

“Mongolian Wind Development Status”

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**NATIONAL RENEWABLE ENERGY
CENTER**

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Manila, Philippine

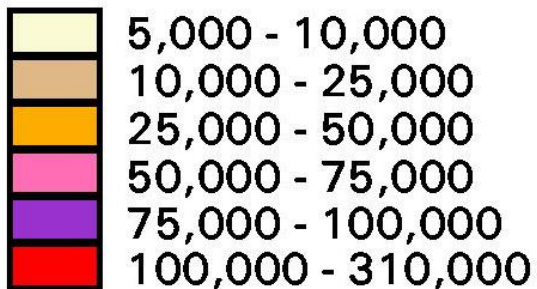
Wind power potential

Mongolia - Wind Electric Potential

Moderate-to-Excellent Wind Resource (Utility Scale Classification)



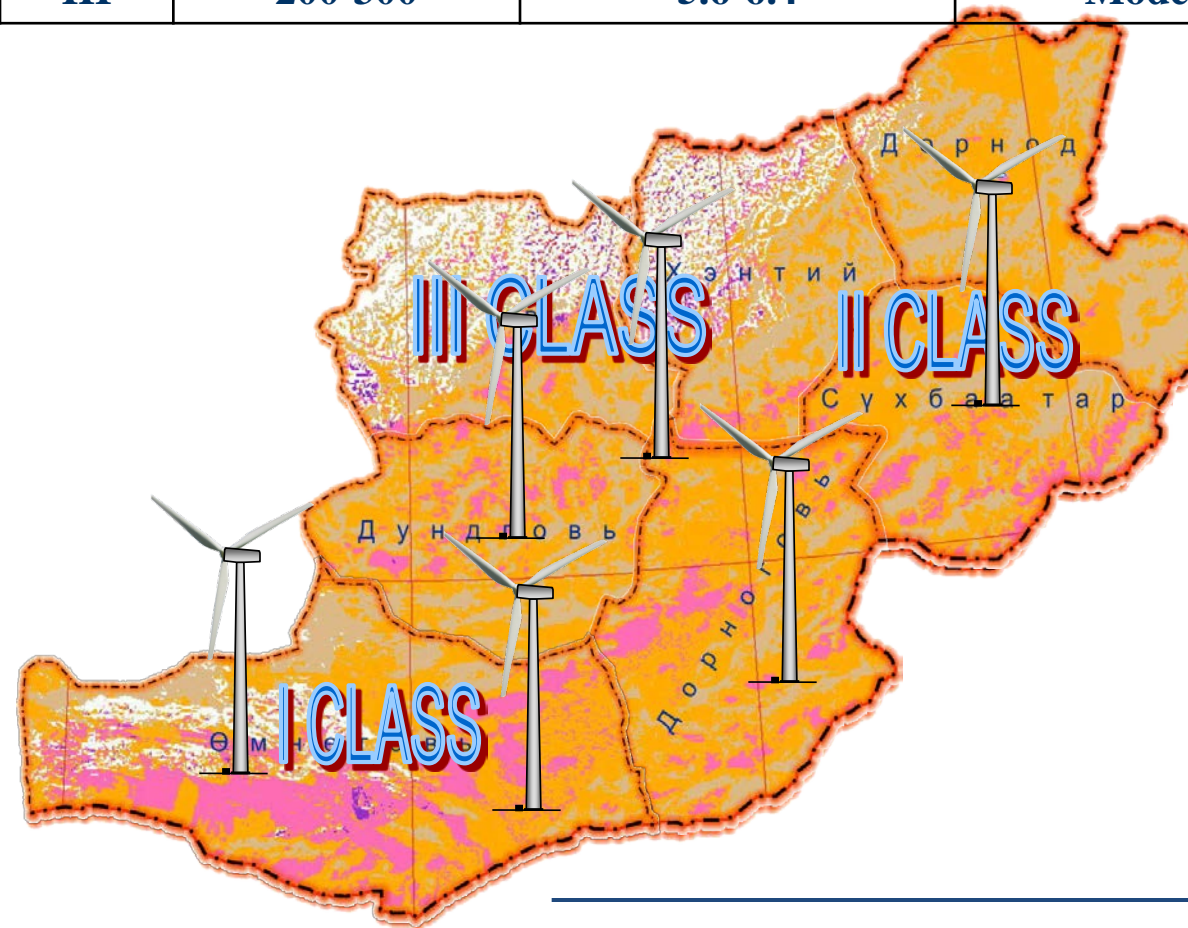
Wind Electric Potential Megawatts



Reference: Wind power energy atlas, NREL, 2001

POTENTIAL OF WIND POWER

#	Wind power density, W/m ²	Wind speed m/s at 30 m	class	Land square kilometer
I	400-600	7.1-8.1	excellent	165000
II	300-400	6.4-7.1	good	315900
III	200-300	5.6-6.4	Moderate good	235100



Development of Wind Farm

#	Wind Farms	Capacity, MW	Situation
III	Salkhit	50	Under construction
II	Choir	50,4	Under construction
II	Sainshand	50	R&D
I	Oyutolgoi	250	R&D
I	Khurmen	-	R&D
I	Tsogttsetsii	-	R&D

National Renewable Energy Program /2005-2020/

-Second stage for 2011-2020, to reach 20-25% share of renewable energy in the total energy production by 2020.

