

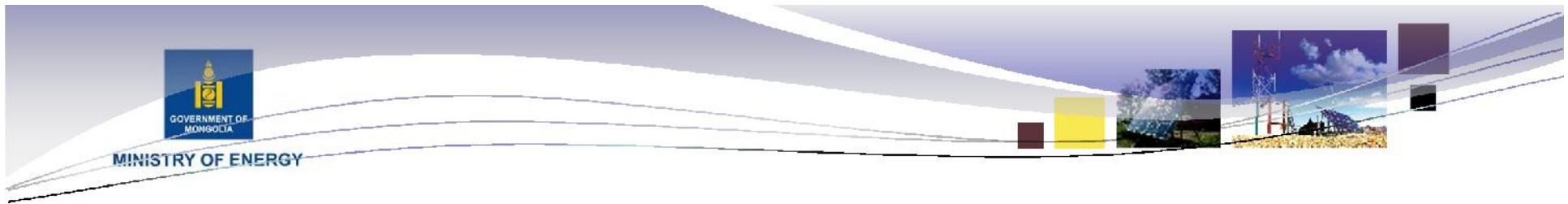


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DEVELOPMENT AND FUTURE PERSPECTIVE OF RENEWABLE ENERGY IN MONGOLIA

2014.04.08



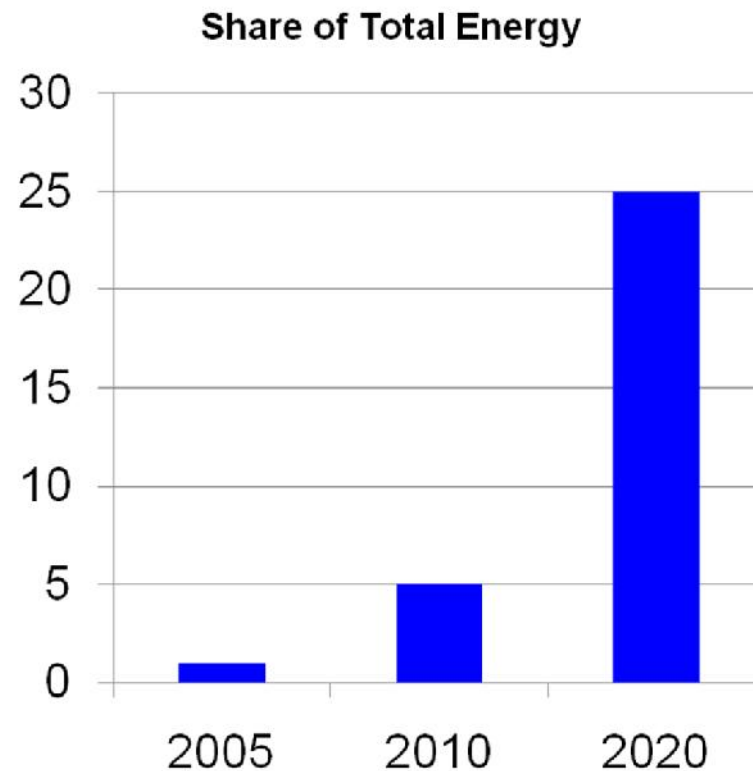
Mongolian Parliament approved NREP

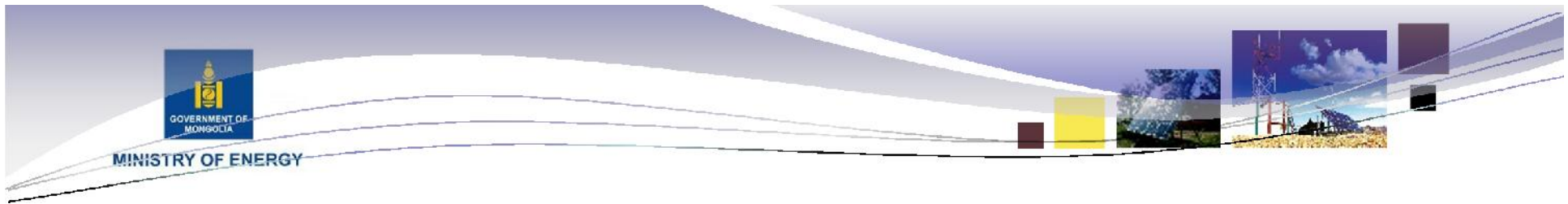
According to the “National Renewable energy program (2005-2020)”

the Government of Mongolia has set the target to increase the share of Renewable energy in total energy supply and reach:

