





What is NYSERDA?

- Public Benefit Corporation.
 - Energy, Environment, Economy
 - Market Driven
 - Risk Reduction Investments
- Research & Development, Energy Analysis, Energy Efficiency Services, Deployment.
- Steward of New York State's SBC and RPS Programs.

Why do we need a guide?

- NYSERDA is providing incentives to increase small wind markets in NY.
- Each town is responsible for permitting.
- Most towns have no experience permitting small wind turbines.
- Controversy surrounding the recent boom in large wind plant development could negatively affect permitting of small wind turbines.



NYSERDA End-Use Wind Program

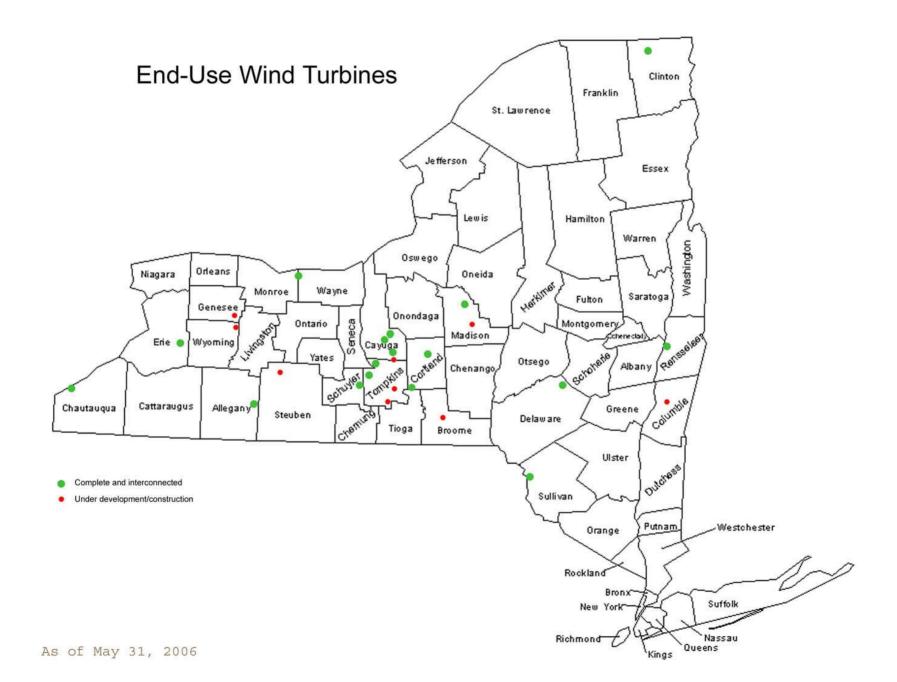


- Started in late 2000.
- Goal: sustainable market development for wind energy in municipal, agricultural and commercial sectors.
- 50 70% incentives for turbines 10 kW and under; less for larger turbines.

Status of Wind Development in NY



- 16 turbines installed so far (most are 10kW machines).
- 8 more projects under development.
- 18 eligible wind installers; 7 have been active.



What is covered in the guide?



- Small wind vs. large wind.
- Siting small wind systems.
- Permitting small wind systems.
- Model siting ordinances.
- Case studies.

Large Wind vs. End-Use Wind

- Large Wind Turbines.
 - over 600kW; towers usually over 200 ft
 - electricity sold to utility
 - sited in groups; installed by a developer





- End-Use Wind Turbines.
 - usually under 100kW; Towers usually 140 ft or less
 - designed to off-set customer's purchases of utility electricity



Siting small wind systems

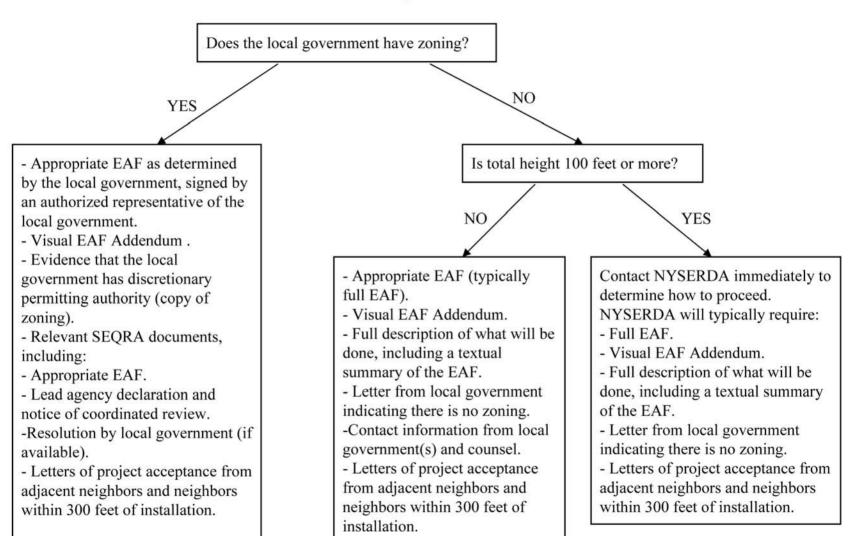
- What sites are appropriate?
 - good wind resource
 - free of obstructions
- Small wind turbine economics.
 - on-grid vs. off-grid
 - economic impacts of siting restrictions
 - impacts of sales and property taxes

Permitting small wind systems

- Role of local government.
 - zoning or no zoning
 - wind-specific zoning
- SEQRA.
 - required if you get NYSERDA funding (more later)
- Impact on wildlife.
- Impact on a community.
 - sound
 - visual
 - property value
 - safety
- Other requirements.
 - insurance
 - wet stamps
 - airports



PON 792 SEQRA PROCESS Installer Responsibilities



Zoning Recommendations

- Permitted or accessory use.
- Permitting fees.
- Height restrictions.
- Safety.
- Electrical.
- Neighbors.
- Lighting.
- Sound.
- Model ordinance.



Case studies

- Calicoon Center, NY
 - 35 foot height restriction
- Ossian, NY
 - no permitting needed
- Lansing, NY
 - height reduced; color changed
- Locke, NY
 - informing neighbors is helpful
- Lebanon, NY
 - permit issues on house; none on turbine
- Ellenburg, NY
 - property tax issues

