

2010 Wisconsin Energy Independent Community Partnership

25 x 25 Plan for Energy Independence

Report completed by:
City of Jefferson



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Wisconsin Office of Energy Independence

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Overview

Introduction

The Wisconsin Office of Energy Independence (OEI) administers energy programs to assist Wisconsin to profitably and sustainably promote energy efficiency and renewable energy resources. The goal of the Wisconsin Energy Independent Community Partnership administered by the OEI is to effectively increase energy independent assessments for Wisconsin communities. Currently, there are many communities across the State of Wisconsin interested in implementing and adopting renewable energy and energy efficient projects. In 2010, the program assisted 11 communities/partnerships/counties that were pilots or models for completing an energy independence assessment, allowing the pilot to then move forward with energy efficiency and/or renewable energy projects.

Definition

- Energy Independent Community (EIC) – a community that is willing to set a goal of “25 by 25” to increase our energy independence, and promote a sustainable energy policy for the State of Wisconsin

Objectives

The objectives of the Wisconsin Energy Independent Community Partnership are to:

- Increase the use of renewable energy and renewable fuels by 25% by 2025 across the State of Wisconsin.
- Increase and promote public awareness regarding the benefits of increased energy conservation, energy efficiency, and renewable energy use by counties and municipalities around the state. These benefits include and are not exclusive to: clean air and water, intelligent land management, rural and urban economic development, as well as state and national energy independence.

Eligible Participants

Applicant must be a Wisconsin, city, village or town that has shown willingness to improve the community's efforts related to energy conservation, efficiency and potential renewable opportunities. Applicants, if they are responsible for their own municipal water, sewer, or electrical system, must be in compliance with all appropriate state and federal regulations. The applicants also must have passed a resolution identifying themselves as a partner with the State of Wisconsin in the pursuit of the “25 x 25” goals for energy independence.

City of Jefferson Commitment

Resolution

On October 6, 2010, the City of Jefferson Common Council adopted a resolution (See City of Jefferson Resolution, Document No 64. in Appendix B) which formally committed the City to the 25x25 energy independence goals. The resolution declared that Common Council of the City of Jefferson is a partner with the State of Wisconsin in the pursuit of “25x25” goals for energy independence. The resolution authorized the development of a Committee and the development of policies, guidelines, goals, and a Strategic Plan for the City.

Energy Independence Initiative

The Energy Independence Initiative will yield cost savings to taxpayers by reducing City energy and operating costs. The City of Jefferson committed itself to the long term goal of energy independence through the creation of an Energy Independence Initiative Committee by charter ordinance, adopted March 16, 2010.

Energy Independence Initiative Committee Ordinance

City of Jefferson Municipal Code § 14-15 reads as follows:

- A. Mission statement. The purpose of the City of Jefferson Energy Independence Initiative is to reduce by 25% the City's municipal energy and fuel consumption through conservation and the use of renewable resources by the year 2025. Energy and conservation policies and procedures adopted as part of the Energy Independence Initiative will be based upon sound economic cost/benefit principles and long-term financial accountability. The Energy Independence Initiative will promote and provide

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community education and outreach on topics related to energy, conservation and the use of renewable energy.

- B. Composition. The Energy Independent Initiative Committee shall be comprised of seven members. All members shall be residents or employed in the City of Jefferson, and include the Mayor, a council representative, utility commission representative, two community business representatives, and two community representatives. The City Administrator shall also serve as an ad hoc member to the committee.
- C. Appointments and terms. Members shall be appointed by the Mayor, subject to confirmation of the Common Council. The Mayor and council representative shall serve a one-year term. The remainder shall serve terms of five years, commencing May 1, with the term staggering so that at least one but not more than two terms expire annually.
- D. Powers and duties. Jefferson Energy Independent Initiative Committee shall serve as an advisory commission to the Common Council, advising the Council on all matters pertaining to the Energy Independence Initiative. Areas of responsibility shall include, but are not limited to:
 - (1) Determining a municipal energy use baseline and evaluate its sources;
 - (2) Inventorying energy uses;
 - (3) Designing an energy efficient and conservation strategy;
 - (4) Evaluating potential energy technologies;
 - (5) Matching energy needs to capacity;
 - (6) Preparing an energy independence plan with projected savings and implementation costs.
 - (7) Advising the council on issues of energy independence, efficiency and conservation.
- E. Energy Independence Initiative Team. In addition to the committee, City staff shall serve as the Energy Independent Initiative Team as follows: City Engineer (Team Leader), Wastewater Utility Superintendent, Jefferson Utilities Superintendent and Park and Recreation Director shall all serve as the Energy Independent Team. The Team shall provide administrative or technical support to the committee. At the discretion of the Team Leader, all department heads may be required to participate.

Energy Independence Initiative Organization

The Energy Independence Initiative has provided the framework for the City to develop the organization, membership, policies, and planning processes.

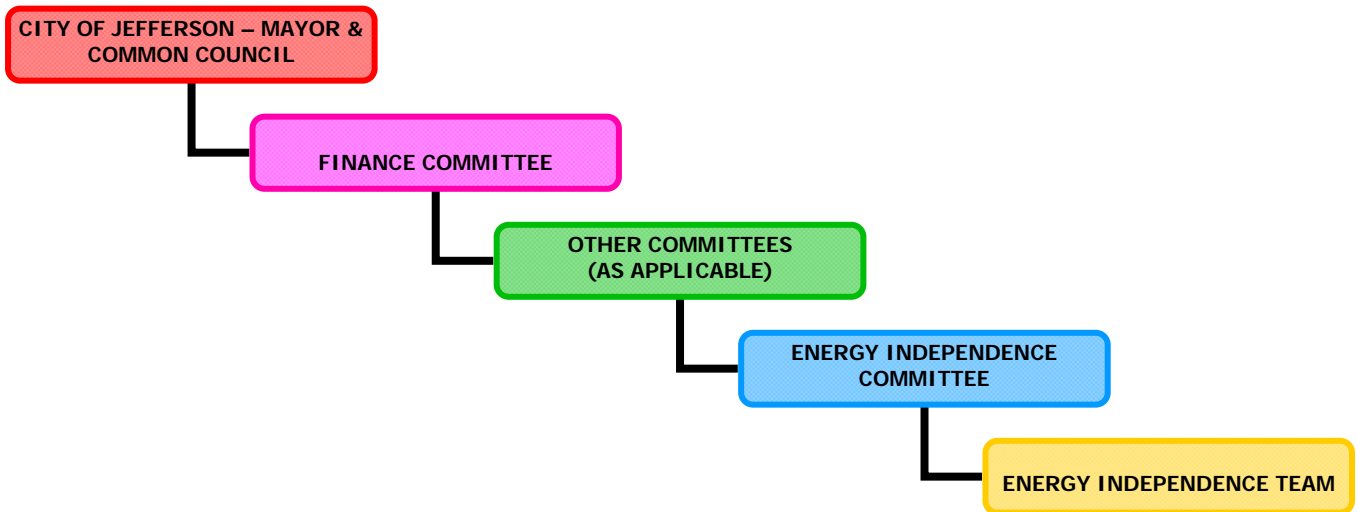


Figure 1. Organization Chart of the City of Jefferson Energy Independence Initiative

City of Jefferson Process Overview

In December 2009, the City of Jefferson (City) submitted an application to OEI to become one of their pilots for 2010. The City was selected as one of the 2010 pilots to complete an energy independence assessment and develop strategies to achieve "25 by 25". The City was responsible for measuring energy use and fuel

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~~consumption levels to assist with developing our energy use baseline, assess our anticipated energy usage~~
in the year 2025 and then develop a plan by December 31, 2010 that identifies the City's strategies to achieve 25% of the City's energy use in the year 2025 to come from renewable energy sources.

City staff began discussing the need for the City to develop a baseline for our energy use to better understand the amount of energy being used and where it was being used with the City Council. The Council understood the importance and worked with staff to create the Energy Independence Initiative Committee Ordinance City of Jefferson Municipal Code § 14-15.

In February 2010, the City of Jefferson was notified that we had received a grant from the Wisconsin Office of Energy Independence to complete our "25 by 25" plan. As a result, the City Energy Independence Initiative Team (Team) began meeting. The Team is made up of City Engineer/Director of Public Works Jill Weiss, Wastewater Utility Superintendent Mike Kelly, Jefferson Utilities Superintendent Bruce Folbrecht, Park and Recreation Director Cyndi Keller and WPPI Energy Representative Greg Hoffmann. Through 2010 the Team met at a minimum monthly.

The initial focus of the Team was to determine all the energy users in the City and then determine how best to obtain the energy usage records. All meter information was obtained to all the facilities. For electric this meant the Jefferson Utilities records. Jefferson Utilities provided excellent records that could be used from 2003-2009. For gas, We Energies provided records on-line for all the facilities from 2007-2009. For records from 2003-2007, We Energies provided print outs of the gas use for all the facilities. Fuel data was obtained from the City's fuel station records. Prior to 2006, the data was found to be incomplete so only 2006-2009 information was utilized. All this data was entered into the EPA Portfolio Manager or into the Energy of Wisconsin spreadsheets.

After the energy data was compiled and given to the Energy Center of Wisconsin for analysis to determine the City's baseline energy usage, the City began to focus on ways to reduce our energy usage through conservation/efficiency measures, behavior modification measures, and renewable energy opportunities available to the City. We also started to consider educational opportunities for our Team but also considered ways to involve and educate the public.

Facility audits were completed by both Focus on Energy and WPPI Energy. These audits were used to determine some of the proposed measures. Department heads were asked for suggestions that they felt could reduce the energy usage in their department. The Team used educational trainings and brainstorming to identify potential energy saving measures and renewable energy opportunities. The Team finally evaluated the measures utilizing the baseline tool provided by the Energy Center of Wisconsin. The final measures selected were based on what activities the City was already committed to completing and the sound economic cost/benefit of the measure based on long-term financial accountability.

To simplify the development of energy independence strategies to achieve "25 by 25" the Team developed these strategy components:

1. Administration
2. Facilities
3. Education
4. Renewable Energy
5. Fleet

The strategy components are overlapping in some cases, but assist in developing the road map to "25 by 25".

What was measured? Why?

In order to meet the City's 25x25 energy independence goals, it was necessary to measure the existing energy usage at City's facilities. The City measured all our energy usages as far back as we could obtain reliable records. This ultimately translated into energy usage for facilities from 2003 – 2009 for both gas and electrical usage (35 Facilities). The gas was measured per monthly billing cycles in therms and in total cost. The electrical usage was measured per monthly billing cycles in kWh and in total cost. For fleet and equipment energy usage only 2006-2009 data was reliable. The fuel data was identified by department, make/model, year, gallons of fuel (unleaded or diesel), mileage and vehicle hours as applicable. Personal vehicle usage was not measured as there are no mechanisms in place to measure the energy consumption where personal vehicles are used. We also measured lighting. If there was a direct facility that the lighting could be associated to, such as in the case of park lighting, we generally considered that to be a facility. If the lighting was not associated to a facility, it was recognized separately as lighting. Where possible lighting was considered a facility so that it could be included in EPA Portfolio Manager for long term record keeping.

Table 1. List of Facilities and Lighting in the City of Jefferson

(Energy Usage Obtained from all Facilities).

FACILITIES
Public Works Facility
Senior Center
Riverfront Park, Tennis Court
Jefferson Utilities/Police Department
EMS/Parks/Cold Storage
Aquatic Center
Stoppenbach Park
Stoppenbach Park Shelter
Tensfeldt Park, Soccer Field Concession Stand
Riverfront Park
Riverfront Park, New Shelter
Riverfront Park, Little League Stand
Museum - Oakridge Park
City Hall/Library/Meeting Rooms/Museum
Fire Station
Dam
Remote Fire Alarm
PD-Shooting Range/Compost Site
WATER
Wastewater Treatment Plant
Lift Station #1
Lift Station #2
Lift Station #3
Lift Station #4
Lift Station #5
Well #2
Well #3
Well #4
Well #5
LIGHTS
Street Lights (By Wattage)
North Street Bridge Lights
Fischer Field Lights
Riverfront Park, Playground Security Lighting

Table 2. Examples of the Fleet in the City of Jefferson (Energy Usage Obtained from all Fleet and Equipment – 96 Items).