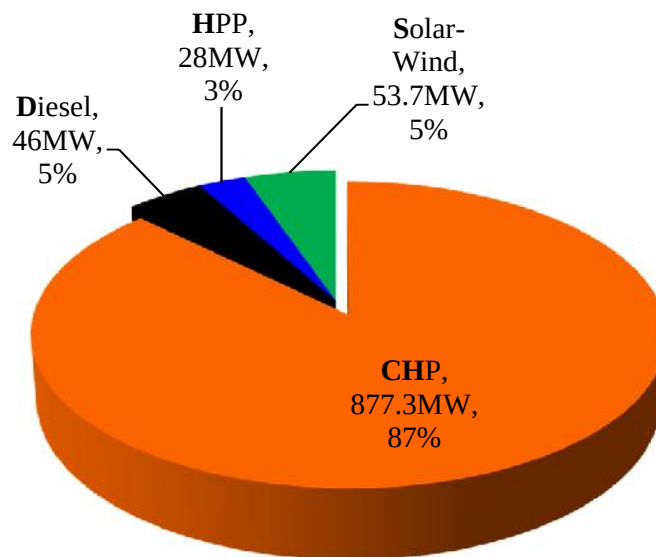
- 3-5% share by the year 2010
- 20-25% share by the year 2020

which implies that an increased use of renewable energy systems will be an important contribution





Installed capacity of renewable power (2013)



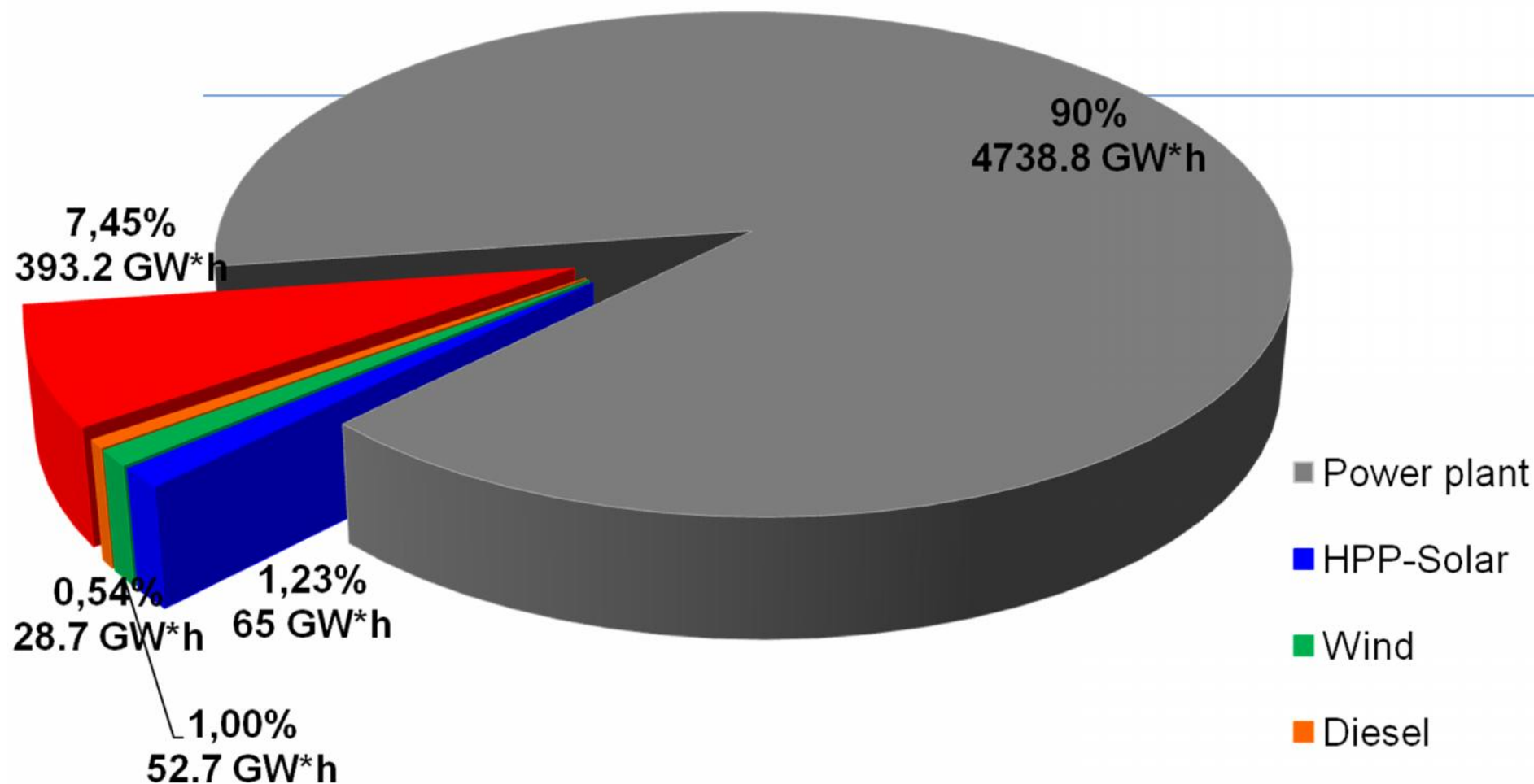
Power Plant	Capacity	Share
CHPs	877.3 MW	87 %
Renewable power	81.7 MW	8 %
Diesel stations	46 MW	5 %
Total	955 MW	100 %

