Appalachian Ohio Energy Economic Development Summit

Ohio Energy Office
Financial Programs

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Ohio Energy Office
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Commercial Programs
Technical Assistance & Training

- Ohio Small Business Energy Saver  www.business.ohio.gov/
- Building Operator Certification  www.boccentral.org/
- EnVinta Assessments (Manufacturing)
  - Achiever
  - EnVinta One-2-Five
- Ohio Materials Exchange  www.aor-omex.org/
- Alternative Fuels and AF Vehicles
- Wind and Solar Power
- Waste to Energy
Other OEE Programs

- Residential
  - Building Science
  - Low Income Weatherization
- Outreach
- Commercial & Industrial
  - Agriculture
  - Transportation
Vision: OEO envisions a robust economy supported by multiple energy sources, energy efficiency and advanced energy technology that add value to the quality of life for all Ohioans.

- Energy efficient technologies
- Best practices
- Advanced, alternative, clean, green, renewable energy technologies

Jobs
Reduced Risks
Positive Public Image
Rural Wind Development Focus: Preserve, Protect, Develop, and Restore Resources

- Limit and reduce pollution, air and water
- Enhance existing communities through job creation and property tax revenue
  - Local property tax revenue potential: 100 MW can be ~ $500K to $1MM per year
- Reduce the need to withdraw water
- Minimize the loss of farmland due to lease payments from wind developers
  - Land lease payments potential: 2-3% of gross revenue or $2500-$4000/MW/year
- Will be sited to mitigate wildlife impacts
February 8, 2007….Strickland, Fisher Announce Wind Production and Manufacturing Incentives

• $ 5 million in grants available
• $0.01/kwh generated
• Plus $0.002/kwh generated for Ohio manufactured turbines
• Community-scale projects (500 kw – 5 MW)
• Utility-scale projects (> 5 MW)
• Begin commercial production before December 31, 2008
Ohio’s Solar Potential?

• If solar panels covered one half of one percent of the State, they could supply the equivalent of Ohio's yearly residential electricity load (43,280 million kWh).

• More realistically, this "sunpowered" tract of Ohio land 14.6 miles on a side (or 214 square miles) could also be dispersed across the Buckeye State (40,953 square miles) with smaller PV systems sited near or on building rooftops as distributed generation.

• Using commercially available, 12% efficient modules without storage, an acre of land optimally covered with PV around Dayton, Ohio could be expected to produce an estimated 325,000 kWh annually.
Show me the Money
Resources from the OEE

Energy Loan Fund Linked Deposit “Loans”

Through participating banks:
Huntington, Columbus; Fifth Third, Dayton; National City, Toledo

Technologies
■ Energy Efficiency – existing structures or new structures on brownfields or grayfields
■ Renewable Energy-existing and new structures

State participation: $500,000 maximum; CD up to five years

www.odod.state.oh.us/cdd/oee
Resources through OEE

Energy Loan Fund
(aka Advanced Energy Fund)

- NOFA 07-01 Distributed energy
  - 25% project cost up to $100,000
  - Cogeneration/combined heat & power
  - Microturbines
  - Biomass/landfill gas

- NOFA 07-02 Solar or wind electric
  - Maximum ~50% or $100,000

www.odod.state.oh.us/cdd/oee
Advanced Energy Fund - Grants

Residential Renewable – NOFA 07-03

• Maximum $25,000 per award
  
  • Solar Electric
    • 1 kw minimum, $3.50 per watt

  • Solar Thermal
    • Lesser of $30 per kBtu/day or 50% of eligible cost

• Wind
  • $2.50/watt, Up to 50%
Energy Loan Fund – Low Interest Loans

- Low-interest linked deposit loans
- Utility-funded
  - AEP-Ohio, DP&L, Duke, First Energy
- Can serve as match to your USDA 9006 Applications
- Advanced energy (renewable energy…) or energy efficiency projects
- Administered by the Ohio Energy Office
- Available through “Participating Banks” - list on OEE website
Energy Loan Fund – Eligible Projects

- Energy efficiency related costs
- Works with HB264 for K-12 schools
- Existing construction rehabilitation
  - Building Shells
  - Mechanical Systems
- New construction (costs above code)
  - Additions to existing facilities, or
  - On brownfields or grayfield only
- Equipment/systems (purchase and installation)
NOFA 07-01 (DER) Grant

- The NOFA is currently open
- Projects to be eligible must be:
  - Installed in Ohio
  - Installed a service area of an investor-owned utility
- ELF Loans must be used as part of this match Requirement.
- All forms available [www.odod.state.oh.us/cdd/oee](http://www.odod.state.oh.us/cdd/oee)
NOFA 2007 DER Eligible Projects

- Distributed Energy Resources (DER) = Clean Burning
  - Clean Burning Reciprocating Engines (must meet California Standard)
  - Industrial Turbines
  - Microturbines
  - Innovative use of waste heat CHP/Cogeneration
  - Landfill or biomass methane
Other Financial Resources & Assistance

- SEP - State Energy Plan
- SEP Special Projects – Competitive Solicitations
- Conversion Facilities Tax Exemption
- Ohio Air Quality Development Authority
Ohio Air Quality Development Authority (OAQDA)

An independent state agency dedicated to making Ohio's air cleaner by helping businesses, government agencies and not-for-profit organizations pay for projects that reduce air pollution.
Ohio Air Quality Development Authority

Provides financing and tax incentives. Projects financed through OAQDA are exempt from:

- real property tax assessment for the life of the loan;
- Ohio's tangible property tax; and
- sales and use tax for purchase of equipment to reduce air pollution.

1-800-225-5051  www.ohioairquality.org/
Federal Tax Credits

Insulation, Selected high efficiency heating & cooling, replacement windows
Maximum $500
During two year period Jan 1 ’06 – Dec 31 ’07

Qualified solar water heating and solar electric (PV)
30% of cost up to $2,000
During three year period Jan 1 ’06 – Dec 31 ‘08