Make	Model
1992 Case	Loader Backhoe
2002 International	Dump Truck
1999 International	Dump Truck
1992 GMC	Pick Up Truck
2006 International	Dump Truck
1988 GMC	Dump Truck
2005 Chevrolet	Dump Truck
1997 Chevrolet	Pick Up Truck
1997 International	Dump Truck
2000 Chevrolet	1 Ton Pick Up
1987 John Deere	672 B Grader
John Deere	Tractor Loader
1993 Elgin	Sweeper
2000 Chevrolet	¾ Ton Pick Up
1979	Leaf Machine
1989 Ford	Tractor Mower
Sincard	Snow Blower
2004 International	Dump Truck
1995 Morbark	Brush Chipper
1996 Dodge	Dakota
	Crack Sealer
2001 Clipper	Concrete Saw
1994 Ford	F-250 Pick Up
1995 International	4700 Truck
1994 Case	1840 Skid Steer
2009 Bandit	Brush Chipper
1996 Giant	Leaf Vac
1962	Band Wagon
Massey Ferguson	Mower & leaf
2000 Chevrolet	¾ Ton Pick Up
2000 John Deere	Endloader

To measure energy usage, first the energy users had to be identified. Then it was necessary to determine how best to obtain the energy usage records. All meter information was obtained to all the facilities. For electric this meant the Jefferson Utilities records. Jefferson Utilities provided excellent records that could be

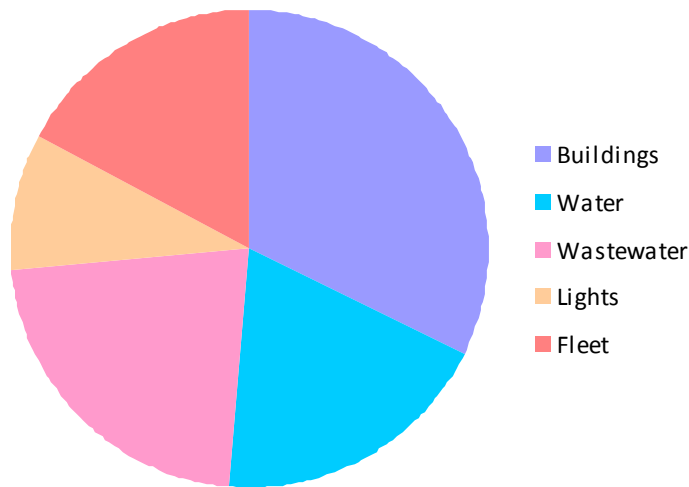
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For records from 2003-2007, We Energies provided print outs of the gas use for all the facilities. Fuel data

was obtained from the City's fuel station records. Prior to 2006, the data was found to be incomplete so only 2006-2009 information was utilized. All this data was entered into the EPA Portfolio Manager or into the Energy Center of Wisconsin spreadsheets.

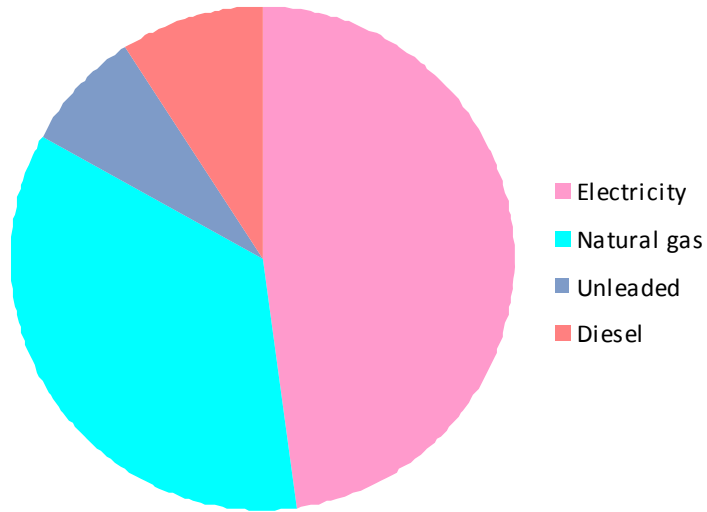
It was important in the City's process for the information we were recording to have meaning. So in many cases, we obtained more information than what was required by the Energy Center of Wisconsin to develop our baseline but we wanted to provide the clearest and most complete energy baseline possible. In many cases, during the data collection phase it was not known how useful some of the information would be, but since we were making the effort to gather all the information we felt that it was critical to be as detailed and systematic as possible with the information. It was the goal to have an accurate assessment of the City's baseline energy usage.



Total Consumption by End Use

<i>Energy end use</i>	<i>Percent of total</i>
Buildings	32%
Water	19%
Wastewater	22%
Lights	9%
Fleet	17%

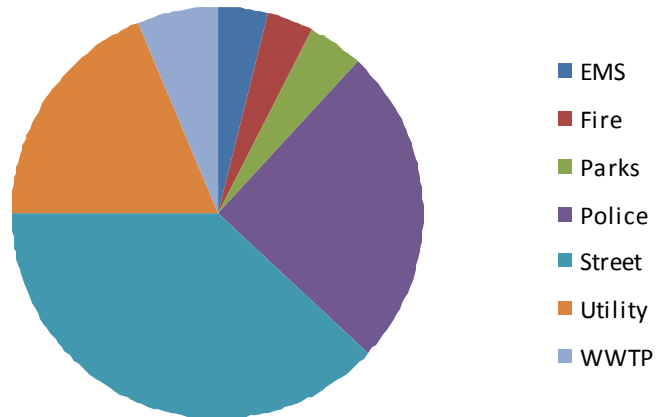
Figure 2. Energy Consumption by Use



Total Consumption by Energy Type

<i>Energy type</i>	<i>Percent of total Btus</i>
Electricity	48%
Natural gas	35%
Unleaded	8%
Diesel	9%

Figure 3. Energy Consumption by Type



Fleet breakdown by department

<i>Department</i>	<i>Percent of total Btus</i>
EMS	4%
Fire	4%
Parks	4%
Police	25%
Street	38%
Utility	19%

Figure 4. Fleet Consumption by Department

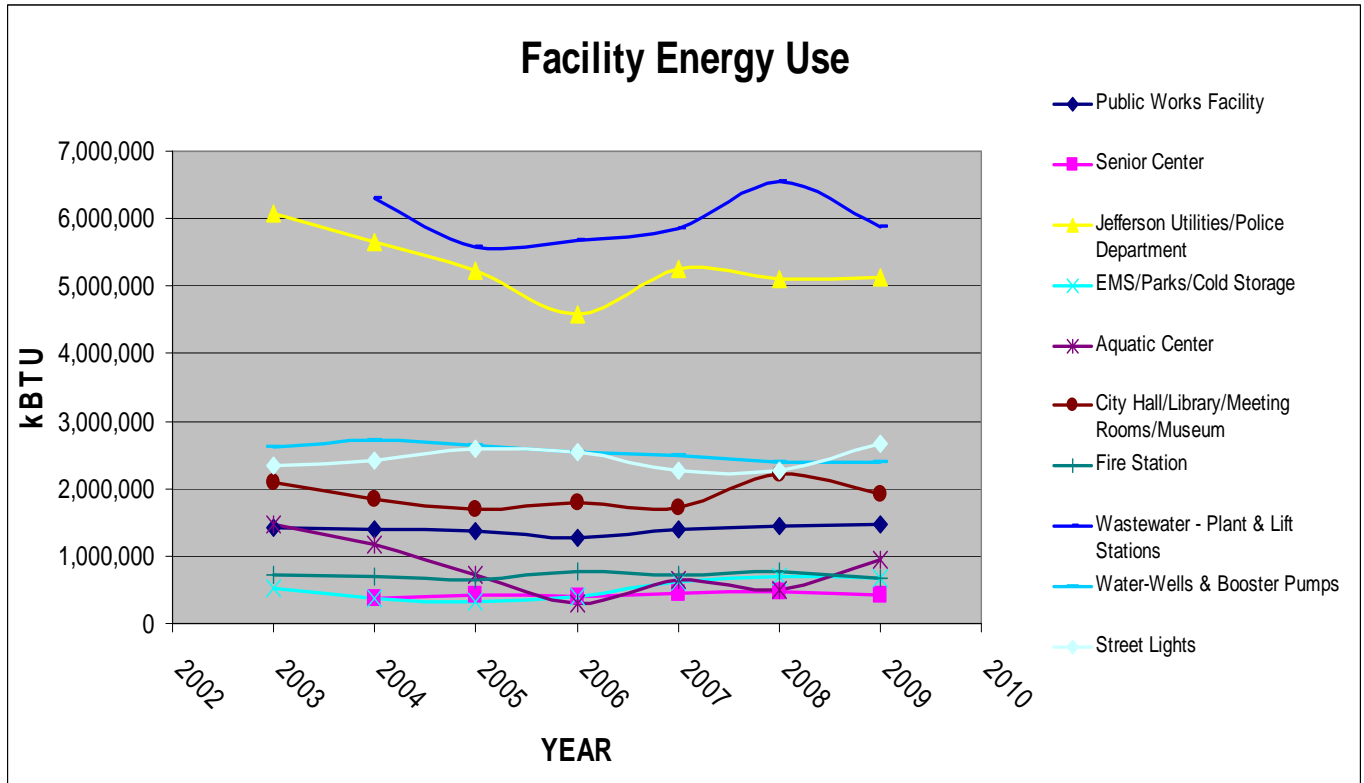


Figure 5. Energy Consumption for the City's Major Buildings/Facilities

Discoveries/Surprises

One of the biggest discoveries for the Team was the amount of energy conservation projects and efforts done at a department level but never considered at a City level. Throughout the last 5-7 years WPPI Energy had conducted numerous energy audits for various departments including City Hall, Public Works Facility, and the EMS Facility. All of the lighting recommendations had been implemented over the years improving energy efficiency at the department level of those departments that had obtained the audit. We focused on making sure that all the facilities obtained both a WPPI energy audit as well as a Focus on Energy audit.

Another discovery was the overall need to track our energy use and have a system in place so that it is tracked accurately and regularly. We found most concerning was the lack of accurate, useful information available through our fueling station system. The information was not easy to process or utilize. We also found that for a number of vehicles inaccurate mileage or hours were entered by staff when they fueled vehicles or equipment, which minimized the analysis of the data.

Our newest facility, the Jefferson Utilities/Police Department building which was a combination new construction and remodel, completed 2000, is our second most significant energy user. Figure 5. Energy Consumption for the City's Major Buildings/Facilities shows the amount of energy consumed by this facility as compared to our other main facilities. As a result, this facility is under a review of its heating, ventilation, and air conditioning (HVAC). It is evident by the amount of gas used at the facility that the top energy user at this facility is the HVAC system.

A big surprise to the City is how much one project could potentially impact the City's energy use. Review the street lighting energy usage in Figure 5. Energy Consumption for the City's Major Buildings/Facilities. In 2008, the Wisconsin Department of Transportation (WISDOT) reconstructed U.S.H. 18 which is the main east – west roadway through the City of Jefferson. As part of this project, the lighting was redone. The City never considered the potential impact that this lighting retrofit would make on its energy usage. The lighting installed significantly increased our energy use and the reasons for this was the overall design on the system. The design and ultimately installation has the spacing of the lighting very close, the wattages are very high, and the technology is old. The City is working to make a policy to review all major projects for energy usage prior to any plan approvals so that installation can not occur without the anticipated energy consumption being reviewed.

Another surprise to us was some efficiency changes have negative effects. These are difficult to quantify for this study as we looked to achieve "25 by 25" but we are definitely aware that some efficiency measures may not truly reduce the energy usage as much as anticipated. A good example of this is in 2008 we completed an interior lighting retrofit. We found, as expected, that this reduced our electrical usage, but to our surprise we also increase our gas usage. Higher efficiency lighting wastes less energy through heat losses which results in needing to use more gas to heat the same space. Lighting retrofits are still a net energy savings, but this example shows that there are can be unexpected results and care must be taken when implementing an energy saving strategies.

Another major discovery known by all but a few at the City that the wastewater treatment plant has an anaerobic digester which makes methane and part of the methane is used to heat the anaerobic digestion process but the remainder of the methane is flamed off. The digester could provide a renewable energy source to the City and much of the needed infrastructure is already in place. A feasibility study was already being considered prior to the City becoming an OEI pilot community

The amount of energy used ((26,890 million Btus for all energy used) which includes 3.75 million kilowatt hours of electricity and 94 thousand therms of natural gas) for all City facilities and the amount of fuel used (16,713 gallons of gasoline and 17,451 gallons of diesel fuel) for all City vehicles, was a major surprise for all. Annually, the City uses enough electricity to operate over 300 homes. We now know that the City uses a significant amount of energy each year, in dollars and Btu's. Although energy efficiency efforts have been ongoing for a number of years, our new Citywide coordinated review of energy use provides tremendous opportunities to reduce energy consumption and carbon emissions.