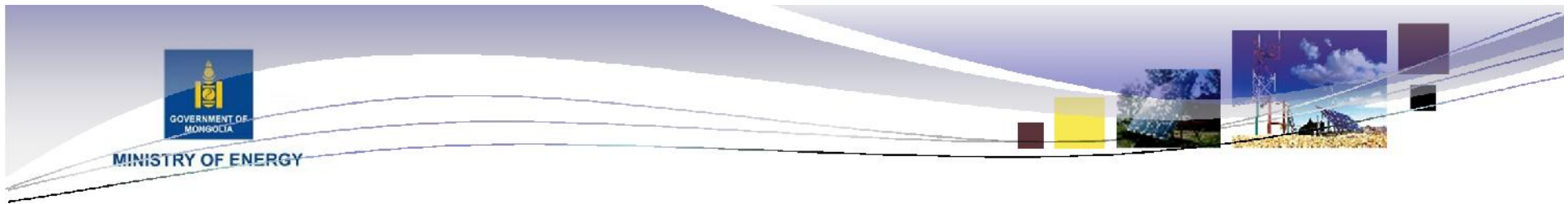


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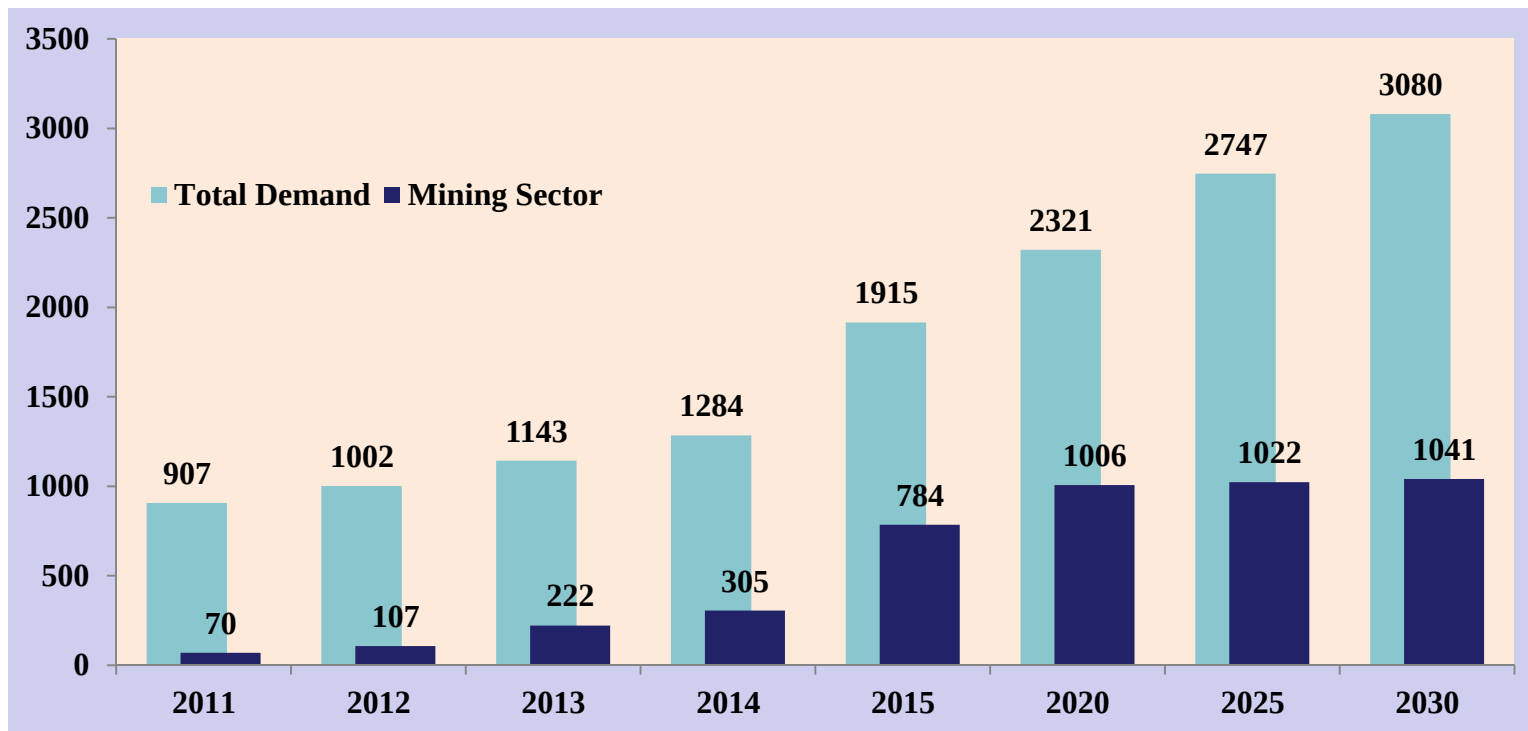
Renewable electricity generation (2013)

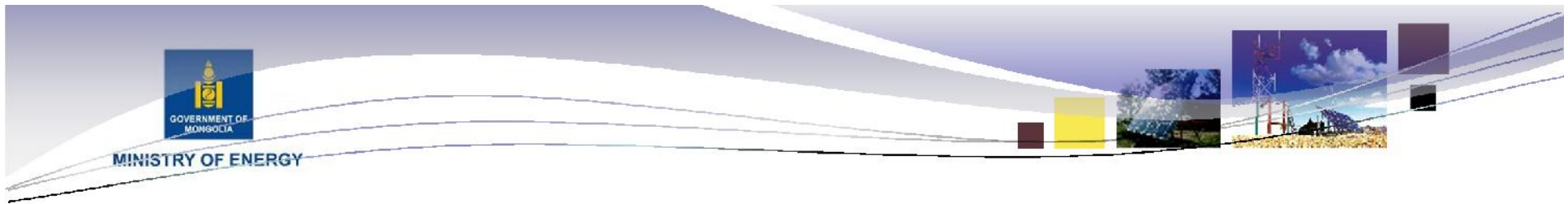




Energy demand (MW) – Source: EA 2012

Due to recent intensive activities in mining sector, in near future Mongolia should become a large producer and exporter of electricity





Policy support for renewable energy

■ **Parliament approved following strategic documents.**

- “National Renewable energy program” in June 2005 to promote and extend renewable energy development in Mongolia. Program shall be implemented in two stages /2005-2020/.
- “Renewable Energy Law” in January 2007 to regulate generation and supply of energy utilizing renewable energy sources.
- Millennium development goal, the strategy should be implemented 2008 -2021
- Government program /2012 – 2016/

■ **Government resolution no. 158 by October 6, 1999.**

- “100000 solar home” national program in 1999 to supply nomadic family by solar home system. The program had implemented during 2000 – 2010.



