



Wind energy assessment case study, Mongolia

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Content

- Objective
- Wind observation sites
- Met-masts
- Observation results
- Data access
- Next steppes



Introduction



Ministry of Energy of Mongolia



ADB Quantum leap in wind energy



National renewable energy center





Objective

Build favorable environment for potential investors in wind energy sector.

In order to reach national targets for renewable (wind) energy development:

20% of RE by 2020 30% of RE by 2030

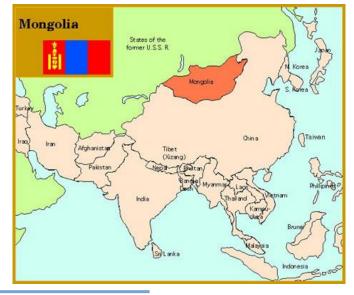
10% of wind by 2020 15% of wind by 2030.

Build base for possible ASG Gobitech initiative.

Detailed wind observation sites

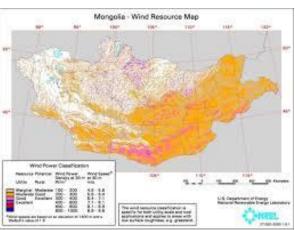


Site	Latitude	Longitude	Elevation
Ulaan-uul Erdene soum, Dornogobi aimag	44º28'29.8"	111º07'54.5"	1032 м
Tsaidam undur nuur, Darganga soum, Sukhbaatar aimag	45º36'20.2"	114º34'15.3"	1320 м



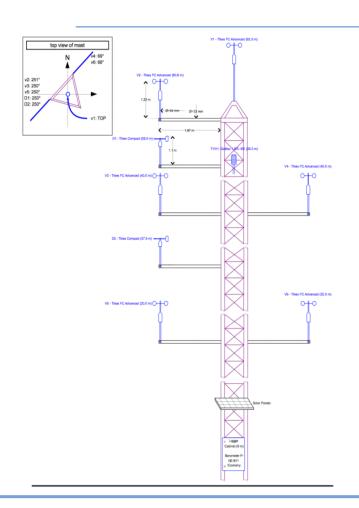
Wind observation sites











Sensors	Barings, ⁰	Elevation, agl. m	Calibration
Anemometer 1	-	62.3	certified
Anemometer 2	251	60.8	certified
Anemometer 3	250	40.0	certified
Anemometer 4	69	40.0	certified
Anemometer 5	250	20.0	certified
Anemometer 6	68	20.0	certified
Wind wane 1	250	55.0	certified
Wind wane 2	250	37.5	certified
Thermometer	-	55.0	certified
Humidity meter	-	55.0	certified
Baromemter	-	9.0	certified
Pyranometer	180	11.0	certified