Another discovery was the progress over the past several years in the development of various energy and fuel technologies. Significant progress has been made in Photovoltaic (PV) Solar Electric, Solar Hot Water,

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Wind Turbine technologies, anaerobic digestion and Geothermal. A major discovery to the City was also the incentives that are available to implement some of the renewable technologies. The City is and continues to be very interested in the development of all technologies and will be selecting those that best help meet our energy goals while offering the most cost efficient solutions.

Total Projects Considered

Through this process over 90 measures to achieve "25 by 25" were evaluated. The Team in developing a 25x25 Energy Independence Plan focused on five major strategies. The first strategy is administrative policies and procedures that are necessary to implement long-term economically sound sustainability including energy efficiency and renewable energy practices. The next is a facility energy strategy that focuses on efficiency and conservation improvements and renewable energy projects at the buildings or facilities located throughout the City. The third strategy is education programs that are focused on community education and staff education. Educational programs benefit both community groups and City citizens and employees. The City also intends to use the education programs as a way to create and foster partnerships. Renewable Energy production and Fleet strategies for gasoline and diesel fueled vehicles as well as equipment are the final two activities strategies.

Administration

The Team and Energy Independence Initiative Committee reviewed City policies, procedures, and programs that it felt are necessary to successfully implement a City wide energy plan that would meet the 25x25 energy independence goals. Policies and procedures considered included energy conserving purchasing, energy policy for all city energy use, energy policies for each department, energy design criteria for renovation and new construction projects, energy design review for all renovation and new construction projects, building energy schedules, workplace environment, and energy and fuel purchasing. Program evaluations included copier and printer analysis, procurement documents, energy efficiency driver training, behavior modification training, and department contests for energy saving. Other program evaluations that might be more long-term included energy partnerships with vendors and suppliers, document handling, consolidated procurement with municipal energy partners, and alternative transportation methods.

Facilities

The City established a baseline of 3.75 million kilowatt hours of electricity and 94 thousand therms of natural gas that is used annually in approximately 32 minor facilities which includes outdoor lighting throughout the City. There are 10 major facilities within the City that warrant significant evaluation. We felt that our first effort should be to insure all buildings were operating as efficiently as possible. City completed energy audits for major facilities to identify efficiency opportunities in facility operations. Most of these audits were completed with the help of WPPI Energy and Focus on Energy. We felt it would be most cost effective to consider buildings for auditing that would provide the best energy savings from the auditing effort. Typically measures evaluated were lighting (interior and exterior) and HVAC retrofits. Facility specific energy efficiency measures were evaluated as well. Examples of these are items such as a pool cover for the Aquatic Center and on-demand hot water system for the Fire Station.

The remaining facilities have been reviewed to determine if there are any energy efficiency improvements that can be made. Where audits were completed by WPPI Energy and/or Focus on Energy, these facilities were such small energy users that the improvements could not save enough energy to ever pay for the improvement. We will continue to review these minor energy users to verify that there are not new options for them in the future.

Measures we also considered were the removal of energy users wherever possible. True conservation was implemented by considering what we truly do not need to have for the City to continue to operate successfully.

Education

The Team and Committee considered various educational programs that will help convey information regarding the City's Energy Independence Initiative to employees and citizens. Initially the City started small in regards to its educational efforts by posting information on its website and on Facebook. From those small efforts the City developed its Energy Independence Initiative Educational Series (EIIES). The first EIIES program occurred on November 11, 2010. This was intended to be the Series kickoff event so the intended audience was very broad. We invited citizens (County wide), business owners (commercial and industrial), and all municipalities in the County. We had over 100 people in attendance. It is the intent of the City to continue to hold the EIIES quarterly and modify each program so that it is geared more closely to specific audiences. We want to provide information on energy conservation, energy efficiency and renewable energy opportunities. Upcoming events include 'What is Renewable Energy?' and 'Meet an Energy Innovator: Orion'. A City wide energy recognition program is in the works that will recognize business and individuals for their energy independence efforts.

The second component of our education strategy is to educate City staff and elected officials. This includes providing formal off-site training opportunities for staff and internal educational programs to initiate behavior changes that equate directly to energy savings.

Renewable Energy

The City investigated various technologies for building site renewable energy projects for both immediate and long-term timelines. These included photovoltaic and wind for generating electricity, solar heating for hot water, geothermal for heating and cooling, and biomass for heating. We considered photovoltaic projects at all our major facilities. We investigated geothermal and biomass for new buildings and future HVAC upgrade projects throughout the City.

Projects evaluated include the following:

- distribution of landfill gas from Deer Tracks Landfill (5 miles north) to be utilized in a combined heat and power district in the proposed Renewable Energy Park on the north end of the City,
- distribution of waste heat from the Valero ethanol plant to be utilized in a combined heat and power district in the proposed Renewable Energy Park on the north end of the City,
- solar photovoltaic installed on the roofs of all major facilities for electrical production,
- solar hot water for facility domestic hot water,
- solar hot water for facility heating,
- small and large wind turbines located on the north west side of the City for electrical production,
- hydroelectric evaluation of the City dam for electrical production,
- geothermal retrofit for HVAC facilities,
- geothermal production district in the downtown area,
- anaerobic digester for production of methane utilizing existing processes and utilizing additional feedstocks for increased production of methane, and
- anaerobic digester for production of methane utilizing City waste feedstocks – brush, leaves, grass clippings, garden waste at the City's compost site.

Fleet

The City established an annual baseline of 16,713 gallons of gasoline and 17,451 gallons of diesel fuel used in 96 vehicles and equipment owned by the City. As with buildings, we felt that fuel efficiency and conservation projects should be considered as a part of our overall strategy for an alternative fuel program. City considered both training in fuel-efficient driving as well as the purchase of fuel-efficient vehicles as part of our fuel-efficiency and conservation efforts.

City investigated several alternative fuel vehicles including flex-fuel, hybrids, electric, fuel cell, and compressed gas vehicles. Fueling options evaluated include the following:

- Compressed Methane
- Ethanol
- Biodiesel
- LP
- Natural Gas
- Electric
- Fuel Cells (Hydrogen On-Demand) to Work with Traditional

Typically we found that the cost of the fueling station and the reduced fuel mileage made most of the fuel alternates very unattractive. Electric may be an option if there was a renewable and economic fueling station available in the City. The alternative fuel vehicles do not have the high-performance capabilities some departments need.

Pathways to 25 x 25

The City pathways to “25 by 25” are based on our general strategies to achieve 25% of our 2025 energy usage from renewable energy resources. Our pathways involve activities related to our five major strategies.

1. Administrative policies and procedures will be implemented to change what we are doing or do what we do better so that we are able to become more energy independent by how we operate. All new projects and purchases will be held to new standards that insure energy efficiency and conservation for our future purchases and contracts. We will continue to evaluate our existing programs to find ways to operate more efficiently and economically sound.
2. Achieve maximum energy efficiency in our buildings and continue to develop current and new renewable energy resources at our facilities. Our current energy efficiency plan which will be implemented over the next 2-3 years will reduce our energy use by approximately 6 percent.
3. Education programs are being developed for our citizens, business owners (commercial and industrial), municipalities, and our employees. These programs will focus on energy independence and developing partnerships.
4. Renewable energy opportunities will continue to be developed and researched. Review, develop, and implement renewable energy measures will be our on going mission. Our “25 by 25” plan must be alive, and change and grow as technologies become more cost effective and new technologies are developed. Our most favorable renewable energy opportunity is utilizing our methane digester to create electricity. Simply utilizing the facility at our Wastewater Treatment Plant with some upgrades to generate electricity will produce 4-5 percent of our City's current energy use. We will continue to seek partnerships where we may be able to utilize tax incentives only available to tax paying entities.
5. The City will pursue projects for gasoline and diesel vehicles/equipment. We are currently looking toward fuel cell technology to make our vehicles more efficient without costly fueling station change out and vehicle modifications.

Projects Selected – Explanation

The City selected our “25 by 25” projects based on return on investment (ROI) or our savings to investment ratio (SIR) determined by the Energy Center of Wisconsin baseline tool. We also selected projects that the City was vested in currently. These projects may not have as high SIR but the City is already committed to the project or there has been an obvious desire to pursue the project. The explanation of our selected projects is organized by our five major strategies.

Administration

Our Team and Committee have been working on developing energy independence based policies and procedures to implement that will result in behavior modification, energy efficiency, and conservation throughout the City. We are working to implement policies and procedures that address the following: energy conserving purchasing, energy policy for all city energy use, energy policies for each department, energy design criteria for renovation and new construction projects, energy design review for all renovation and new construction projects, building energy schedules, and energy and fuel purchasing. Programs will include procurement documents, energy efficiency driver training, behavior modification training, and department contests for energy saving. We are looking to develop a long-term energy purchasing policy that will include energy partners with other major purchasing entities with vendors and suppliers, document handling, consolidated procurement with municipal energy partners, and alternative transportation methods (such as an NEV ordinance.)

Facilities

Energy Efficiency Projects

The City focused on our 10 major facilities since these showed a reasonable payback for most energy efficiency modification proposed for these facilities. Many of our major facilities have had energy efficiency measures completed. We felt that our first effort should be to insure all buildings were operating as efficiently as possible. The City completed energy audits for major facilities to identify efficiency opportunities in facility operations. Most of these audits were completed with the help of WPPI Energy and Focus on Energy. We felt it would be most cost effective to consider buildings for auditing that would provide the best energy savings from the auditing effort. Typically measures evaluated were lighting (interior and exterior) and HVAC retrofits. Facility specific energy efficiency measures were evaluated as well. Examples of these are such items as a pool cover for the Aquatic Center and on-demand hot water system for the Fire Station.

The following projects were selected because they either had high SIR or they are projects that the City is committed to completing:

- Lighting Retrofits – Energy Efficiency Upgrades
 - EMS/Parks/Cold Storage
 - Fire Station
 - City Hall/Library/Meeting Rooms/Museum (Library)
 - Senior Center
 - Wastewater Treatment Plant (Maintenance Bay Lighting Building 78 & Lab Lighting Building 75)
 - Street Lights (Induction Retrofit)
- HVAC Retrofits – Energy Efficiency Upgrades
 - EMS/Parks/Cold Storage (Tune Up)
 - Fire Station (System Replacement)
 - City Hall/Library/Meeting Rooms/Museum (System Replacement)
 - Jefferson Utilities/Police Department (System Modifications)
 - Wastewater Treatment Plant - Building 75 (System Replacement)
- HVAC Modifications – Setback Thermostat Installation
 - EMS/Parks/Cold Storage
- Hot Water - Energy Efficiency Upgrades
 - Fire Station
 - Jefferson Utilities/Police Department - On Demand Hot Water Heater

Hot Water - Water Temperature Reduction
Fire Station
City Hall/Library/Meeting Rooms/Museum
Senior Center
Motor/Pump Replacement
Wastewater Treatment Plant - Plant Upgrades
Aeration Blower #4 Motor
Channel Blower #2 Motor
Primary Clarifier #2 Motor
DAF Recycle pump #1 replacement
DAF Recycle pump #2 replacement
Clarifier Drive #1 Motor
Primary Clarifier Drive #1 Motor

All these projects are scheduled to be implemented from 2011-2015, with the least expensive modifications/retrofits occurring first.

Energy Conservation Projects

Projects that we also selected were ones that permanently remove an energy user. True conservation or not using the energy is very easy to justify because even with removal costs it typically pays back quickly. The following projects permanently removed the energy users and had relatively high SIR:

Senior Center - Remove Soda Machine
Warming House – Remove Facility

Other projects that we selected were considered conservation projects, because they did not replace an energy user with a high efficiency retrofit. The conservation projects operate so that the main energy users do not have to work as hard. In the case of the fans, these will use energy for their operation but the amount of energy that they will save far out weighs their use. The following projects were selected because of their relatively high SIR:

Aquatic Center – Chemical Pool Cover
Public Works Facility - Fans to Push Hot Air Down to Floor Level - Mechanics Bays

Education

The Team and Committee evaluated educational programs that would help convey information regarding the City's Energy Independence Initiative to as many people as possible. We have decided to continue with our efforts by placing information on our website and Facebook. We will continue to invest in our Energy Independence Initiative Educational Series (EIIES) where we plan to invite citizens (City wide), business owners (commercial and industrial), and all municipalities in the County to attend these events. We will continue to hold the EIIES quarterly and modify each program so that it is geared more closely to specific audiences. We will provide information on energy conservation, energy efficiency and renewable energy opportunities. Upcoming events include 'What is Renewable Energy?' and 'Meet an Energy Innovator: Orion'. A City wide energy recognition program is in the works that will recognize business and individuals for their energy independence efforts.

The second component of our education strategy is to educate City staff and elected officials. This includes providing formal off-site training opportunities for staff and internal educational programs to initiate behavior changes that equate directly to energy savings. We will continue to develop this program as well and continue to encourage all staff and elected officials to attend the EIIES events.

