



# Energy Independent Communities: 25x25 Plan Grants Pilot Presentations 3<sup>rd</sup> Quarter Report

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# Overview

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- **Energy Independence Team Members**
  - Individual Members
    - Reasons for including certain members
  - Team Meetings
- **Challenges/Opportunities**
  - Obstacles to share for future Energy Independence Teams
  - Beneficial information that has been gathered
- **Potential Projects**
  - Targets for funding (i.e. EECBG & others)
- **Renewable Energy Sources & Feedstocks**
  - Wind, solar, biogas, biomass, hydro, other





# City of Evansville, Wisconsin Energy Independence Team

**Energy Independence Team Members-15 members meet first Tuesday morning of each month from 7:00-8:30 a.m.**

Individual Members selected for past participation in Evansville Initiative, a group promoting community energy awareness, adding additional members to broaden foundation for future school/business/community participation.

- City-mayor; alderperson (former mayor); public works superintendent; water & light superintendent; water & light retiree rehired to collect energy data; WPPI Energy local service representative; City Hall employee for staff support.
- Business-Chamber of Commerce president; local greenhouse owner (uses solar energy in business); local businessman who is energy consultant.
- Education-school district administrator; political science professor at Beloit College/former school board member; middle school teacher/coordinator of annual energy fair.
- Citizens-former alder with energy interests; citizen knowledgeable about wind.





# City of Evansville, Wisconsin Energy Independence Team

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## Challenges/Opportunities

### Obstacles

- Individual vehicle data was not available.
- Gallons of fuel purchased not always available.
- Several buildings and lights not separately metered.
- Inventory of street lights was time consuming.

### Beneficial information

- Focused employee attention on immediate savings, e.g. soda machine and phantom energy.
- WWTP upgrade was in planning stages-looked at project for first energy savings.
- Encouraged review of efficiency of municipal equipment.
- Street light information now detailed.





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## Potential Projects

Targets for funding (i.e. EECBG & others)

- 100 kW wind turbine at WWTP site-EPA Climate Showcase Communities grant; Focus on Energy incentive; WPPI Energy incentive; WPPI Energy community loan program.
- WWTP, including vertical loop reactor, geothermal, energy efficient variable speed pumps-stimulus funds awarded.
- LED street light upgrade and building retrofit (interior lighting or HVAC)-EECBG.
- WPPI Energy community loan program available to undertake additional efficiency/renewable energy projects, e.g. needed tuck pointing of 117 year old City Hall.



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## Renewable Energy Sources & Feedstocks

### Wind

- 100 kW turbine at WWTP site. Locations for two additional 100 kW turbines identified.
- Community wind project proposed in Town of Union. Town ordinance enacted during moratorium. Test tower monitoring wind speed. Three 1.5 MW turbines connected to local utility would provide approximately 18% of annual community use.

### Solar

- Projects possible at WWTP and Public Works facilities.

### Biogas (landfill, agriculturally-based)

- Larson Acres, with herd of 3500-4000 dairy cows, likely location for methane digester that could feed to Evansville Water & Light.

### Biomass (wood, prairie grasses, other)

- Agrecol pelletizing chaff, stover, etc. as fuel product.
- Soybean Capital of Wisconsin.



# City of Evansville, Wisconsin Energy Independence Team

## Additional Comments, Observations, Recommendations

- **Planning grant implementation shows city “leading by example”. Monitoring of efforts with Energy Star Portfolio Manager, making results available to citizens on website.**
- **Multiple stakeholders are important.**
  - School district-1400 trees planted as part of school/community forest project. Coordination of eighth annual energy fair on Arbor Day 2010 with attendance of 1500-2000 people.
  - Citizens and businesses annually purchase 928,800 kWh of renewable energy.

**Sandy Decker, Mayor**

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