



# Wind Energy Development

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## Community Responsibilities and Potential Benefits

# System Development

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## Strategies to Control Energy Costs

Diversified Energy Portfolio – A teamwork approach utilizing several different fuel sources.

Movement from a centralized to a decentralized electric generation, transmission and distribution system.



# Planning and Involvement

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## Discussion and Outreach

Coordinated efforts involving the developer, government and regulatory agencies at the township, county, state and in some cases, federal level, economic development and regional development authorities community groups.



# Planning and Involvement

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## Utility Scale Projects (+5 mwh)

Wind project development is governed by Ohio Power Siting Board (OPSB) under provisions found in HB 562 - 2008 and OPSB Docket 08-1024-EL-ORD.



# Planning and Involvement

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## Utility Scale Projects (+5 mwh)

Evaluation includes extensive environmental, economic and aesthetic considerations .

Local government and community input required.



# Planning and Involvement

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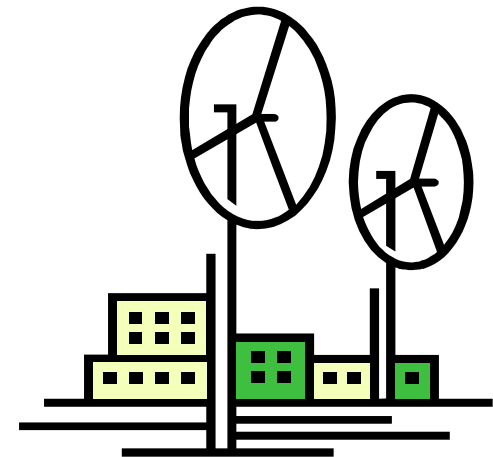
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## On-Site Projects (-5 mwh)

Wind project development is governed by either county, township or municipal zoning authority.

Local governments throughout Ohio are working on creating ordinances to address their specific community needs.

Points to consider...



# Planning and Involvement

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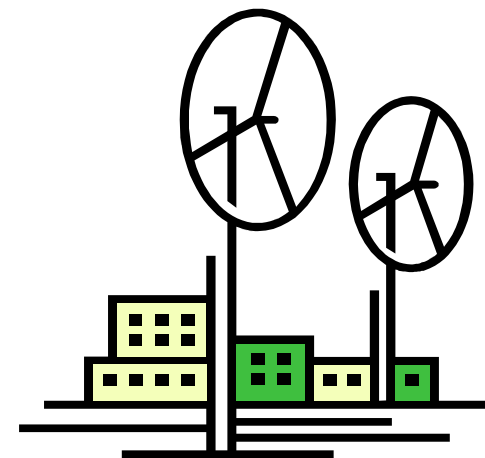
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## On-Site Projects (-5 mwh)

Maximum Turbine Height – Length of prop at maximum vertical rotation to tower base.

Setbacks – Establish a “clear fall zone” around turbine equal to  $\times 1.5$  turbine height away from public roadways, property lines, buildings..

Environmental – Noise, shadow flicker issues addressed.



# Planning and Involvement

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## On-Site Projects (-5 mwh)

Engineering – Wiring installed underground, meets all local, state and federal building codes.

Associated Permits – Obtain all local and state building permits.

Maintenance – Turbines good working order and removal provisions established.



# Planning and Involvement

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## On-Site Projects (-5 mwh)

Filed Report with Zoning Inspector: Unit manufacturer, model, generating capacity, safety and interconnection measures.

Maintenance schedule and decommissioning plan.

Site drawing detailing turbine location and x1.5 setbacks.



# Planning and Involvement

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## On-Site Projects (-5 mwh)

Many (if not all) report requirements can be easily supplied by the project developer/installer and turbine manufacturer.

Agricultural use exemptions apply...



# Planning and Involvement

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## Action

Creation and development of utility scale and on-site projects that address environmental concerns considers aesthetic needs and provides economic benefits.





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## Community Responsibilities & Potential Benefits



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