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•Source: [Energy Regulation Authority](#)

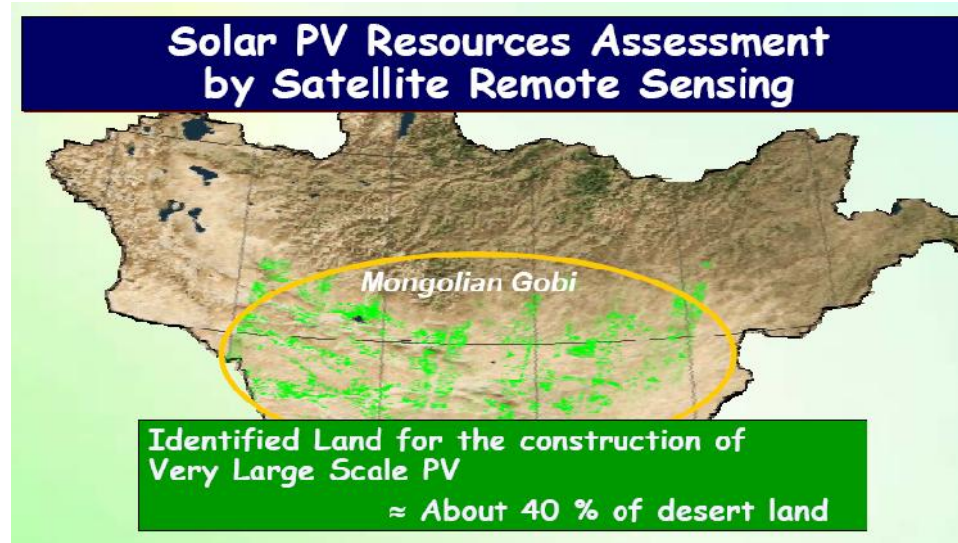
