



# Energy Independent Communities: 25x25 Plan Grants Pilot Presentations 4th Quarter Report

Dennis Bednarski & Lisa Geason-Bauer  
City of Oconomowoc Utilities  
Green Bay, WI  
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12/15/09

# Overview

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**What was measured? Why?**

**Discoveries/Surprises**

**Total Projects Considered**

**Pathways to 25 x 25**

**Projects Selected – Explanation**

**Potential Renewable Feedstocks**

**Existing Unknowns: Necessary Information for Future**

**Action Steps – Immediate & Long - Term**

**Energy Independence Team Members**



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What was measured?

Municipal energy usage & type of energy used

Why ? The City of Oconomowoc owns an electric utility & 53% of energy used by City is electrical





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## Discoveries/Surprises

- Lead by Example Team goal for 2009 was to encourage purchasing of “green blocks of power.” Saw a 200% increase from Jan. to Nov. 2009.
- Education & outreach across various mediums of communication are key to garnering community support
- For a project to be successfully implemented in Oconomowoc the project needs to have support from community (especially the eco-minded citizens)



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### Total Projects Considered

- (1) create sustainable municipal codes for City
- (2) Replacement of all existing street lights to LED fixtures
- (3) Relamping the City of Oconomowoc Public Library
- (4) City Hall Heating & Cooling System replaced with Geothermal closed loop system & heat pump
- (5) Inclusion of green principles into the design/construction of Fire Station # 2
- (6) Hydro Dam projection for City of Oconomowoc
- (7) Assess city of Oconomowoc buildings for solar water heating systems & install systems in buildings that qualify
- (8) NEV charging stations located around City
- (9) replacement & upgrade of all utility transformers to meet US Dept. of Energy requirements
- (10) Upgrade of Oconomowoc's downtown district's electrical system



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## **Pathways to 25 x 25**

- \*Reduce energy usage by implementing cost saving technology
- \*Encourage investment in local renewable energy projects
- \*Changing our culture
- \*Increase amount of renewable energy purchased by residents & businesses
- \*Education and outreach to residents & businesses



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### Projects Selected.....

#### Reduce energy usage via new technology

- Replacing all street lights with LED fixtures
- Relamping public library
- incorporating green design/build features into Fire Station # 2

#### Encourage renewable energy projects

- Replacing heating & cooling system at City Hall with geo-thermal
- fire station generating 5% of energy from solar

#### Changing the culture

- adding sustainability features to municipal codes
- evaluating vehicles (NEV, PHEV, bikes, cycles)

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### Potential Renewable Feedstocks

Wind

Solar

Biogas (landfill, agriculturally-based)

Biomass (wood, prairie grasses, other)

Hydro

Other

Based on our business model and location in state at this time feedstocks do not make sense. Hydro could be considered in future





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### **Existing Unknowns: Necessary Information for Future**

- More details are needed for sustainable building codes
- Continue to build accurate database for energy usage
- Will continue to seek alternative funding sources to implement projects
- City Utilities will continue to be proactive at planning long term
- Education and outreach with community will continue through Lead by Example Team
- City currently purchases 25% of municipal load as renewable energy. The percentage is expected to increase in the future.



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### Action Steps – Immediate & Long – Term

- \* Educate public to benefits of LED through pilot street lighting program
- \* incorporate projects into City capital improvement plans
  - replacement of all street lights with LED lights
  - library relamping
  - geo-thermal & heat pump for City Hall
- \* Finish construction of green built fire station # 2
- \* Planning department to work sustainable codes into department plan of work
- \* Ongoing
  - working across municipal departments to reduce energy/fleet vehicle usage
  - education and outreach
  - open to learning/improving knowledge base



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Dennis Bednarski, Oconomowoc Utilities

Jerry Braatz, Waukesha County UW Extension

Robert Duffy, City of Oconomowoc Economic Development

Jason Gallo, City of Oconomowoc Planner

Diane Gard, City of Oconomowoc Administrator

Lisa Geason-Bauer, Lead by Example Team

Greg Hoffmann, Energy Service Rep. WPPI Energy

David Nold, 4<sup>th</sup> District Alderperson, City of Oconomowoc

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Dennis Bednarski

Oconomowoc Utilities

262-569-2196

[www.oconomowocutilities.com](http://www.oconomowocutilities.com)