Total expected Energy production of the Energy System of Mongolia by 2020, 1700 MW.

Hydro power	Current	28 MW
	Plan	300 MW
Wind Power	Salkhit Wind park project	50 MW
	Choir wind park project	50.4 MW
Solar Power on	Used by herdsman and other	7 MW
	On grid RE power	8 MW
	Total	442 MW

-Percentage share of renewable energy possible to reach at 24-26%, 2020.

Renewable Energy tariffs and prices

RENEWABLE ENERGY LAW OF MONGOLIA

(approved by the Parliament on 11 January, 2007)

- **Feed-in tariffs for RE power sources**
- **Renewable Energy fund**

	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

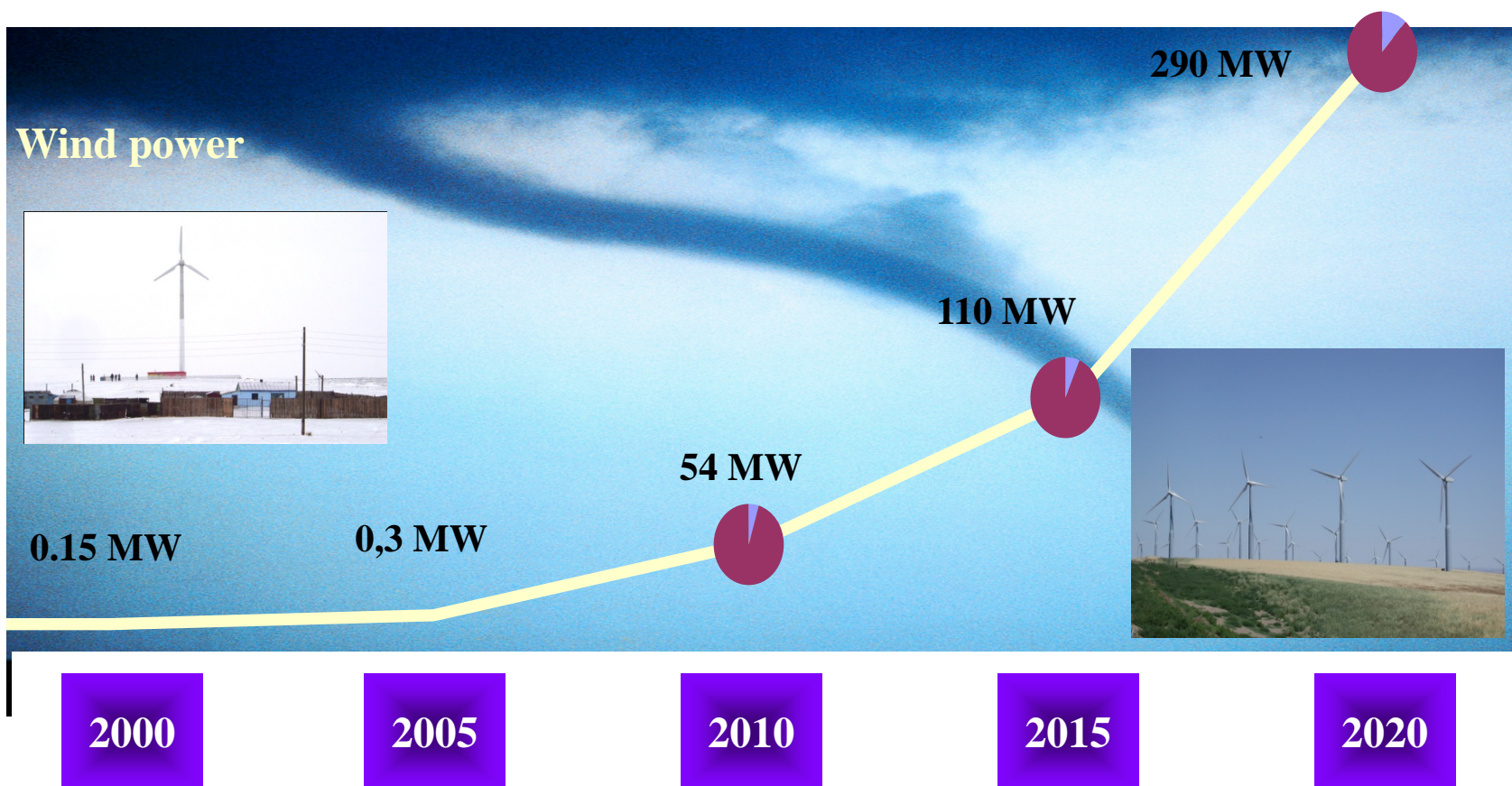
Article 12. Duration of application of prices and tariffs

12.1. Prices and tariffs of renewable energy shall be stable for a period of minimum 10 (ten) years starting with the date of entry into force of this law.

Goal of Wind power energy

■ – Total energy capacity

■ – Wind power capacity



What can be done to accelerate wind development in Mongolia?

- To accelerate the establishment of the large scale hydro power plant in Mongolia in order to provide sustainable electricity supply.
- To update and re-estimate country wind potential and make regional wind measurement and data collection
- To improve capacity building for wind-energy personals
- To upgrade the laws and regulations concerned with wind energy



Thank you for your attention