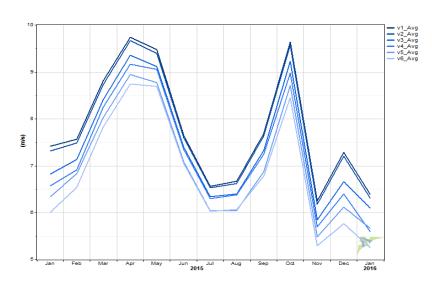


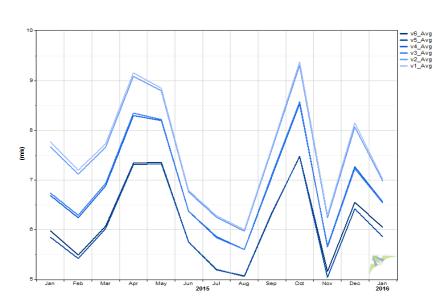




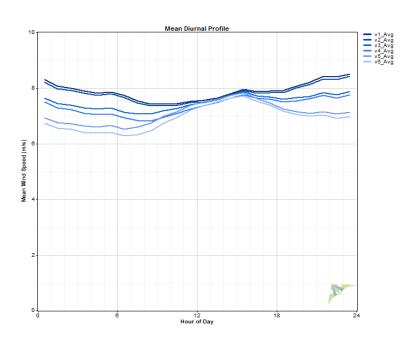


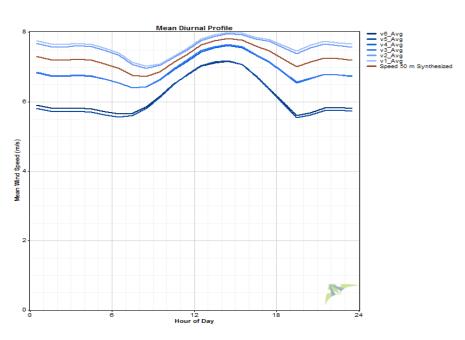






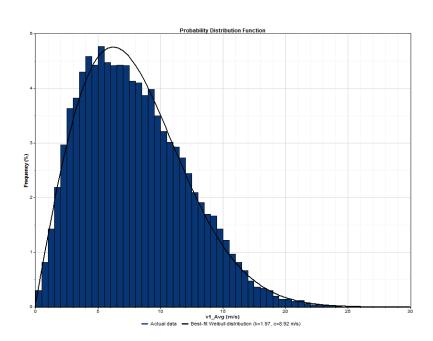


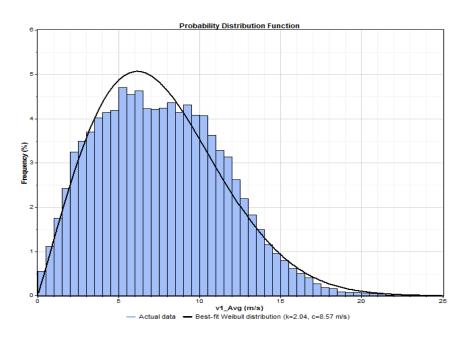




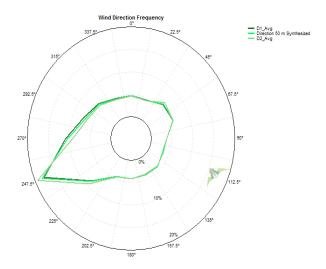


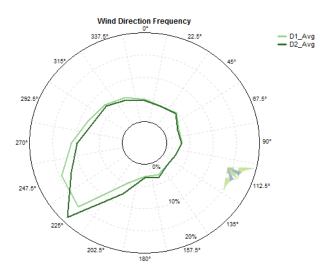
Observed data



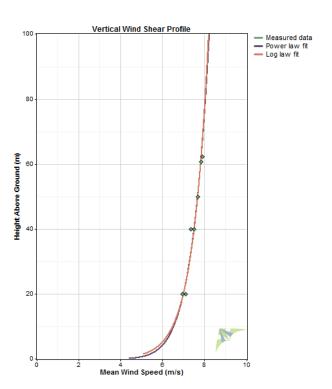


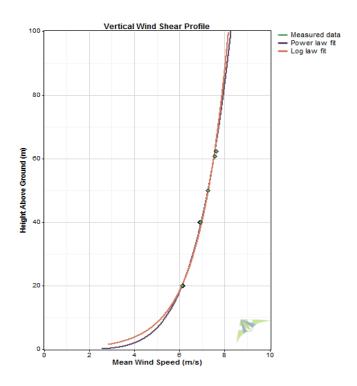




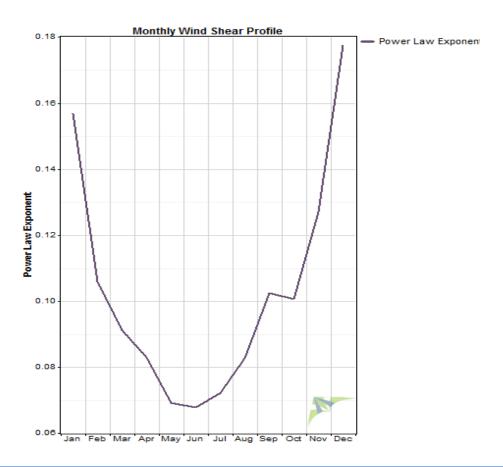














Data access

All raw data collected, processed and owned by National renewable energy center of Mongolia under the guidance of Ministry of Energy of Mongolia

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Next steppes

- Update wind resource map
- Install potable stations on potential wind farm development site
- Prepare pre-feasibility study on possible wind farm development in near by region
- Start feasibility study of large scale wind power development in the region



Thank you for your attention!