Renewable Energy

The City investigated a large number of renewable opportunities; unfortunately many of the potential projects' saving to investment ratios are too low to justify the expense. Not being able to participate in the tax credit incentives, in many cases, is the difference in making the large scale renewables payback in a reasonable period of time. We will continue to review the available technologies and incentives to find additional renewable projects that will work for the City. The following are the projects we plan to continue to investigate:

Projects evaluated include the following:

- solar photovoltaic installed on the roofs of all major facilities for electrical production,

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- small and large wind turbines located on the north west side of the City for electrical production,
- geothermal retrofit for HVAC facilities,
- geothermal production district in the downtown area,
- anaerobic digester for production of methane utilizing additional feedstocks for increased production of methane, and
- anaerobic digester for production of methane utilizing City waste feedstocks – brush, leaves, grass clippings, garden waste at the City's compost site.

The City selected three main renewable energy projects to achieve "25 by 25" based on all the information available today. The following projects were selected because of their SIR was greater than one (1):

- solar hot water for heating the Aquatic Center pool,
- anaerobic digester for production of methane to produce electricity utilizing existing waste stream and processes, and
- the purchase of 2,800 renewable energy blocks (each block is 300 kWh for \$2.00 per block from WPPI Energy)

All of our selected practices are proposed to be implemented by 2016, except for the purchase of renewable energy block. This schedule allows for us to continue to pursue additional renewable energy opportunities prior to 2025.

Fleet

As with buildings, we felt that fuel efficiency and conservation projects should be considered as a part of our overall strategy for an alternative fuel program. City will implement training in fuel-efficient driving as well as the evaluation of fuel-efficient options with all vehicle/equipment purchases; both these items are considered part of our administration strategy. We estimate very conservatively that behavior modification training can reduce energy usage by a minimum of one (1) percent.

Currently, we found that alternative fuels generally do not have a reasonable payback. The cost of the fueling station and the reduced fuel mileage made most of the fuel alternates very unattractive. Electric may be an option if there was a renewable and economic fueling station available in the City. The alternative fuel vehicles do not have the high-performance capabilities some departments needs.

From all the options available, the hydrogen on demand fuel cell work being completed by the City of Beloit shows significant promise. This option does not require significant retrofitting of vehicles or the purchase of an expensive fueling station. We found that we currently have about thirty-three (33) vehicles/equipment that may be able to be modified to an on demand hydrogen system, however; only sixteen (16) are considered to be good candidates. These systems have shown to be able to double the fuel mileage of vehicles. Unfortunately, the technology is still in the development stages. We are planning for 2015 to be the time, when these fuel cells will be available and we will be able to retrofit 16 vehicles to the on-demand hydrogen system. As with the renewable energy strategy, part of our plan is to continue to seek out new opportunities and technologies for our fleet.

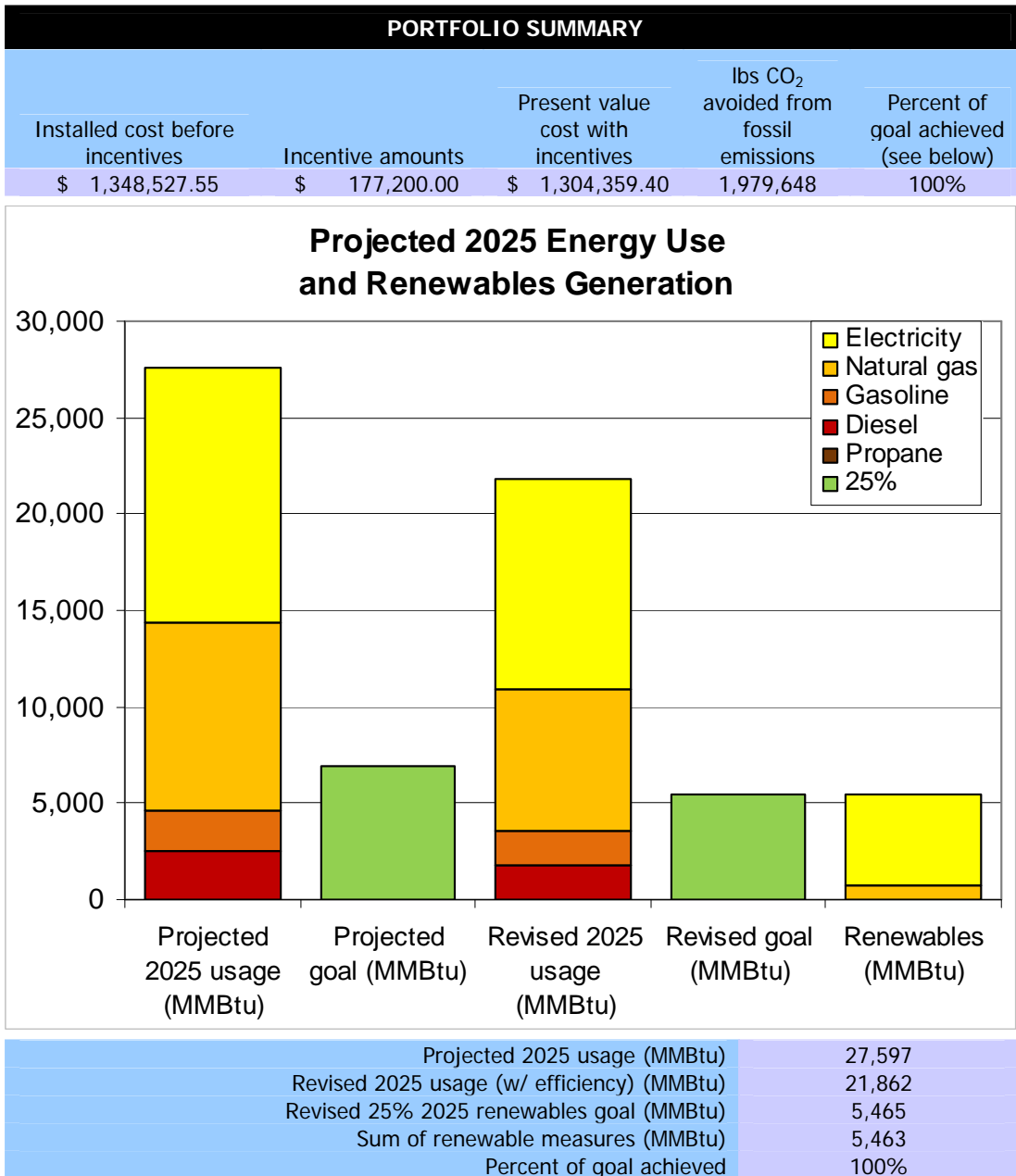


Figure 6. Baseline Results for Selected Projects

Narrative – Potential Renewable Feedstocks

Wind

West side of City has very favorable wind conditions. Currently will not reasonably pay back but worth continued effort to look for partners, incentives, and new technologies to make this a viable renewable option for the City.

Solar

Solar hot water system (Hot Water-Pool & Domestic Use)

From our preliminary feasibility studies, only the Aquatic Center pool is considered to be a viable use of solar hot water for heating the pool. Solar Hot water systems were considered for other facilities but were found not to be practical at this time.

Solar hot water system (Building Heat)

Solar hot water systems were evaluated for building heating but these were found to be the least efficient use of solar technology.

Solar (Electricity Production – Photovoltaic (PV))

Solar PV was evaluated for the roofs of all City buildings and is an option for the City. We are interested in roof mounted solar PV, however, at this time, it does not provide a reasonable pay back. (The City also reviewed ground mounted Solar PV but found roof mounting to be more economical.) We will continue to pursue partners, incentives, and new technologies to make this a viable renewable option for the City. We definitely see this as a potential option for us if we could find a partner for the tax incentives. A private company, Green States Energy, is working on a project 'Jefferson Sun One' that is proposed to produce 25 megawatts.

Biogas (landfill, agriculturally-based)

Biogas – City Wide

The City has been working to develop biogas options for their proposed Renewable Energy Park from the ethanol plant, Valero, and from other sources such as piping landfill gas 5 miles from the Deer Tracks Landfill in Johnson Creek. These sources are currently not viable but have solid promise in the future. Other such sources in the area include byproducts from local food producers, potentially other commercial/industrial byproducts and local agricultural wastes.

Biogas – Wastewater Treatment Plant (WWTP)

The WWTP has a anaerobic digester that produces methane. Currently a portion of the waste methane is used in the process to operate a heater and the used portion of methane is flamed off. We have worked on developing a strategy to increase methane production and utilized all the methane produced. We have looked at our system configuration to try to maximize the production, assessed the type of gas we are producing and what potential feed stocks we have available to us. Some of the feed stocks we have reviewed are algae, Nestle meat scraps, Tyson oil/grease, and Valero process distillate. The most cost effective option for us currently is to maximize our current production, which we plan to work toward over the next year.

Biomass (wood, prairie grasses, other)

The City provides leaf and brush pick up to its residents. It also has a compost site for its residents to bring leaves, grass clippings, brush and garden waste. The use of this type of biomass has been reviewed for use in methane production. More research needs to be completed to see how viable such a process could be and all the associated costs. With the looming, Emerald Ash Borer Disease, the City will be developing strategies for utilizing the wood that will become available. We are currently considering wood heat however we currently have ordinances that prohibit outside wood burning. The digester may ultimately be a viable option in the future. This may also push forward the City's usable of compressed methane for vehicle/equipment fuels.

Hydro

The City has a small dam, but there is very little head so utilizing this dam for hydroelectric power would be very costly for the amount of power it could produce. In the future there may be more cost effective options for harnessing hydroelectric power that would work for the City.

Geothermal

The City will continue its efforts related to geothermal. Geothermal will be considered for all future facilities. The City will continue to consider the development of a downtown geothermal district. Based on area reports, the soils in the Jefferson area have a very high conductivity, which is critical for geothermal projects.

Existing Unknowns – Necessary Information for Future

There are many unknowns at this time. Due to these unknowns our plan needs to be a living and breathing document where changes can be made continually and the City must stay vigilant seeking new opportunities. The main existing unknowns are as follows:

- Renewable Energy Technologies (Current and Future Technologies)
- Funding (Local Funding and Other Funding)
 - Funding for Projects and Feasibility Studies
 - Future Incentives – Grant, Focus on Energy, WPPI Energy
- Acceptable Returns on Investments
- Long Term Political and Public Support
- Energy Partnerships
- Price of Traditional Energy Resources

Renewable Energy Technologies

Given the information currently available there is no way to know what advancements will be made in the renewable energy field. Renewable energy is a popular topic and there is much interest as well as monies being put into renewable energy research. This makes predicting the future of renewable energy even more difficult but as long as the economic climate stays as it currently is, there will likely be substantial advancements in this technology. Most technologies available do not have a reasonable return on investment. We are hopeful that will change with continued interest and monies for research, ultimately renewable technology will become more affordable. The rapid development of new technologies also adds a level of apprehension for the City to invest in technology that may be unproven. The City will continue to monitor the renewable technology world, with the intent of finding affordable and reliable renewables.

Funding

Funding for Projects and Feasibility Studies

Municipal budgets are being more limited due to the overall economic crisis. The City has been very conservative in its spending so not in direct financial distress but anticipates that there will be significant changes in the upcoming budget years as shared revenue is anticipated to be cut, levy limits continue, and reduced income due to less fees for such things as building inspections. It is unknown if the City will be able to make any substantial investments into energy independence long term so that projects can be implemented. Also, with the poor economy there is additional public pressure not to do projects even if they may be economically sound.

Future Incentives – Grant, Focus on Energy, WPPI Energy

Outside funding sources such as grants, Focus on Energy and WPPI Energy incentives will likely be needed more than ever as the City will need to work with shrinking budgets. The City has been very fortunate in the recent past, as a recipient of funds for the Wisconsin Energy Independent Communities 25 x 25 Plan Grant and received \$145,700 in Energy Efficiency Conservation Block Grant (EECBG) funds in 2010 for the HVAC retrofit for our City Hall/Library Facility. These funds provided a significant source of revenue for planning as well as for one of our projects identified in our 25 x 25 Energy Independence Plan.

We anticipate that unless there is an economic shift funding incentives will become harder to obtain. Economy challenges and budgetary constraints have put an extreme emphasis on the need to make sound financial decisions.

Acceptable Returns on Investments

Our approach to paybacks for investments was conservative, however, the true acceptable return on investment (ROI) will not be known until the project is put forth for review and approval. We selected projects with a savings to investment ratio (SIR) of greater than 1.00 based on the Energy Center of Wisconsin energy tool unless the City has already shown commitment for a specific project. Given the value of money and the anticipated timing on implementing the project, any project with a SIR greater than 1.00, pays back in a reasonable time period. We also reviewed a simple payback period for comparison purposes. This has been an acceptable approach for planning but until we are in a position to fund the project it is unknown if the proposed project will have an acceptable return on investment.

