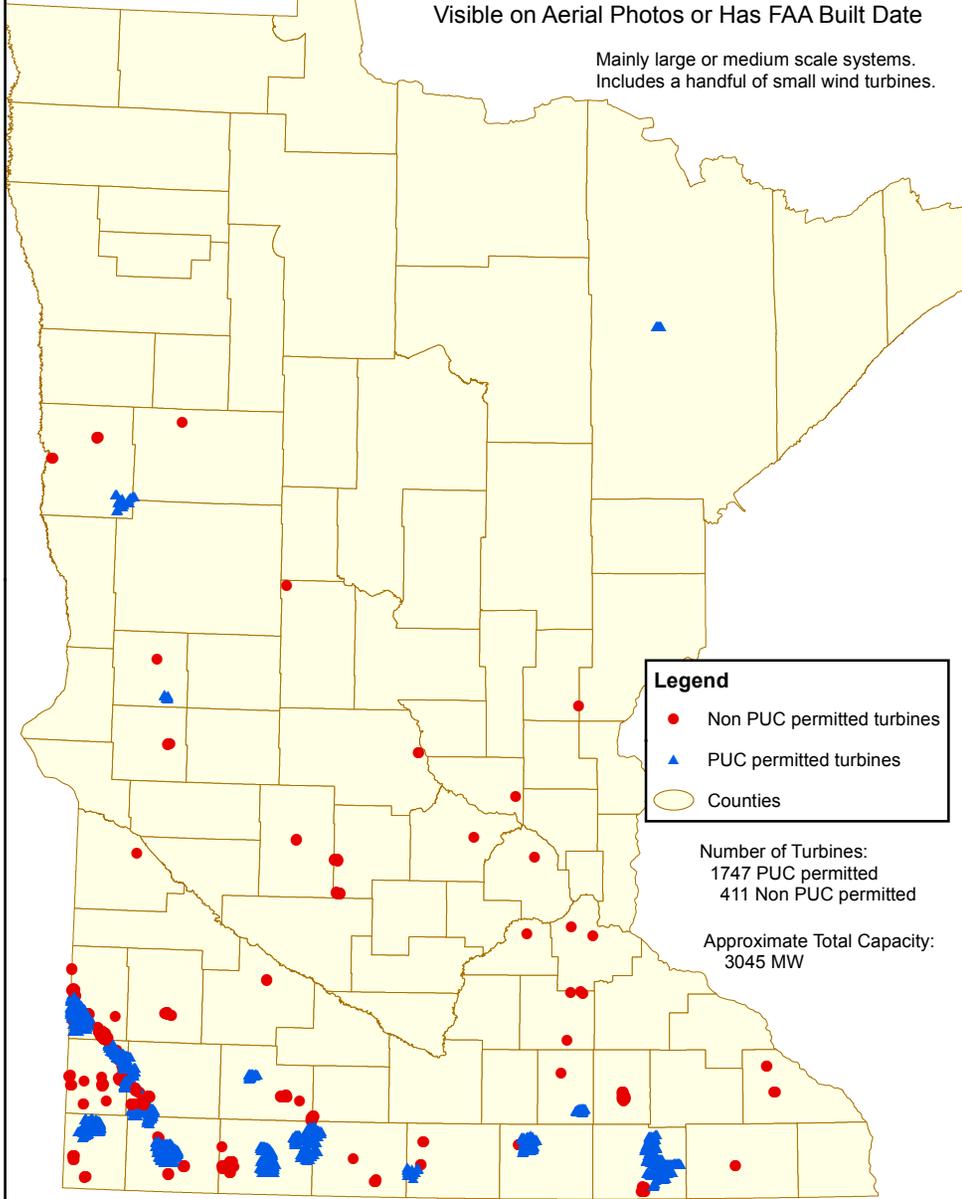


Wind Turbines in Minnesota as of January 13, 2014

Existing Known Turbines

Visible on Aerial Photos or Has FAA Built Date

Mainly large or medium scale systems.
Includes a handful of small wind turbines.



