Organizational Background and Integrated Energy Communities

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Presented at
Northland College
November 1, 2007
Energy Center of Wisconsin

Located in the University of Wisconsin Research Park

455 Science Drive, Madison, Wisconsin
Who We Are

- Est. 1989, the Energy Center of Wisconsin is an independent, non-profit
- Our Mission: to develop solutions to energy challenges that promote economic and environmental sustainability through innovative research and education
What We Do

- **Technology research** paves the way for new energy-related technologies
- **Program planning, design and implementation** puts those technologies to work
- **Program evaluation and market research** improves the delivery of energy programs
- **Professional education** programs keep energy professionals current on industry trends and new technologies
- **Work with communities to help integrate energy planning** into their sustainability and carbon reduction goals to improve their overall quality of life
- **Outreach** communicates the results of energy research to audiences who can put that information to work
- **Library services** offer a repository of energy materials for researchers and others
Energy and Environment

The Energy and Environment group examines the environmental, economic and technical issues associated with energy use.

- Biomass resource assessments
- Integration of energy concepts into community planning
- Case studies of renewable energy and innovative design installations
- Conversion of technical information for lay audiences

www.ecw.org
Projects

- Renewable Resource Mapping Tool for Wisconsin (ongoing)
- River Falls Campus Energy Independence Study (current)
- Governor’s Global Warming Task Force
- Governor’s Biobased Industry Consortium 2005-6
Xcel Biomass Assessment

- Biomass in counties within 50 mi. radius of Bay Front
- Wood industry
- Harvest
- Dedicated biomass

www.ecw.org
Governor’s Biobased Industry Consortium Process:

653 resource product chains
Political Tide Turning

"Your political base will melt away as surely as the polar ice caps... You will become a political penguin on a smaller and smaller ice floe, drifting out to sea. Goodbye, my little friend."

- A. Schwarzenegger
Local Action at Forefront

- Mayors of 691 cities have signed on to the US Mayors CPA
  - Most are not sure where to start
- Sustainable Chequamegon Initiative
  - “Green Teams” are making a difference – specialization and innovation
  - Model for communities in the state – attracting interest of Office of Energy Independence
Integrated Energy Communities

- Measure your progress so far
- Help you further refine community/regional goals
- Provide structured analysis and ranking of options
- Jointly develop a plan to achieve goals
Practice Area Roles

Building Performance
- Improve building energy efficiency
- Examine multi-bldg integration
- Evaluate design/equipment options

Energy Research
- Define goals and monitor effects
- Guide choice of options
- Establish best practices

Energy and Environment
- Explore innovative resource uses
- Maximize environmental benefits
- ID policies, practices, technologies

Education and Outreach
- Communicate goals
- Describe options/impacts
- Publicize accomplishments

Integrated Energy Communities
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