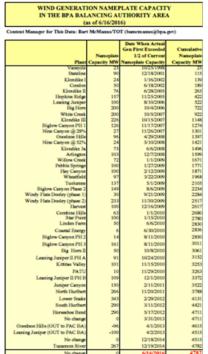
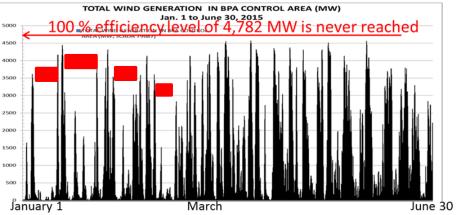
WIND TURBINES ILL-SUITED TO PRODUCE ELECTRICITY

Electricity Horror – Washington's Experience

List of 46 wind farms (4,782 MW



https://transmission.bpa.gov/business/o perations/wind/ Chart of electricity output from 46 wind turbine farms in WA-OR with capacity of 4,782 MW (Bonneville Power Admin.)

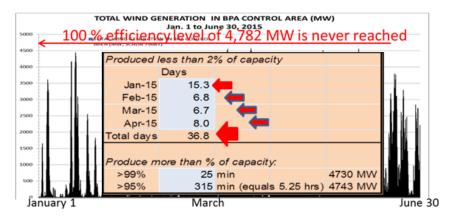


How Washington's wind turbines perform:

- Wind generation in WA-OR has a capacity 37% larger (4,782 MW) than the four Snake River dams (3,489 MW) yet produced 1,243 MW, or 64% less than Snake River dams.
- Conclude: wind turbines cannot produce full-time power;
- Power generated by 46 wind farms is intermittent, unpredictable
- It requires full time fill-in or back-up power for customers to obtain a full-time supply.

RED BARS (above) ARE LONG PERIODS (1 to 2 weeks) WHEN NO ELECTRICITY WAS PRODUCED IN 2015

DAYS WITHOUT ELECTRICAL POWER:



WIND PRODUCTION STATISTICS FOR 44 PLANTS IN BPA CONTROL AREA OF WA-OR:

- For 57 days, the 44 wind farms generated less than 100 MW (<2% of capacity during 9/28/2013 to 1/29/2014)
- During one windless 25-day period (Jan. 5 Jan 29 2014) almost no wind power was generated
- For the 33-month period or 992 days from Jan 1 2013 to Sep. 20, 2015:
 - \circ ~ 11.7% of the time (115 of 992 days) produced 0.5% of capacity
 - o 23.4% of the time (232 of 992 days) produced 2.1% of capacity
 - \circ ~ 56.2% of the time (557 of 992 days) produced 10.5% of capacity