- Legend**
- Non PUC permitted turbines
 - ▲ PUC permitted turbines
 - Counties

Number of Turbines:
1747 PUC permitted
411 Non PUC permitted

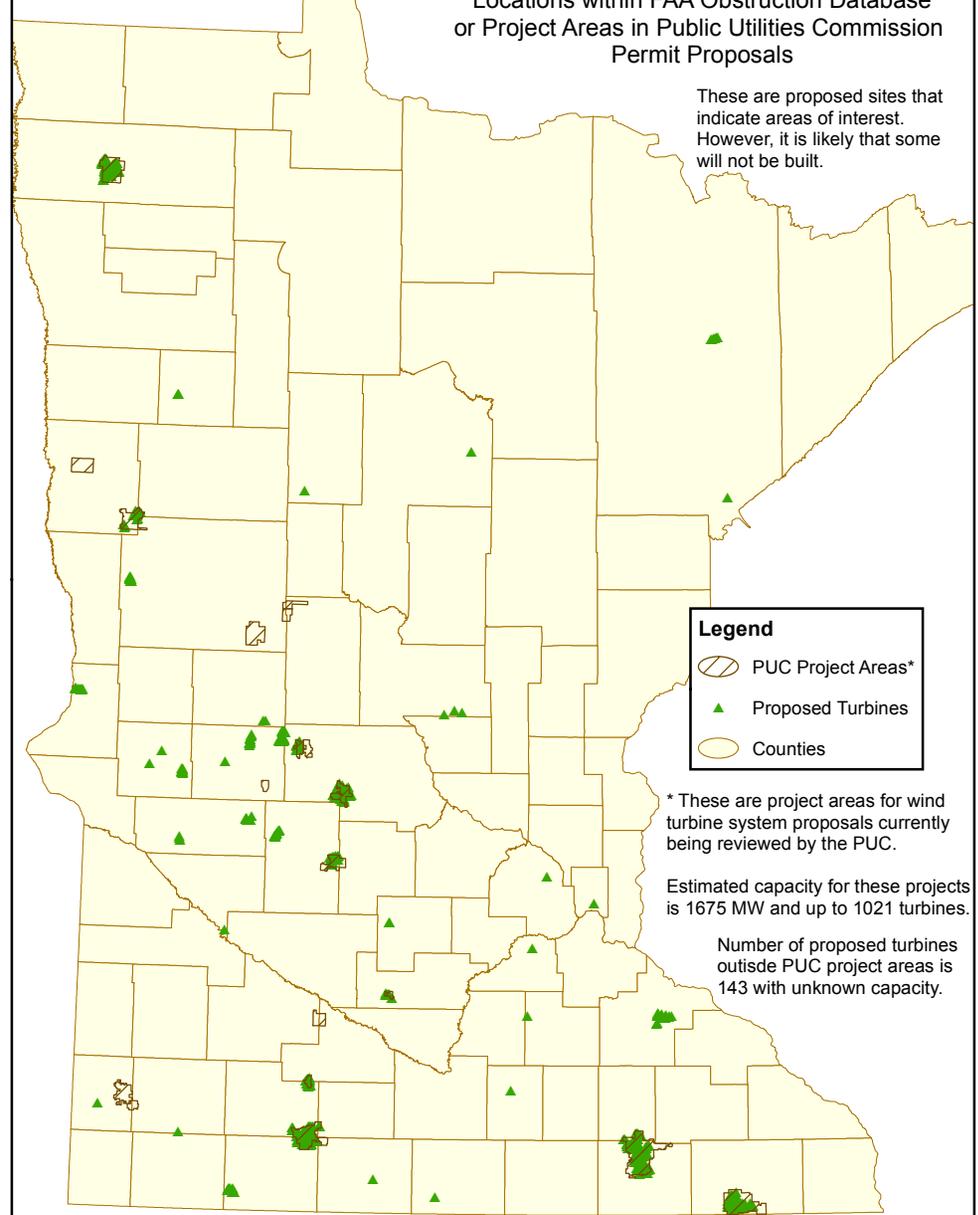
Approximate Total Capacity:
3045 MW

PUC = Public Utilities Commission
NonPUC = Assume local (county/city)

Proposed Turbines

Locations within FAA Obstruction Database
or Project Areas in Public Utilities Commission
Permit Proposals

These are proposed sites that
indicate areas of interest.
However, it is likely that some
will not be built.



- Legend**
- ▨ PUC Project Areas*
 - ▲ Proposed Turbines
 - Counties

* These are project areas for wind turbine system proposals currently being reviewed by the PUC.

Estimated capacity for these projects is 1675 MW and up to 1021 turbines.

Number of proposed turbines outside PUC project areas is 143 with unknown capacity.

The FAA Obstruction database is used to check if structures will interfere with air traffic. Some wind developers appear to check potential sites early in the process and the FAA permit does not indicate whether funding or an actual proposal exists.