

Utah - 50 m Wind Power

114°

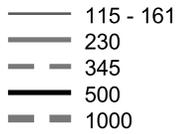
112°

110°

42°

Transmission Line*

Voltage (kV)



* Source: POWERmap, ©2002 Platts, a Division of the McGraw-Hill Companies

The annual wind power estimates for this map were produced by TrueWind Solutions using their Mesomap system and historical weather data. It has been validated with available surface data by NREL and wind energy meteorological consultants.

Indian Reservation

- 1 Northwestern Shoshoni
- 2 Uintah and Ouray
- 3 Skull Valley
- 4 Goshute
- 5 Paiute of Utah
- 6 Ute Mountain
- 7 Navajo

38°

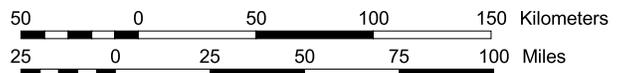
40°

38°

Wind Power Classification

| Wind Power Class | Resource Potential | Wind Power Density at 50 m W/m ² | Wind Speed ^a at 50 m m/s | Wind Speed ^a at 50 m mph |
|------------------|--------------------|---|-------------------------------------|-------------------------------------|
| 1 | Poor | 0 - 200 | 0.0 - 5.6 | 0.0 - 12.5 |
| 2 | Marginal | 200 - 300 | 5.6 - 6.4 | 12.5 - 14.3 |
| 3 | Fair | 300 - 400 | 6.4 - 7.1 | 14.3 - 15.9 |
| 4 | Good | 400 - 500 | 7.1 - 7.6 | 15.9 - 17.0 |
| 5 | Excellent | 500 - 600 | 7.6 - 8.1 | 17.0 - 18.1 |
| 6 | Outstanding | 600 - 800 | 8.1 - 8.9 | 18.1 - 19.9 |
| 7 | Superb | > 800 | > 8.9 | > 19.9 |

^a Wind speeds are based on a Weibull k of 1.8 at 1500 m elevation.



U.S. Department of Energy
National Renewable Energy Laboratory