Long Term Political and Public Support

The City of Jefferson Common Council has contributed significant support to promote energy independence. They recognize the value in researching and pursuing energy independence, energy conservation, energy efficiency, and renewable energy opportunities. We generally have public support as well. But in both cases there is no way to know if this support will continue. With increasing budget constraints it will be difficult to support the funding of any projects in the future. Also, if media coverage of subjects such as sustainability and energy is discontinued, we anticipate the political and public support will change as well. It is important that public awareness of the many energy challenges continues and that evidence of success in regards to the development of renewable energy is publicized. The price of traditional energy resources will also influence political and public support. Continued support from all is necessary for the City to achieve 25x25 goals.

Energy Partnerships

The potential for success in achieving the goals and objectives of the 25 x 25 Energy Independence Plan increase based on the ability to develop sound partnerships. We continue to engage with the County, other municipalities, and other Energy Independence Communities through direct contact and through our Energy Independence Education Series. We need to explore public/private partnerships with research & development interests to implement and evaluate new energy technologies. Relationships with educational and research institutions need to be developed and pursued. Intergovernmental partnerships, not only with funding sources such as the state and federal government but also with local government at the municipal and school district level must be utilized.

Price of Traditional Energy Resources

An issue that is not explored in all our planning is the anticipated price of traditional energy resources. As these prices are expected to continue to climb, it is anticipated that renewable technologies will become more affordable. Relatively inexpensive traditional energy resources make most renewable technologies cost-ineffective. Pricing of fuels (gasoline and diesel) have fluctuated dramatically over the last 3 years. Due to such fluctuations, major expenditures for alternative fuels may be difficult to justify even when fuel prices are high. The economic uncertainty is impacting pricing at all levels.

Action Steps – Immediate & Long - Term

The City identified immediate and long-term actions. The timing of these actions is still tied to many of the unknowns discussed in the previous section. All of our proposed projects are intended to be implemented in the relative short term, with the exception of the purchase of renewable energy blocks. We only plan to make these purchases when it is advantageous to the City or as a last resort to achieve “25 by 25”. With the two proposed renewable energy projects we are able to get to fifty-three (53) percent of our goal.

Table 3. Action Steps

Actions	Responsibility	Schedule
<i>Energy Renewables</i>		
Aquatic Center – Solar Hot Water	Facilities/Parks	2011-2012
Wastewater Treatment Plant - Anaerobic Digester -Methane Utilization – Implement Plan for Electric Generation by Maximizing Current System Load	Facilities/WWTP	2011-2012
<i>Policies/Procedures - Energy Policy/Purchasing Policy/Behavior Modification</i>		
Purchasing Policy	Energy Independence Team/Committee	2011
Individual and Department Energy Policies	Energy Independence Team/Committee	2011
Vehicle Operation and Care Policy	Energy Independence Team/Committee	2011
<i>Education/Outreach</i>		
Energy Independence Initiative Series	Energy Independence Committee	2011 - ?
Staff Trainings	Energy Independence Team	2011 - ?
- Energy Policy Trainings	Energy Independence Team	2011 - ?
- Personal Responsibilities for Energy Usage Trainings	Energy Independence Team	2011 - ?
- Energy Efficiency Driver Training	Energy Independence Team	2011 - ?
- Department Competition for Energy Efficiency (Energy Challenges)	Energy Independence Team	2011 - ?
<i>Energy Efficiency and Conservation - LIGHTING</i>		
EMS/Parks/Cold Storage	Facilities/EMS & Parks	2011
Fire Station	Facilities/Fire Department	2011
City Hall/Library/Meeting Rooms/Museum (Library)	Facilities/Library	2011
Senior Center	Facilities/Parks	2011
Wastewater Treatment Plant (Maintenance Bay Lighting Building 78)	Facilities/WWTP	2013
Wastewater Treatment Plant (Lab Lighting Building 75)	Facilities/WWTP	2014
Street Lights (Induction Retrofit)	Facilities/Street/Public Works & Jefferson Utilities	2015
<i>Energy Efficiency and Conservation - HVAC UPGRADES</i>		
EMS/Parks/Cold Storage (Tune Up)	Facilities/EMS & Parks	2012
Fire Station (System Replacement)	Facilities/Fire Department	2011
City Hall/Library/Meeting Rooms/Museum (System Replacement)	Facilities/Administration	2011
Jefferson Utilities/Police Department (System Modifications)	Facilities/Utility Board/Police Department/Jefferson Utilities	2013
Wastewater Treatment Plant - Building 75 (System Replacement)	Facilities/WWTP	2014
<i>Energy Efficiency and Conservation - HVAC Modifications</i>		
EMS/Parks/Cold Storage - Setback Thermostat Installation	EMS & Parks	2011
Public Works - Temperature Reductions	Public Works	2011
Fire Station - Temperature Reductions	Fire Department	2011
City Hall/Library/Meeting Rooms/Museum - Temperature Reductions	Administration	2011
Jefferson Utilities/Police Department - Temperature Reductions	Jefferson Utilities/Police Department	2011
Wastewater Treatment Plant - Temperature Reductions	WWTP	2011

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Table 3. Action Steps (Continued)

Actions	Responsibility	Schedule
<i>Energy Efficiency and Conservation - Domestic Hot Water - Energy Efficiency Upgrades</i>		
Fire Station - On Demand Water Heater Installation Replacement	Facilities/Fire Department	2015
Jefferson Utilities/Police Department - On Demand Water Heater Installation Replacement	Facilities/Utility Board/Jefferson Utilities/Police Department	2015
<i>Energy Efficiency and Conservation - Domestic Hot Water - Water Temperature Reduction</i>		
Fire Station	Fire Department	2011
City Hall/Library/Meeting Rooms/Museum	Administration	2011
Senior Center	Parks	2011
Public Works Facility	Public Works	2011
<i>Energy Efficiency and Conservation - Remove Energy Usage</i>		
Senior Center - Remove Soda Machine	Parks	2011
Warming House - Remove Facility	Parks	2011
<i>Energy Efficiency and Conservation - General Conservation</i>		
Aquatic Center - Chemical Pool Cover	Parks	2012
Public Works Facility - Fans to Push Hot Air Down to Floor Level - Mechanics Bays	Facilities/Public Works	2013
Wastewater Treatment Plant - Plant Upgrades		
Aeration Blower #4 Motor	Facilities/WWTP	2012
Channel Blower #2 Motor	Facilities/WWTP	2012
Primary Clarifier #2 Motor	Facilities/WWTP	2012
DAF Recycle pump #1 replacement	Facilities/WWTP	2014
DAF Recycle pump #2 replacement	Facilities/WWTP	2014
Clarifier Drive #1 Motor	Facilities/WWTP	2015
Primary Clarifier Drive #1 Motor	Facilities/WWTP	2015
<i>Fleet/Equipment - Efficiency</i>		
16 Vehicles - Hybrid Fuel Cells (Hydrogen On-Demand)	Public Works	2015

Energy Independence Initiative Team Members

Jill M. Weiss, P.E., City Engineer/Director of Public Works - Energy Independence Initiative Team Leader
Cyndi Keller, Director of Parks, Recreation and Forestry - Energy Independence Initiative Team
Michael Kelly, Wastewater Superintendent - Energy Independence Initiative Team
Bruce Folbrecht, Jefferson Utilities Manager - Energy Independence Initiative Team
Greg Hoffmann, Jefferson Utilities Manager/WPPI Energy Services Representative - Energy Independence Initiative Team

Energy Independence Initiative Committee Members

Dale Oppermann – Mayor - Energy Independence Initiative Committee
Dave Carnes – Council Person - Energy Independence Initiative Committee
Steve Adams – Utility Commission Representative - Energy Independence Initiative Committee
Dev Traver – Business Representative - Energy Independence Initiative Committee
Kirk Lawrence – Business Representative - Energy Independence Initiative Committee
Jerry Tinberg – Community Representative - Energy Independence Initiative Committee Chairman
Boyd Janney – Community Representative - Energy Independence Initiative Committee
Tim Freitag – City Administrator - Energy Independence Initiative Committee (Non-voting Member)

Appendix A: Baseline Energy Consumption Data – Spreadsheets

'Growth Rate' Tab

In order to determine the Jefferson's 2025 municipal energy use baseline, we need to estimate the rate at which we can expect municipal energy usage to grow.

This value will differ for every community.

Possible values are listed below. To run this baseline tool, please select one of those values, or determine your own, and enter it (as a percent) into the green box.

0.2%

- 0.3% Jefferson's estimated population growth rate
- 0.2% Population growth rate discounted by percent of energy attributable to buildings
- 1.4% Annual growth rate of Jefferson's municipal energy usage, 2007 to 2009

(As a way to perform a reality check on your estimate, an annual growth rate of 4.4% would mean doubling your energy consumption by 2025.)

Once you have entered a growth rate, please proceed to the next tab.

'Baseline + Goals' Tab

Your energy usage baseline is **26,890** million (MM) Btus.*

That baseline is comprised of 3,751,898 kWh,
94,290 therms,
16,713 gallons of unleaded,
and 17,451 gallons of diesel.

By assuming an annual growth rate of **0.20%**,
in 2025 your energy use baseline will be **27,763** MMBtu.

Your 25% renewable energy goal
for 2025 is therefore **6,941** MMBtu,
or 26% of your baseline consumption.

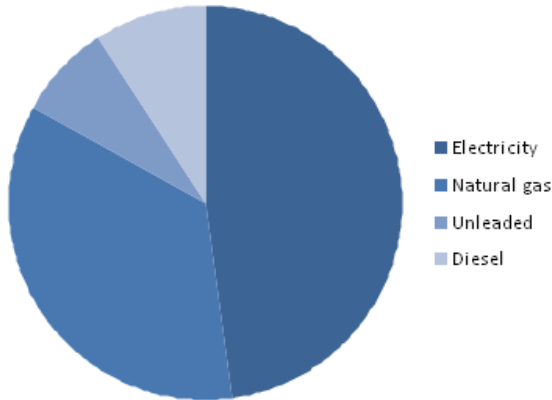
This translates into 2,034,235 kWh or
69,408 therms or
55,974 gallons gas or
49,934 gallons diesel, or
some combination
of those fuels.

'Energy Analysis 1' Tab

Jefferson Energy Baseline: Additional Info

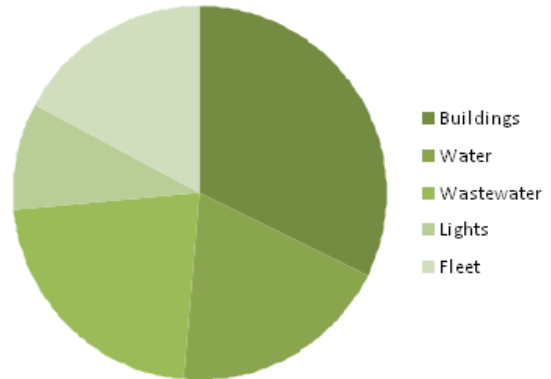
Total Consumption by Energy Type

Energy type	Percent of total Btus
Electricity	48%
Natural gas	35%
Unleaded	8%
Diesel	9%



Total Consumption by End Use

Energy end use	Percent of total Btus
Buildings	32%
Water	19%
Wastewater	22%
Lights	9%
Fleet	17%



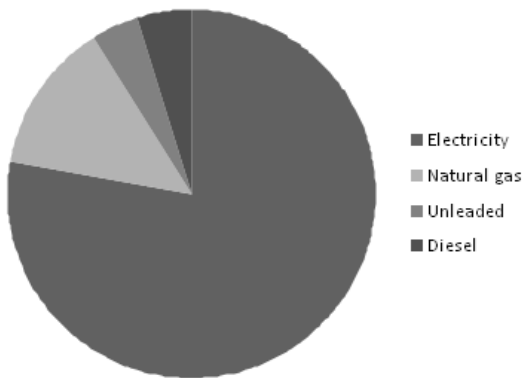
'Energy Analysis 2' Tab

Jefferson Energy Baseline: Additional Info

Total CO2 Emissions by Energy Type

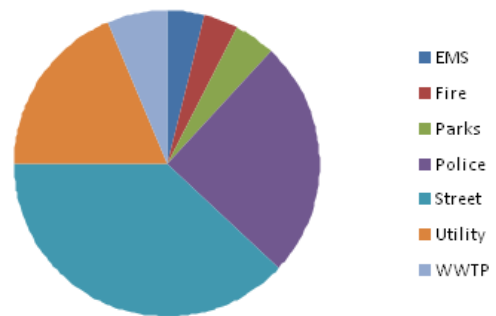
Energy type	Percent of total CO2
Electricity	78%
Natural gas	14%
Unleaded	4%
Diesel	5%