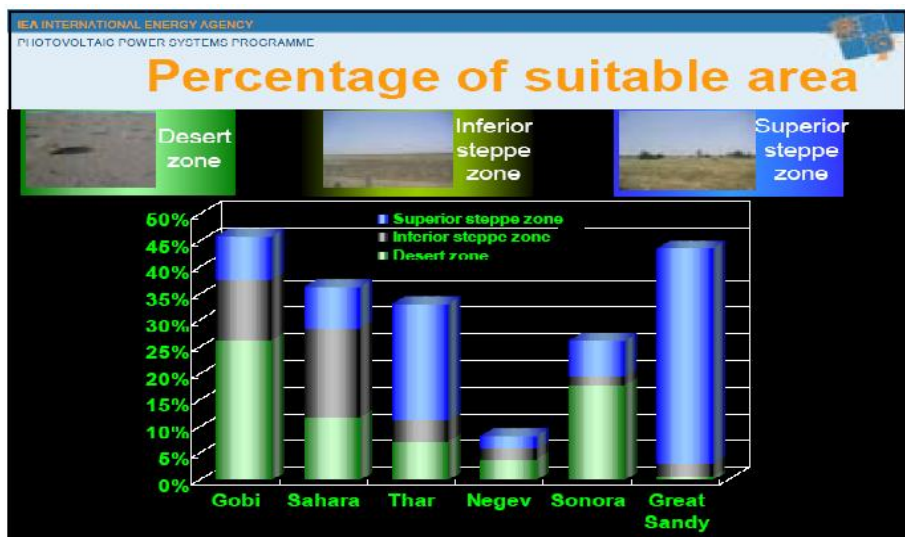
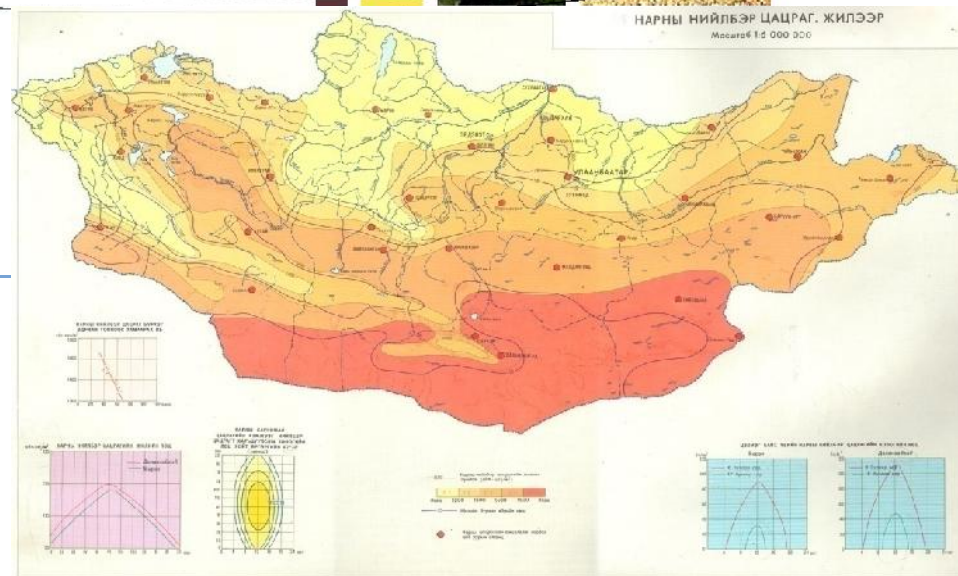
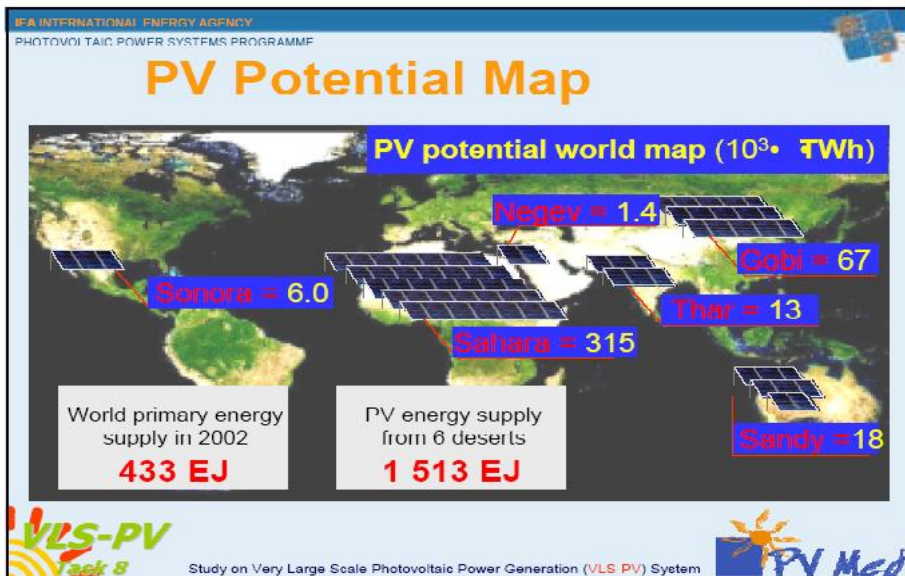


