



Why windfarms consume power

All turbines use grid power to do some or all of the following:

- Warm (or cool) lubricating oil.
- Charge internal batteries.
- Run Air Conditioning plant for electronics.
- Heat blades to prevent icing.
- Run the 'Yaw motors' to turn head into wind.
- Operate blade control.
- Energize the generator.
- Rotate blades to prevent damage to main bearings.
- Synchronize with the grid.
- Live-production is negative if the turbine is not producing enough power to meet these requirements.