Total: 8 million lbs CO2



Fleet breakdown by department

Department	Percent of total Btus
EMS	4%
Fire	4%
Parks	4%
Police	25%
Street	38%
Utility	19%
WWTP	6%



'Assumptions' Tab

Assumptions						
<i>Baseline Energy Usage, Rates and Generation</i>						
	Baseline usage		2009 rates		Baseline existing generation	
electricity	3,751,898 kWh		\$ 0.07 /kWh		kWh	
natural gas	94,290 therms		\$ 1.00 /therm		therms	
unleaded gasoline	16,713 gallons		\$ 2.33 /gal		gallons	
diesel fuel	17,451 gallons		\$ 2.42 /gal		gallons	
gallons propane		gallons		/gal		gallons
<i>Factors</i>						
Estimated annual growth rate for municipal energy	0.2%					
<i>Purchase renewable electricity from utility</i>						
Block size	300 kWh					
Incremental cost per block	\$2.00					
Year of last billing data	2009					
First project year	2011					
Final project year	2025					

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'Measures' Tab

Measure Name	Measure Description	Total Installed Cost	Financial Incentives	Measure Life	Measure Installed Date	Annual Energy Saved					Annual Energy Generated					Non-Energy Cost 1		
						kWh	therms	gallons unleaded	gallons diesel	gallons propane	kWh	therms	gallons unleaded	gallons diesel	gallons propane	Description	Cost (\$)	How often (years)
EMS/Parks/Cold Storage - Lighting - Lighting Retrofit	WPPI Purchased Lights-Labor Nominal (Energy Saving Estimated off of 2 months bills 2010)	\$100		25	2011	3,000												
EMS/Parks/Cold Storage - HVAC - Furnace Tune Up	Focus on Energy Recommendations	\$200		1	2012		99											
EMS/Parks/Cold Storage - HVAC - Setback Thermostat Installation	Focus on Energy Recommendations - Assuming Setbacks of 2 degrees for 6% savings	\$50		25	2012	390	140											
EMS/Parks/Cold Storage - HVAC - Window Treatment - Blinds	Focus on Energy Recommendations - Assuming Walmart Energy Savings Blinds & energy savings of .1%	\$500		25	2011	7	2											
EMS/Parks/Cold Storage - Renewables - Solar Electric Power	Focus on Energy Recommendations	\$600,000		25	2015						98,340							
Fire Station - HVAC - Furnace Retrofit-High Efficiency	Lake Country Heating and Cooling (Actual Bills) (Energy Saving Estimated off of 2 months bills 2010)	\$12,668		25	2011	1,500	180											
Fire Station - Lighting - Lighting Retrofit	WPPI Purchased Lights(Energy Saving Estimated off of 2 months bills 2010)	\$500		25	2011	1,200												
Fire Station - Domestic Hot Water - Water Heater - Upgrade High Efficient	Focus on Energy Recommendations - Assuming On-Demand - 20% savings on gas & electric for HW based on FOE facility energy use break down	\$2,000		25	2015	30	380											

'Measures' Tab (Continued)

Measure Name	Measure Description	Total Installed Cost	Financial Incentives	Measure Life	Measure Installed Date	Annual Energy Saved					Annual Energy Generated					Non-Energy Cost 1		
						kWh	therms	gallons unleaded	gallons diesel	gallons propane	kWh	therms	gallons unleaded	gallons diesel	gallons propane	Description	Cost (\$)	How often (years)
Fire Station - Domestic Hot Water - Water Temperature Reduction on Water Heater	Focus on Energy Recommendations	\$1		100	2011		2											
Fire Station - Renewables - Solar Electric Power	Focus on Energy Recommendations	\$250,000		25	2015						43,643							
Aquatic Center - Conservation - Chemical Pool Cover	Standard Residential Covers (DOE says 1 gallon of 80 degree water equates to 8,000 Btus removed from the pool) All Btus converted to therms - 1 bottle per week	\$236		1	2012		1,496											
Aquatic Center - Conservation - Pool Cover	Standard Residential Covers (high end) average \$0.50/sf - Assumed custom cover with roll up ability to be \$1.00/sf - Assumed 0.5" evaporation each week for 12 weeks (DOE says 1 gallon of 80 degree water equates to 8,000 Btus removed from the pool) All Bt	\$5,000		5	2012		1,496								Staff Time	\$1,428	1	
Aquatic Center - Lighting - Building Lighting Retrofit	WPPI Recommendation	\$5,250		25	2011	600												
Aquatic Center - Lighting - Facility Lighting Retrofit	WPPI Recommendation	\$6,000		25	2011	1,500												
Aquatic Center - Renewable - Solar Hot Water	Focus on Energy Recommendations	\$107,000	\$31,500	25	2011		3,828					7,656			gas heater	\$17,000	10	
Aquatic Center - Renewables - Solar Electric Power	Focus on Energy Recommendations	\$45,000		25	2015						5,000							

'Measures' Tab (Continued)

Measure Name	Measure Description	Total Installed Cost	Financial Incentives	Measure Life	Measure Installed Date	Annual Energy Saved					Annual Energy Generated					Non-Energy Cost 1		
						kWh	therms	gallons unleaded	gallons diesel	gallons propane	kWh	therms	gallons unleaded	gallons diesel	gallons propane	Description	Cost (\$)	How often (years)
City Hall/Library/Mtg Rooms/Museum - Lighting - Library Lighting Retrofit	WPPI Recommendation	\$500		25	2011	13,400												
City Hall/Library/Mtg Rooms/Museum - Domestic Hot Water - Pipe Insulation on Domestic Hot Water Lines	Focus on Energy Recommendations	\$500		25	2011		8											
City Hall/Library/Mtg Rooms/Museum - Domestic Hot Water - Water Temperature Reduction on Water Heater	Focus on Energy Recommendations	\$1		100	2011		2											
City Hall/Library/Mtg Rooms/Museum - HVAC - Boiler Plumbing - Insulation	Focus on Energy Recommendations	\$500		25	2011		8											
City Hall/Library/Mtg Rooms/Museum - HVAC - Boiler Replacement & Controls Upgrade - High Performance	Focus on Energy Recommendations (Based on Donn Trieloff Report and FOE break down of Energy Use 35% reduction in energy use for boilers)	\$96,000	\$62,165	25	2011	14,400	2,500											
City Hall/Library/Mtg Rooms/Museum - HVAC - Air Condensers Replacement/Air Handlers (All except meeting rooms and council chambers) - High Efficiency	(Based on Donn Trieloff Report)	\$129,000	\$83,535	25	2011	18,600												
City Hall/Library/Mtg Rooms/Museum - HVAC - Preventative Maintenance Program	Focus on Energy Recommendations	\$300		25	2011	1	10											
City Hall/Library/Mtg Rooms/Museum - Renewables - Solar Hot Water	Focus on Energy Recommendations - (Determined to not be worthwhile by evaluators)																	

'Measures' Tab (Continued)

Measure Name	Measure Description	Total Installed Cost	Financial Incentives	Measure Life	Measure Installed Date	Annual Energy Saved					Annual Energy Generated					Non-Energy Cost 1		
						kWh	therms	gallons unleaded	gallons diesel	gallons propane	kWh	therms	gallons unleaded	gallons diesel	gallons propane	Description	Cost (\$)	How often (years)
City Hall/Library/Mtg Rooms/Museum - Renewables - Solar Electric Power	Focus on Energy Recommendations	\$427,000	\$32,850	25	2015						73,842							
Public Works Facility - Domestic Hot Water - Tank Insulation on Water Heater	Focus on Energy Recommendations	\$200		10	2012		10											
Public Works Facility - Domestic Hot Water -Water Temperature Reduction on Water Heater	Focus on Energy Recommendations																	
Public Works Facility - HVAC - Fans to Push Hot Air Down to Floor Level - Mechanics Bays	Big Ass Fans Quote - Fans used at Wisconsin Dells Kalahari to reduce energy usage - 2' clearance all sides- 14' diameter- 1 year warranty - Capable of reducing energy usage by 30% - assumed 10% reduction in therms and 1% reduction in electrical	\$2,750		25	2013	727	1,150											
Public Works Facility - HVAC - Furnace Tune-up	Focus on Energy Recommendations (Assuming .1% energy reduction)	\$350		25	2012	7	1								Annual Expense	\$350	1	
Public Works Facility - HVAC - Overhead Door Seals - Replacement	Focus on Energy Recommendations (Assuming 1% energy reduction)	\$20,000		25	2013	70	10											
Public Works Facility - Renewable - Solar Electric Power	Focus on Energy Recommendations	\$1,070,000		25	2015						167,659							
Senior Center - Lighting - Lighting Retrofit	WPPI Recommendation (\$2-\$4/lamp)	\$104		10	2011	2,000												

'Measures' Tab (Continued)

Measure Name	Measure Description	Total Installed Cost	Financial Incentives	Measure Life	Measure Installed Date	Annual Energy Saved					Annual Energy Generated					Non-Energy Cost 1		
						kWh	therms	gallons unleaded	gallons diesel	gallons propane	kWh	therms	gallons unleaded	gallons diesel	gallons propane	Description	Cost (\$)	How often (years)
Senior Center - Domestic Hot Water - Water Temperature Reduction on Water Heater	Focus on Energy Recommendations	\$1		25	2011		2											
Senior Center - HVAC - Furnace Tune-up	Focus on Energy Recommendations	\$350		25	2011		48									Annual Expense	350	1
Senior Center - HVAC - Window Treatment - Blinds	Focus on Energy Recommendations	\$5,000		25	2012	4	1											
Senior Center - Remove Soda Machine		\$20		100	2011	630												
Senior Center - Renewables - Solar Electric Power	Focus on Energy Recommendations	\$175,000		25	2015						28,685							
Jefferson Utilities/Police Department - Domestic Hot Water - On Demand Water Heater Installation	Focus on Energy Recommendations - Assumed 20% savings on gas & electric for HW based on FOE facility energy use break down	\$2,000		25	2015	100	925											
Jefferson Utilities/Police Department - HVAC -High Efficiency Retrofits/Internal Heating of Air with CO Sensor	Partial Focus on Energy Recommendation (Lump System Issues together - System too complicated to separate at this time) Assumed current system salvageable and complete overhaul - Assume 40% reduction in energy usage - based on modified FOE spreadsheet	\$400,000		25	2013	104,432	9,862											

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Jefferson Utilities/Police Department - Renewables - HVAC-Geothermal	Assuming System not salvageable - Assuming 60% reduction- based on modified FOE spreadsheet	\$900,000		25	2013	156,647	14,793											
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'Measures' Tab (Continued)

Measure Name	Measure Description	Total Installed Cost	Financial Incentives	Measure Life	Measure Installed Date	Annual Energy Saved					Annual Energy Generated					Non-Energy Cost 1		
						kWh	therms	gallons unleaded	gallons diesel	gallons propane	kWh	therms	gallons unleaded	gallons diesel	gallons propane	Description	Cost (\$)	How often (years)
Jefferson Utilities/Police Department - Renewables - Solar Hot Water	Focus on Energy Recommendations - Determined to not be worth it by Solar Auditor					-	-											
Jefferson Utilities/Police Department - Renewables - Solar Electric Power	Focus on Energy Recommendations	\$1,100,000		25	2015						195,574							
Wastewater Treatment Plant - HVAC - Exhaust Air Heat Recovery System	Focus on Energy Recommendations																	
Wastewater Treatment Plant - HVAC - Furnace Tune-up	Focus on Energy Recommendations																	
Wastewater Treatment Plant - HVAC - Infrared Heating Units - Replace Existing System	Focus on Energy Recommendations																	
Wastewater Treatment Plant - HVAC - Linkage less Boiler Control	Focus on Energy Recommendations																	
Wastewater Treatment Plant - Plant Upgrades - Aeration Blower #4 Motor	WPPI Recommendation - Motor downsize and efficiency upgrade	\$1,300		20	2012	44,050												
Wastewater Treatment Plant - Channel Blower #2 Motor	WPPI Recommendation - Motor downsize and efficiency upgrade	\$350		20	2012	6,824												

'Measures' Tab (Continued)