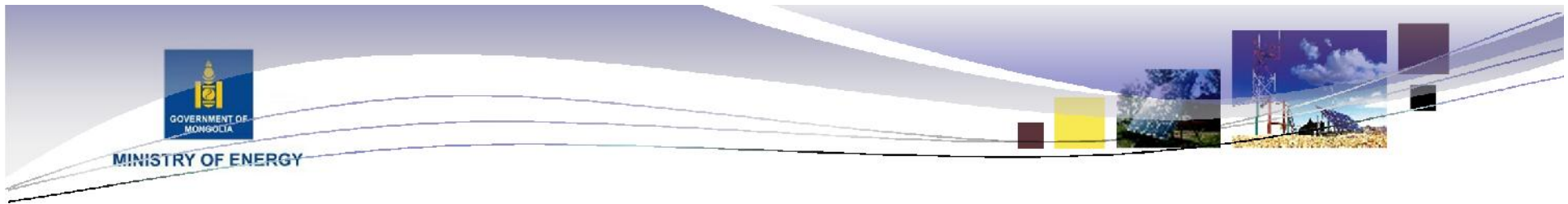
Renewable Energy tariffs and prices

	Types of energy	Capacity	Tariff /cent/
On Grid	Wind energy		8-9.5
	Hydro energy	till 5 MW	4.5-6
	Solar energy		15-18
Off Grid	Wind energy		10-15
	Hydro energy	till 0.5 MW	8-10
		0.5-2 MW	5-6
		2-5 MW	4.5-5
	Solar energy		20-30



