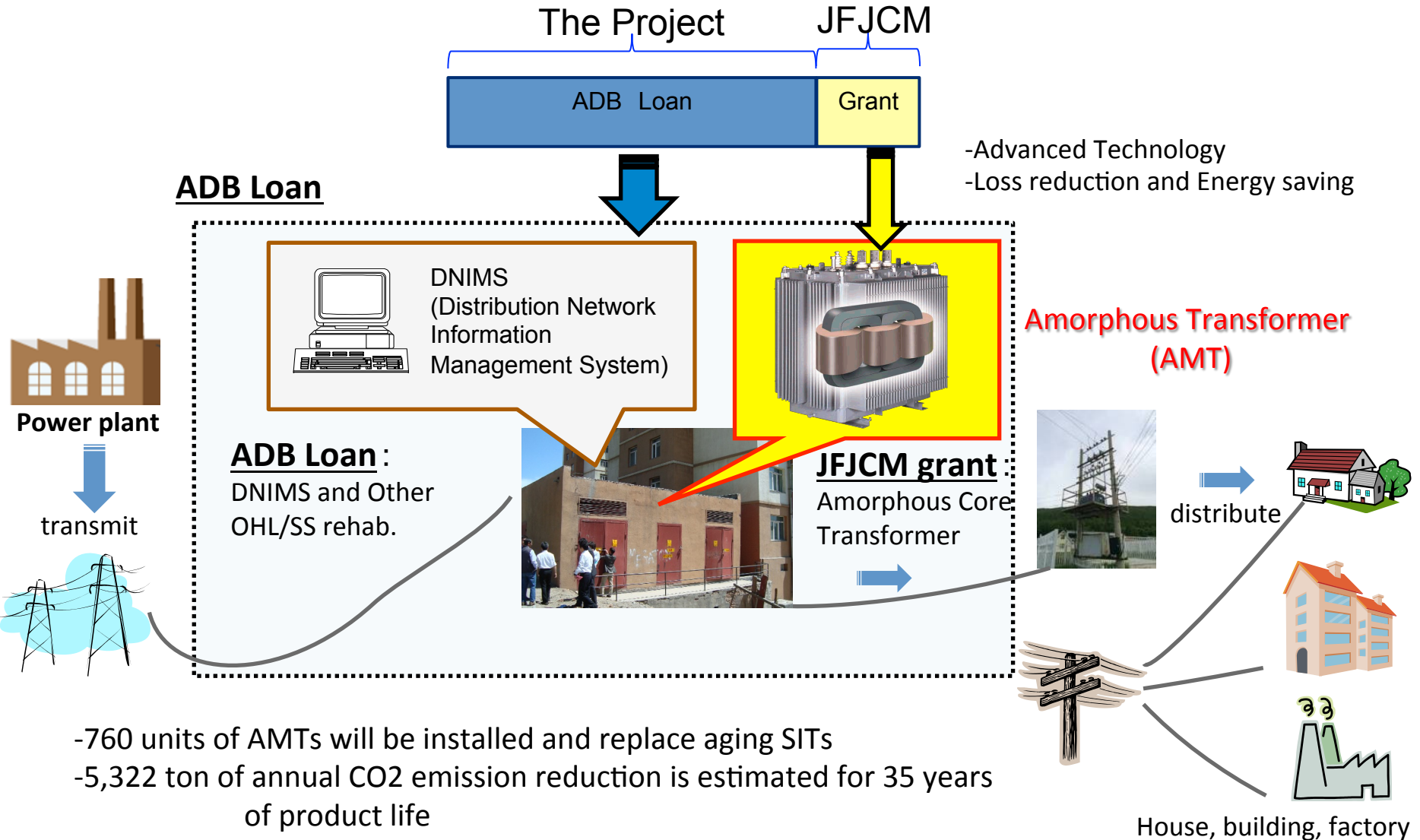
Methodology title	Approval date
Replacement and Installation of High Efficiency Heat Only Boiler (HOB) for Hot Water Supply Systems	28 Jan 2015
Installation of energy-saving transmission lines in the Mongolian Grid	20 Feb 2014