Measure Name	Measure Description	Total Installed Cost	Financial Incentives	Measure Life	Measure Installed Date	Annual Energy Saved					Annual Energy Generated					Non-Energy Cost 1		
						kWh	therms	gallons unleaded	gallons diesel	gallons propane	kWh	therms	gallons unleaded	gallons diesel	gallons propane	Description	Cost (\$)	How often (years)
Wastewater Treatment Plant - Plant Upgrades - Primary Clarifier #2 Motor	WPPI Recommendation - Motor downsize and efficiency upgrade	\$250		20	2012	1,264												
Wastewater Treatment Plant - Plant Upgrades - Non-potable water pump #1 motor	WPPI Recommendation - Motor downsize and efficiency upgrade	\$475		20	2013	387												
Wastewater Treatment Plant - Plant Upgrades - Non-potable water pump #2 motor	WPPI Recommendation - Motor downsize and efficiency upgrade	\$475		20	2013	387												
Wastewater Treatment Plant - Plant Upgrades - Non-potable water pump #1 motor	WPPI Recommendation - Motor downsize and efficiency upgrade	\$475		20	2013	387												
Wastewater Treatment Plant - Plant Upgrades - Non-potable water pump #2 motor	WPPI Recommendation - Motor downsize and efficiency upgrade	\$475		20	2013	387												
Wastewater Treatment Plant - Plant Upgrades - DAF Recycle pump #1 replacement	WPPI Recommendation - Motor efficiency upgrade	\$900		20	2014	6,145												
Wastewater Treatment Plant - Plant Upgrades - DAF Recycle pump #2 replacement	WPPI Recommendation - Motor downsize and efficiency upgrade	\$900		20	2014	6,145												
Wastewater Treatment Plant - Primary Clarifier Drive #1 Motor	WPPI Recommendation - Motor efficiency upgrade	\$300		20	2015	1,742												

'Measures' Tab (Continued)

Measure Name	Measure Description	Total Installed Cost	Financial Incentives	Measure Life	Measure Installed Date	Annual Energy Saved					Annual Energy Generated					Non-Energy Cost 1		
						kWh	therms	gallons unleaded	gallons diesel	gallons propane	kWh	therms	gallons unleaded	gallons diesel	gallons propane	Description	Cost (\$)	How often (years)
Wastewater Treatment Plant - Plant Upgrades - Primary Clarifier Drive #1 Motor	WPPI Recommendation - Motor efficiency upgrade	\$300		20	2015	1,743												
Wastewater Treatment Plant - HVAC - Building 75	WPPI Recommendation - Boiler Replacement	\$8,000		25	2014		2,424											
Wastewater Treatment Plant - HVAC - Building 10	WPPI Recommendation - Boiler Replacement	\$5,000		25	2016		431											
Wastewater Treatment Plant - Lighting - Maintenance Bay Lighting Building 78	WPPI Recommendation - Lighting Fixture Replacement	\$1,212		20	2013	3,200												
Wastewater Treatment Plant - Lighting - Lab Lighting Building 75	WPPI Recommendation - Lighting Fixture Replacement	\$750		20	2014	1,200												
Wastewater Treatment Plant - Lighting -Light Fixtures Building 68	WPPI Recommendation - Lighting Fixture Replacement	\$2,144		20	2015	1,600												
Wastewater Treatment Plant - Lighting -Light Fixtures Building 75	WPPI Recommendation - Lighting Fixture Replacement	\$560		20	2016	900												
Wastewater Treatment Plant - HVAC - Heat Exchanger Building 68	WPPI Recommendation - Air to Air Heat Exchanger	\$15,000		20	2016	1,956												

'Measures' Tab (Continued)

Measure Name	Measure Description	Total Installed Cost	Financial Incentives	Measure Life	Measure Installed Date	Annual Energy Saved					Annual Energy Generated					Non-Energy Cost 1		
						kWh	therms	gallons unleaded	gallons diesel	gallons propane	kWh	therms	gallons unleaded	gallons diesel	gallons propane	Description	Cost (\$)	How often (years)
Wastewater Treatment Plant - HVAC - Heat Exchanger Building 12	WPPI Recommendation - Air to Air Heat Exchanger	\$15,000		20	2016	1,956												
Wastewater Treatment Plant - Renewables - Anaerobic Digester - Methane Utilization of Current Loading	187,118 kWh & 7,667 Therms	\$200,000		20	2012						299,361							
Wastewater Treatment Plant - Renewables - Anaerobic Digester - Methane Utilization of Maximum Loading	Conservative - not using three tanks (may be possible to create some more) Assumed waste from Tyson grease and Valero distill ant-kWh shown same as 352,238 kWh and 14,434 therms	\$400,000		20	2017						563,551							
Wastewater Treatment Plant - Building #10, 12, 68, 75, 78, 80 - Renewables - Solar Electric Power	Focus on Energy Recommendations	\$551,000		25	2015						85,605							
Museum - Demo - Eliminate Consumption		\$2,903		100	2011	1,300	535											
Street Lights - Lighting - LED Retrofit		\$602,000		25	2015	390,769												
Street Lights - Lighting - Induction Retrofit		\$344,000		25	2015	390,769												

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Street Lights - Lighting - Fluorescent Retrofit		\$301,000		25	2015	390,769												
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'Measures' Tab (Continued)

Measure Name	Measure Description	Total Installed Cost	Financial Incentives	Measure Life	Measure Installed Date	Annual Energy Saved					Annual Energy Generated					Non-Energy Cost 1		
						kWh	therms	gallons unleaded	gallons diesel	gallons propane	kWh	therms	gallons unleaded	gallons diesel	gallons propane	Description	Cost (\$)	How often (years)
Dam - Renewables - Hydroelectric	Found to be generally cost prohibitive. There may be low cost ways to produce some power but still the investment out weighs the costs. More feasibility study work would be needed to truly assess costs and potential energy production																	
Compost Site - Renewables - Digester-BioGas Technology (Methane Production from Yard Waste/Woody Vegetation/Leaf Collection)																		
Public - Renewables - Solar	Determined to be more costly than roof installations per solar auditor - not pursued at this time																	
Public - Renewables - Wind	Fair Park Audit - information Endurance Wind Power - must be sited on west side of City - No land acquisition costs included	\$350,000	\$100,000	25	2015						120,570					Operation and Maintenance	1750	1
Public - Renewables - Wind	Fair Park Audit information - Northern Power Systems - must be sited on west side of City - No land acquisition costs included	\$550,000	\$100,000	25	2015						139,057					Operation and Maintenance	2750	1

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Public - Renewables - Wind	Fair Park Audit information -Global Wind Power - must be sited on west side of City	\$750,000		25	2015												Operation and Maintenance	3750	1
Public - Renewables - Wind	Fair Park Audit information - RRB Energy - must be sited on west side of City - No land acquisition costs included	\$1,800,000		25	2015												Operation and Maintenance	9000	1
Public - Renewables - Wind	Fair Park Audit information - Power wind - must be sited on west side of City - No land acquisition costs included	\$2,700,000		25	2015												Operation and Maintenance	27000	1

Measures' Tab (Continued)

Measure Name	Measure Description	Total Installed Cost	Financial Incentives	Measure Life	Measure Installed Date	Annual Energy Saved					Annual Energy Generated					Non-Energy Cost 1			
						kWh	therms	gallons unleaded	gallons diesel	gallons propane	kWh	therms	gallons unleaded	gallons diesel	gallons propane	Description	Cost (\$)	How often (years)	
Fleet - Renewables - Compressed Methane	More Feasibility work needed - Initial research showing investment/setup costs outweighs savings both in fuel and costs																		
Fleet - Renewables - Ethanol	More Feasibility work needed - Initial research showing investment/setup costs outweighs savings both in fuel and costs																		
Fleet - Renewables - Biodiesel	More Feasibility work needed - Initial research showing investment/setup costs outweighs savings both in fuel and costs																		
Fleet - Efficiency - LP	More Feasibility work needed - Initial research showing investment/setup costs outweighs savings both in fuel and costs																		
Fleet - Efficiency - Natural Gas	More Feasibility work needed - Initial research showing investment/setup costs outweighs savings both in fuel and costs																		
Fleet - Efficiency - Electric	More Feasibility work needed - Each future purchase will need to be evaluated to see if electric is the right type of vehicle for the City																		
Fleet - Efficiency - Hybrid Fuel Cells (Hydrogen On-Demand)	Potential to achieve double fuel mileage - Minimum Savings for vehicle 320 gallons annually	\$40,000		5	2015			2,900	4,650								Operation and Maintenance	8000	1

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Fleet - Efficiency - Hybrid	More Feasibility work needed - Each future purchase will need to be evaluated to see if a hybrid is the right type of vehicle for the City																	
Policy - Energy Policy/Purchasing Policy - Behavior modification	Assuming that changes in policies and behaviors can save a minimum of 1% of energy	\$1,000		1	2012	37,519	943		167	174							On-going training and efforts	1

'Alt Fuels' Tab

2025 fleet projection

Reference table

Your community's fuel use

Unleaded 17,256 gallons

Diesel 18,018 gallons

Ethanol 80,000 Btus/gallonR

Biodiesel 120,000 Btus/gallonR

CNG 38,000 Btus/gallonNG @ 3,000-3,600 psi

LNG 73,500 Btus/gallonNG @ 73,500 psi

LPG 84,000 Btus/gallonP @ 84,000 psi

Fleet conversion

Existing fleet type	Enter <i>either</i> ...		To be replaced or blended with ...		Unleaded gallons avoided w/ renewables	Diesel gallons avoided w/ renewables	Natural gas expended (therms)	Propane expended (nat gas)
	Gallons	Percentage	Alternate fuel	What amount (100% for replacement, 85% for E85, etc.)				
Unleaded		25%	Ethanol	85%	3,387			
					3,387	-	-	-

Original gallons	Original Btu content per gallon	New Btu content if liquid fuel replacement	Equivalent gallons (on Btu basis) of replacement	Portion of replacement fuel that is still fossil	Gallons of fossil avoided w/ liquid fuel alternative	Therms of natural gas needed	Gallons of propane needed
4314.021	124000	86600	6177.12	926.57	3387		
		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A

Measure	Measure	Total	Financial	Measure	Measure	Annual Energy Saved	Annual Energy Generated	Non-Energy Cost 1
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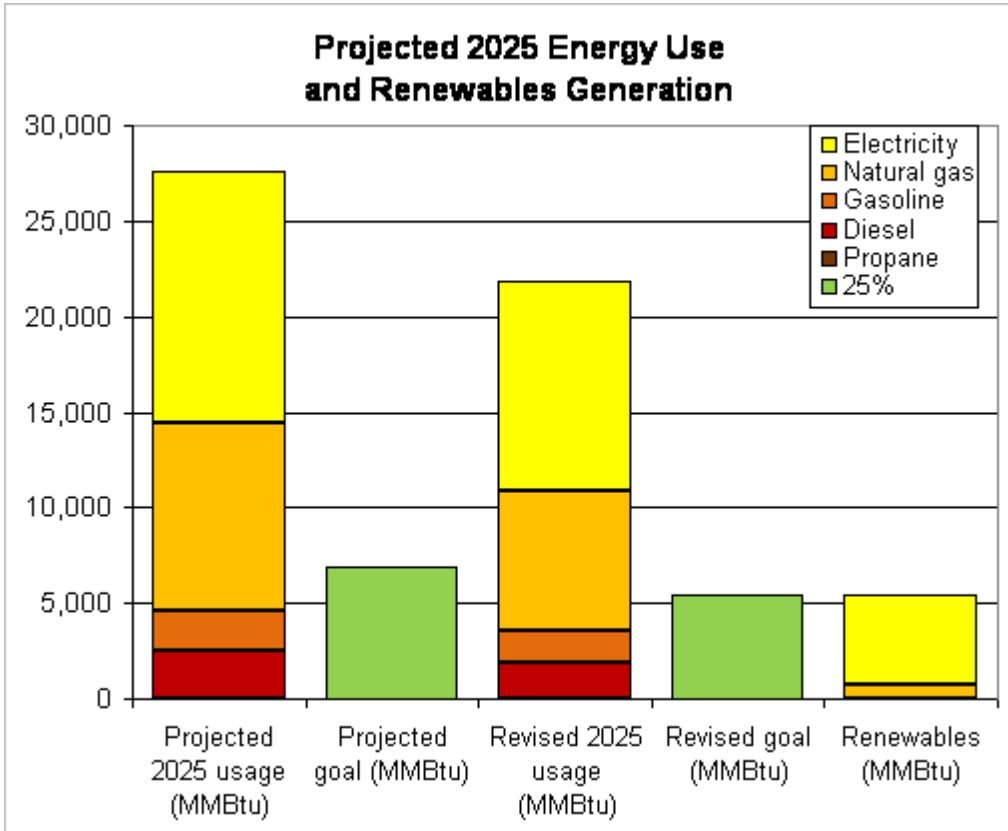
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Name	Description	Installed Cost	Incentives	Life	Installed Date	kWh	therms	gallons unleaded	gallons diesel	gallons propane	kWh	therms	gallons unleaded	gallons diesel	gallons propane	Description	Cost (\$)	How often (years)
Liquid fuel reduction/replacement	1 different fleet changes						-			-			3,387		-			

* Copy and paste cells A25:P25 onto one of the rows in the measure tab to use this as a measure. (Be sure to PASTE SPECIAL: VALUES ONLY.) You are responsible for cost, incentive, measure life, etc., information.

