

# Community Wind

Opportunities in the 100kW to 1MW range

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# What is Community Wind?

- Locally owned wind projects – triple bottom line approach
- Wind energy benefits
- On-Site Generation or Wholesale Power Sale
- Turbines 100kW to 1000kW (1 MW)

# A Turbine is a Turbine ...

- Horizontal Axis versus Vertical Access
- Ground Mounted versus Roof Mounted
- New versus Refurbished
- Monopole versus guy-wired tower versus lattice tower

# Steps to a Project

- Prefeasibility Discussion
- Feasibility Study
  
- Engineering Design
- Construction
- Installation and Commissioning
  
- Operations and Maintenance
- Decommissioning

# Interconnection & Net Metering

- Utility Interconnection Agreement
- Net Metering
  - No Agreement
  - Prenegotiated Statewide Agreement
  - Custom Agreement
  - Virtual Net Metering, Shared Net Metering, Neighborhood Net Metering

# Is My Facility a Good Fit?

- Project Backstory
  - Investment, Capital Improvement, Sustainability Goals, PR/Publicity
- Siting Concerns
  - lay down area, future development, shadow flicker, NIMBY
- Power Needs, Wind Resource
- Permitting
  - height or land use restrictions, SUP, environmental, FAA

# 3 Biggest Hurdles

- Permitting / NIMBY
- Up Front Cost
- Siting

# Examples

Turbine Size	Annual Production	Turbine Height	Area Required	Project Length	Turn-key Cost
100 kW	260,000 kWh	120' / 155'	1.75 acres	6 months	\$575,000
1000 kW	2,200,000 kWh	230' / 325'	6.50 acres	9 months	\$2,200,000

# Resources Available

- Financial Incentives and Public Policy
  - Database of State Incentives for Renewable & Efficiency (DSIRE) [www.dsireusa.org](http://www.dsireusa.org)
  - Kansas Grants Clearinghouse [www.KansasGrants.org](http://www.KansasGrants.org)
  - Kansas Corporation Commission [www.kcc.state.ks.us](http://www.kcc.state.ks.us)
- American Wind Energy Association (AWEA) [www.awea.org](http://www.awea.org)
- Windustry [www.windustry.org](http://www.windustry.org)
- Climate + Energy Project (CEP) [www.climateandenergy.org](http://www.climateandenergy.org)

# Questions?

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