

Energy Action Team Progress Report

June 18, 2015

The Ozaukee County Energy Action Team is charged with:

- Assessing historical and current energy use associated with county government operations;
- Evaluating and recommending energy goals, practices, and policies; and
- Developing a plan of action to implement energy-related projects and initiatives

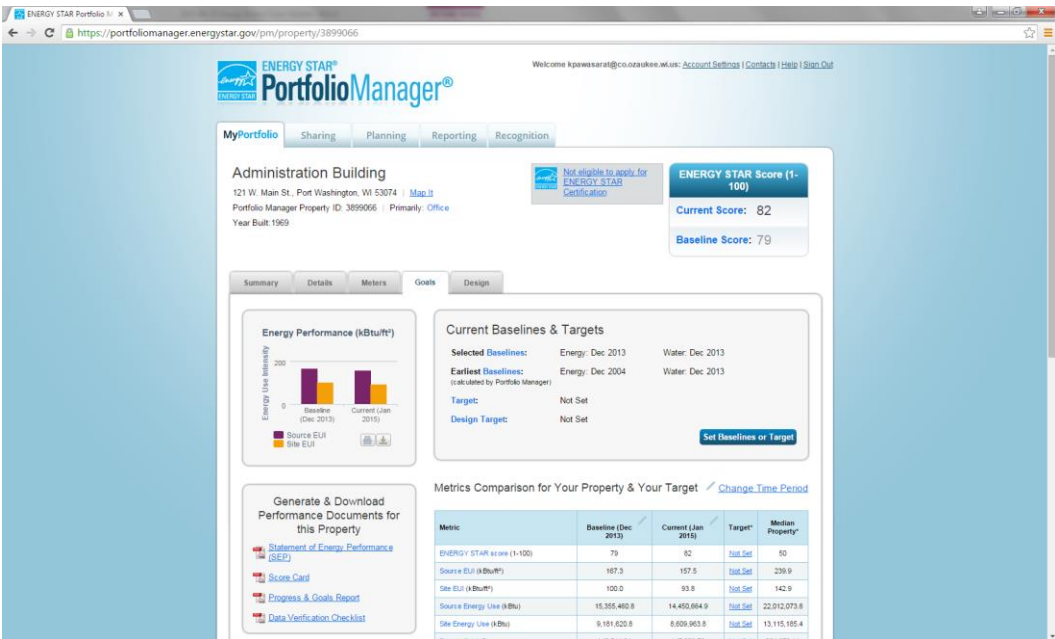
The following is a brief update on the team’s progress over the last six months.

1 ASSESSING ENERGY USE

Recently there have been two significant efforts to assess county government energy use. The first is to establish a database of county utility account data in an online energy management and tracking tool called EPA Portfolio Manager. The second is to perform Level 2 Energy Audits at the county’s largest facilities.

1.1 EPA PORTFOLIO MANAGER

One of the primary responsibilities of our energy intern is to review and organize data from approximately 75 utility accounts for various county facilities and operations for 2013 and 2014. That information is now accessible online through EPA Portfolio Manager and allows us to establish an energy baseline for the county and run reports on our energy use. New data can be added on a periodic basis as it becomes available.



Screenshot of EPA Portfolio Manager Website

1.2 LEVEL 2 ENERGY AUDITS

Jeff Mackey with We Energies has completed Level 2 Energy Audit reports for the Justice Center, Lasata Care Center and the Highway Department's office building, repair shop, and garage. The audit reports include the following information:

- An overview of the site (square footage, occupancy hours, etc.)
- Energy use rankings based on a national survey of commercial buildings
- Energy analysis by use category (heating, ventilation, lighting, etc.)
- Energy cost breakdowns by category and energy type (electricity, natural gas)
- Recommended energy conservation measures
- Recommended energy saving targets

In May, Jeff Mackey and Kate Pawasarat met individually with county staff from each building (Monte Hale for the Lasata Care Center, Gerard Behlen for the Justice Center, and Jon Edgren for the Highway Department) to discuss the results of the reports in detail.

Moving forward, a Level 2 Energy Audit will be scheduled for the Administration Building in the near future and Level 1 Energy Audits may be scheduled for the Mee-Kwon and Hawthorne Hills golf courses.

2 EVALUATING AND RECOMMENDING GOALS

At the last Energy Action Team meeting, the team agreed on a preliminary policy statement and six goal statements to guide the team's work.

Policy Statement: *Ozaukee County is committed to economic and environmental stewardship to improve the quality of life for its current and future residents and will strive to be a role model in the development and operation of sustainable and energy efficient county government facilities and programs.*

Goal Statements:

Energy	Reduce energy use associated with county government operations.
Water	Promote water conservation and stormwater best management practices.
Waste	Promote the reduction, reuse, and recycling of resources as an alternative to landfill-bound waste.
Transportation	Explore opportunities for reducing fuel usage by county government vehicles.
Sustainable Design	Promote the use of energy incentives and LEED standards in new construction, renovations, and equipment replacement.
Education & Awareness	Increase knowledge and awareness among county employees and the residents of Ozaukee County on sustainability and energy saving programs and practices.

The goal statements were shared with the Natural Resources Committee on December 4, 2014 and with the County Board in a presentation on January 21, 2015. Since then, our energy intern has been working to compile background information and research on each of these goal areas.

3 DEVELOPING AN ACTION PLAN

At the last Energy Action Team meeting, the group discussed strategies for developing an action plan and decided to utilize a framework similar to the one used to develop the county's Comprehensive Plan. For each of the six goal statements, the team will work to develop more detailed objectives, policies, and programs.

The following is a sample of potential objectives from the Comprehensive Plan and other sources to serve as a starting point for discussion:

Energy

- Reduce county energy use X% by the year 20XX. (We could roughly estimate what this might require in terms of projects and costs using information from the energy audits)
- Develop a list of lighting, HVAC and shell improvements to raise Energy Star Portfolio Manager Score (Source: Green Tier)
- Encourage the use of alternative energy sources. (Source: Comprehensive Plan) *Note: The solar project at the Transit Services building could fit here.*

Water

- Track water use and sewer use annually and develop plan for reductions (Source: Green Tier)
- Develop a water efficiency and conservation plan for county buildings (Source: Green Tier)

Waste

- Support the pharmaceutical collection program operated by the Ozaukee County Health Department. (Source: Comprehensive Plan)
- Implement cooperative programs to reduce the human and environmental risks posed by household and agricultural waste, including hazardous waste. (Source: Comprehensive Plan)
- *Note: Printing management objectives may also fit here*

Transportation

- Calculate annual government fleet use of motor fuels, in gallons of petroleum and biofuels (Source: Green Tier)
- Expand and enhance alternative modes of transportation. (Source: Comprehensive Plan)

Sustainable Design

- Design new County buildings in accordance with LEED (Leadership in Energy and Environmental Design) Green Building standards. (Source: Comprehensive Plan)

Education and Awareness

- Watt meters available to the public for free and education provided. (Source: Green Tier) *Note: UW-Extension has a Watt meter that can be made available for public use.*
- Use public education and outreach to promote recycling, backyard composting, product re-use and waste reduction. (Source: Green Tier)