



# FOUR WINDS RENEWABLE ENERGY, LLC

8902 County Route 46, Arkport, NY 14807  
607-324-9747

www.four-winds-energy.com  
Wind Site Assessor Training

Roy Butler  
Installer# R041704-5



---

## SMALL WIND INSTALLER WORKSHOP AGENDA

### Day 1

- Conservation
- Small wind overview
- Basics of wind energy
- Wind technology/ furling animation/ Proven 15 animation
- Slideshow: turbine sizes
- Slideshow: not ready for prime time/ deceptive advertising
- Reliability issues

### Day 2

- Review
- Siting/ Peck PA case study
- Tough sites, logistics and hidden costs
- Tower design considerations
- Wind site assessment:
  - Quantity and quality
  - Wind speed calculators (AWS, First Look, etc) discussion
- Energy production calculators (what works and what doesn't)
- Economic calculators discussion
- Small wind zoning and policy
- Update on NABCEP small wind installer certification
- Update on the Small Wind Certification Council (SWCC)
- Show and tell: tools of the trade

### Day 3

- Review
- Hands on lab work (alternators, turbine assembly, KidWind demos)
- Computer lab
  - Siting using Google Earth
  - Estimating wind speed (AWS/ NASA/ maps)
  - Energy production estimation (7th Wind/ BWC/ Jacobs/etc)
  - Economic calculators
  - Report generation
- Wind installation safety discussion

### Day 4

- Hands on work with a small turbine on a 42' tilt tower

### Day 5

- Turbine and tower installations- slideshows and discussion
  - Tilt up with winch, guyed lattice w/ crane, guyed lattice by gin pole, guyed lattice tilt up with winch, SSV w/ crane, monopole with crane
- Inspection and maintenance considerations
- Turbine rebuilding
- Videos
- Quiz and wrap up