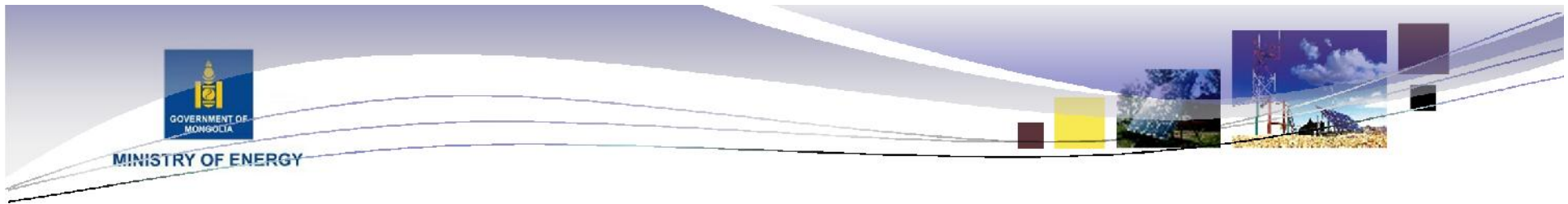
Solar power potential





Current status of Asian super grid in Mongolia

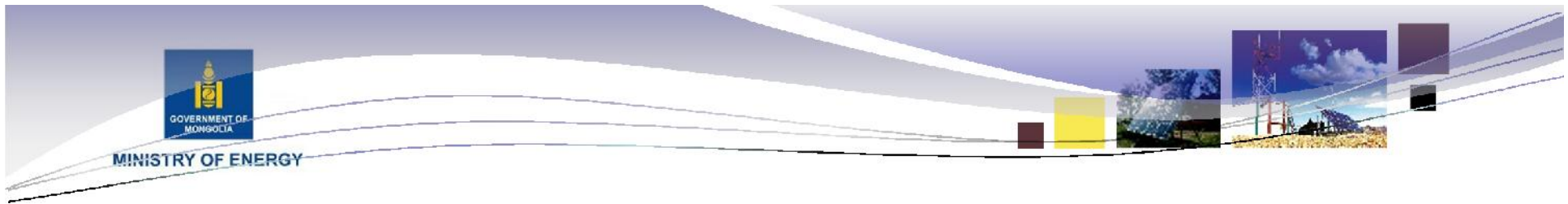
- “Renewable energy cooperation and Grid integration in Northeast Asia” international conference was organized by Ministry of Energy of Mongolia in Mongolia on November, 2012 and trade to enhance energy security in North-East Asia through energy cooperation in a sustainable manner.
- Memorandum of Understanding was signed between Ministry of Energy of Mongolia (MEM), Russian Energy Institute (REI), Korean Energy and Economic Institute (KEEI), Japanese Renewable energy fund (JREEF) and Energy CHART secretary. MOU aimed to conduct joint research and develop feasibility study on Asian super grid.
- “Asian super grid” research team was established under the Ministry of Energy of Mongolia in March, 2014.
- Requested fund for feasibility study of Asian super grid from Asian development bank (ADB).



To promote building a high-voltage, direct current (HVDC) electric power transmission system between Northeast Asian countries through Mongolia



•Asia Super Grid (ASG)



FUTURE PERSPECTIVES

- To build Mongolian energy interconnected network and cooperate with North-East Asian countries to build regional power interconnected system.
- To promote building a high-voltage, direct current (HVDC) electric power transmission line between Northeast Asian countries through Mongolia
- Establishment of Asia super grid In NEA region can significantly promote the development of abundant renewable energy and coal resources in Mongolia and help to export electricity to North East Asian countries through HVDC.



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Thank you for your
attention