Combined Heat and Power (CHP) Plant and the Project

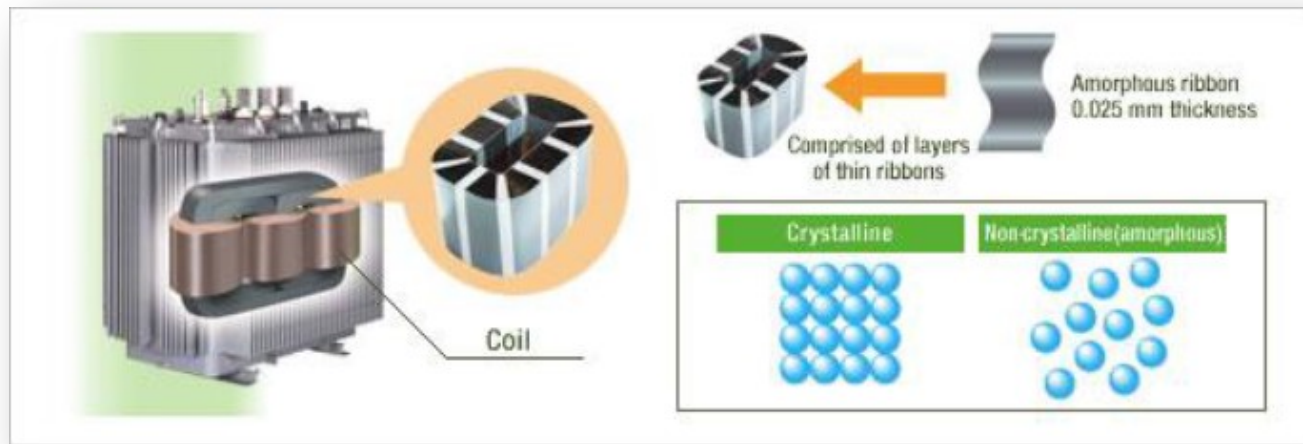
- 450 MW of new CHP plant in Ulaanbaatar for stable power and heat supply
- The distribution project (\$105 million) will fund new electricity transmission line (80 km), new heat transmission line (30 km), and distribution network rehabilitation and improvement.



Subcomponent Approved for JFJCM



Technology on JFJCM project

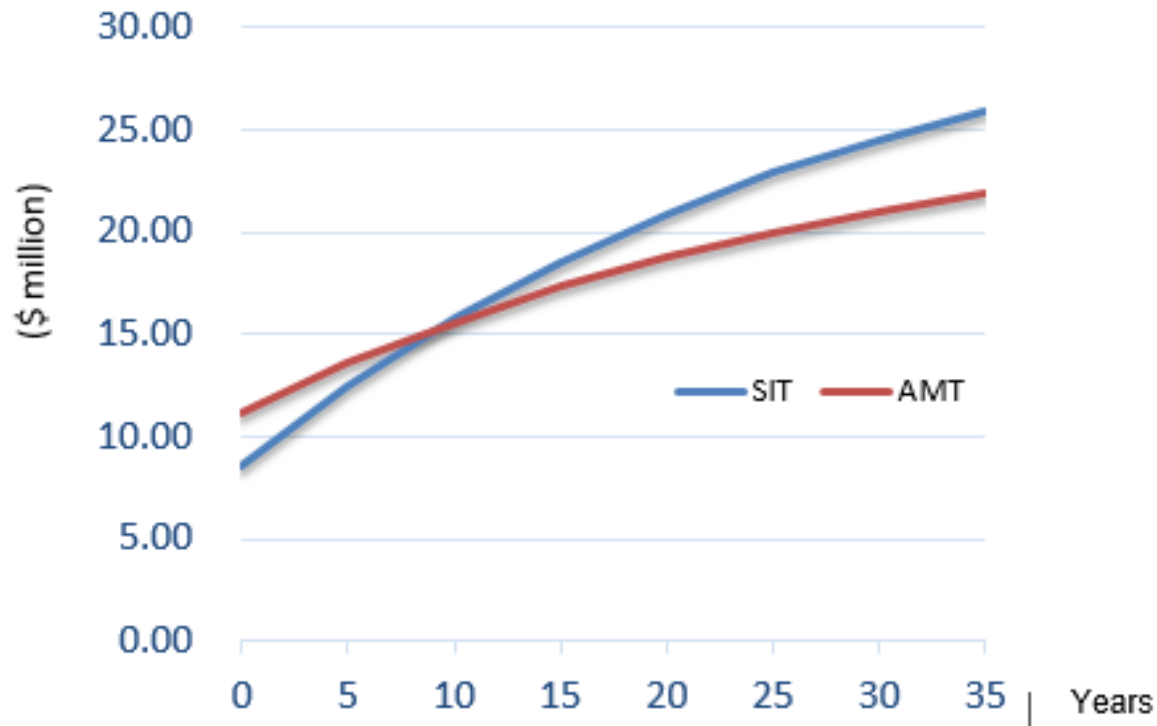


Amorphous Transformer (AMT)

- widely used in distribution network system in developed countries
- Applies “an amorphous core” which is an alloy of iron with boron, silicon, and phosphorus with a random and non-crystalline structure in the form of thin metal
- Improve inductance and resistance and reduces energy loss up to 75% in non-load loss and 21% in load loss

Amorphous Energy Efficient Transformer

- life cycle cost includes initial cost, operation and maintenance cost, and energy loss
- Around 38% of total cost savings throughout its entire life (35 years)



Life Cycle Cost Comparison between AMT and SIT

Thank you!