'Results' Tab

PORTFOLIO SUMMARY				
Installed cost before incentives	Incentive amounts	Present value cost with incentives	lbs CO ₂ avoided from fossil emissions	Percent of goal achieved (see below)
\$ 1,348,527.55	\$ 177,200.00	\$ 1,304,359.40	1,979,648	100%



Projected 2025 usage (MMBtu)	27,597
Revised 2025 usage (w/ efficiency) (MMBtu)	21,862
Revised 25% 2025 renewables goal (MMBtu)	5,465
Sum of renewable measures (MMBtu)	5,463
Percent of goal achieved	100%

Baseline lbs CO ₂ :	8,169,118
New lbs CO ₂ :	6,189,470
CO ₂ Reduction:	0

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'Results' Tab (Continued)

		MEASURES						
		Name	Savings-to-investment ratio	Savings/generation	Installed cost before incentives	Incentive amounts	Present value cost with incentives	lbs CO ₂ avoided from fossil emissions
10%	R	Wisconsin RPS	--	291361 kWh	--	--	--	492,982
2,800	R	Purchased renewable electricity	13.08	840000 kWh	\$ 5,600	--	\$ 64,232	1,421,280
On	E	EMS/Parks/Cold Storage - Lighting - Lighting Retrofit	22.72	3000 kWh	\$ 100	\$ -	\$ 100	17
On	E	EMS/Parks/Cold Storage - HVAC - Furnace Tune Up	1.10	99 therms	\$ 200	\$ -	\$ 1,083	116
On	E	EMS/Parks/Cold Storage - HVAC - Setback Thermostat Installation	40.38	140 therms	\$ 50	\$ -	\$ 49	166
Off	E	EMS/Parks/Cold Storage - HVAC - Window Treatment - Blinds	0.06	2 therms	\$ 500	\$ -	\$ 500	2
Off	R	EMS/Parks/Cold Storage - Renewables - Solar Electric Power	0.09	98340 kWh	\$ 600,000	\$ -	\$ 532,800	568
Off	E	Fire Station - HVAC - Furnace Retrofit-High Efficiency	0.28	180 therms	\$ 12,668	\$ -	\$ 12,668	219
On	E	Fire Station - Lighting - Lighting Retrofit	1.82	1200 kWh	\$ 500	\$ -	\$ 500	7
On	E	Fire Station - Domestic Hot Water - Water Heater - Upgrade High Efficient	1.92	380 therms	\$ 2,000	\$ -	\$ 1,776	445
On	E	Fire Station - Domestic Hot Water - Water Temperature Reduction on Water Heater	26.24	2 therms	\$ 1	\$ -	\$ 1	2
Off	R	Fire Station - Renewables - Solar Electric Power	0.10	43643 kWh	\$ 250,000	\$ -	\$ 222,000	252
On	E	Aquatic Center - Conservation - Chemical Pool Cover	14.12	1496 therms	\$ 236	\$ -	\$ 1,278	1,752
Off	E	Aquatic Center - Conservation - Pool Cover	0.66	1496 therms	\$ 5,000	\$ -	\$ 27,401	1,752
Off	E	Aquatic Center - Lighting - Building Lighting Retrofit	0.09	600 kWh	\$ 5,250	\$ -	\$ 5,250	3
Off	E	Aquatic Center - Lighting - Facility Lighting Retrofit	0.19	1500 kWh	\$ 6,000	\$ -	\$ 6,000	9
On	R	Aquatic Center - Renewable - Solar Hot Water	1.52	11484 therms	\$ 107,000	\$ 31,500	\$ 99,062	13,445
Off	R	Aquatic Center - Renewables - Solar Electric Power	0.06	5000 kWh	\$ 45,000	\$ -	\$ 39,960	29
On	E	City Hall/Library/Mtg Rooms/Museum - Lighting - Library Lighting Retrofit	20.30	13400 kWh	\$ 500	\$ -	\$ 500	77
Off	E	City Hall/Library/Mtg Rooms/Museum - Domestic Hot Water - Pipe Insulation on Domestic Hot Water Lines	0.21	8 therms	\$ 500	\$ -	\$ 500	9
On	E	City Hall/Library/Mtg Rooms/Museum - Domestic Hot Water - Water Temperature Reduction on Water Heater	26.24	2 therms	\$ 1	\$ -	\$ 1	2
Off	E	City Hall/Library/Mtg Rooms/Museum - HVAC - Boiler Plumbing - Insulation	0.21	8 therms	\$ 500	\$ -	\$ 500	9
On	E	City Hall/Library/Mtg Rooms/Museum - HVAC - Boiler Replacement & Controls Upgrade - High Performance	1.29	2500 therms	\$ 96,000	\$ 62,165	\$ 33,835	3,010
On	E	City Hall/Library/Mtg Rooms/Museum - HVAC - Air Condensers Replacement/Air Handlers (All except meeting rooms and council chambers) - High Efficiency	0.31	18600 kWh	\$ 129,000	\$ 83,535	\$ 45,465	107
On	E	City Hall/Library/Mtg Rooms/Museum - HVAC - Preventative Maintenance Program	0.44	10 therms	\$ 300	\$ -	\$ 300	12
Off								
Off	R	City Hall/Library/Mtg Rooms/Museum - Renewables - Solar Electric Power	0.11	73842 kWh	\$ 427,000	\$ 32,850	\$ 350,005	426
Off	E	Public Works Facility - Domestic Hot Water - Tank Insulation on Water Heater	0.36	10 therms	\$ 200	\$ -	\$ 339	12
Off								
On	E	Public Works Facility - HVAC - Fans to Push Hot Air Down to Floor Level - Mechanics Bays	5.06	1150 therms	\$ 2,750	\$ -	\$ 2,593	1,351
Off	E	Public Works Facility - HVAC - Furnace Tune-up	0.00	1 therms	\$ 350	\$ -	\$ 3,955	1
Off	E	Public Works Facility - HVAC - Overhead Door Seals - Replacement	0.01	10 therms	\$ 20,000	\$ -	\$ 18,860	12
Off	R	Public Works Facility - Renewable - Solar Electric Power	0.09	167659 kWh	\$ 1,070,000	\$ -	\$ 950,160	968
On	E	Senior Center - Lighting - Lighting Retrofit	8.35	2000 kWh	\$ 104	\$ -	\$ 181	12
On	E	Senior Center - Domestic Hot Water - Water Temperature Reduction on Water Heater	26.24	2 therms	\$ 1	\$ -	\$ 1	2
Off	E	Senior Center - HVAC - Furnace Tune-up	0.15	48 therms	\$ 350	\$ -	\$ 4,305	56
Off	E	Senior Center - HVAC - Window Treatment - Blinds	0.00	1 therms	\$ 5,000	\$ -	\$ 4,855	1
On	E	Senior Center - Remove Soda Machine	23.86	630 kWh	\$ 20	\$ -	\$ 20	4

'Results' Tab (Continued)

		MEASURES							
		Name	Savings-to-investment ratio	Savings/generation	Installed cost before incentives	Incentive amounts	Present value cost with incentives	lbs CO ₂ avoided from fossil emissions	Simple Payback [years]
Off	R	Senior Center - Renewables - Solar Electric Power	0.09	28685 kWh	\$ 175,000	\$ -	\$ 155,400	166	87.15
On	E	Jefferson Utilities/Police Department - Domestic Hot Water - On Demand Water Heater Installation	4.69	925 therms	\$ 2,000	\$ -	\$ 1,776	1,084	2.15
On	E	Jefferson Utilities/Police Department - HVAC -High Efficiency Retrofits/Internal Heating of Air with CO Sensor	0.46	9862 therms	\$ 400,000	\$ -	\$ 377,200	12,149	23.29
Off	E	Jefferson Utilities/Police Department - Renewables - HVAC-Geothermal	0.31	14793 therms	\$ 900,000	\$ -	\$ 848,700	18,224	34.94
Off									#DIV/0!
Off	R	Jefferson Utilities/Police Department - Renewables - Solar Electric Power	0.10	195574 kWh	\$ 1,100,000	\$ -	\$ 976,800	1,129	80.35
Off									#DIV/0!
Off									#DIV/0!
Off									#DIV/0!
Off									#DIV/0!
On	E	Wastewater Treatment Plant - Plant Upgrades - Aeration Blower #4 Motor	24.21	44050 kWh	\$ 1,300	\$ -	\$ 1,262	254	0.42
On	E	Wastewater Treatment Plant - Channel Blower #2 Motor	13.93	6824 kWh	\$ 350	\$ -	\$ 340	39	0.73
On	E	Wastewater Treatment Plant - Plant Upgrades -Primary Clarifier #2 Motor	3.61	1264 kWh	\$ 250	\$ -	\$ 243	7	2.83
Off	E	Wastewater Treatment Plant - Plant Upgrades -Non-potable water pump #1 motor	0.55	387 kWh	\$ 475	\$ -	\$ 448	2	17.53
Off	E	Wastewater Treatment Plant - Plant Upgrades -Non-potable water pump #2 motor	0.55	387 kWh	\$ 475	\$ -	\$ 448	2	17.53
Off	E	Wastewater Treatment Plant - Plant Upgrades -Non-potable water pump #1 motor	0.55	387 kWh	\$ 475	\$ -	\$ 448	2	17.53
Off	E	Wastewater Treatment Plant - Plant Upgrades -Non-potable water pump #2 motor	0.55	387 kWh	\$ 475	\$ -	\$ 448	2	17.53
On	E	Wastewater Treatment Plant - Plant Upgrades -DAF Recycle pump #1 replacement	4.27	6145 kWh	\$ 900	\$ -	\$ 824	35	2.09
On	E	Wastewater Treatment Plant - Plant Upgrades -DAF Recycle pump #2 replacement	4.27	6145 kWh	\$ 900	\$ -	\$ 824	35	2.09
On	E	Wastewater Treatment Plant - Primary Clarifier Drive #1 Motor	3.36	1742 kWh	\$ 300	\$ -	\$ 266	10	2.46
On	E	Wastewater Treatment Plant - Primary Clarifier Drive #1 Motor	3.36	1743 kWh	\$ 300	\$ -	\$ 266	10	2.46
On	E	Wastewater Treatment Plant - HVAC - Building 75	3.29	2424 therms	\$ 8,000	\$ -	\$ 7,320	2,838	3.30
Off	E	Wastewater Treatment Plant - HVAC - Building 10	0.80	431 therms	\$ 5,000	\$ -	\$ 4,315	505	11.60
On	E	Wastewater Treatment Plant - Lighting - Maintenance Bay Lighting Building 78	1.77	3200 kWh	\$ 1,212	\$ -	\$ 1,143	18	5.41
On	E	Wastewater Treatment Plant - Lighting - Lab Lighting Building 75	1.00	1200 kWh	\$ 750	\$ -	\$ 686	7	8.93
Off	E	Wastewater Treatment Plant - Lighting -Light Fixtures Building 68	0.43	1600 kWh	\$ 2,144	\$ -	\$ 1,904	9	19.14
Off	E	Wastewater Treatment Plant - Lighting -Light Fixtures Building 75	0.85	900 kWh	\$ 560	\$ -	\$ 483	5	8.89
Off	E	Wastewater Treatment Plant - HVAC - Heat Exchanger Building 68	0.07	1956 kWh	\$ 15,000	\$ -	\$ 12,945	11	109.55
Off	E	Wastewater Treatment Plant - HVAC - Heat Exchanger Building 12	0.07	1956 kWh	\$ 15,000	\$ -	\$ 12,945	11	109.55
On	R	Wastewater Treatment Plant - Renewables - Anaerobic Digester -Methane Utilization of Current Loading	1.07	299361 kWh	\$ 200,000	\$ -	\$ 194,200	1,728	9.54
Off	R	Wastewater Treatment Plant - Renewables - Anaerobic Digester -Methane Utilization of Maximum Loading	0.68	563551 kWh	\$ 400,000	\$ -	\$ 334,800	3,253	10.14
Off	R	Wastewater Treatment Plant - Building #10, 12, 68, 75, 78, 80 - Renewables - Solar Electric Power	0.09	85605 kWh	\$ 551,000	\$ -	\$ 489,288	494	91.95
On	E	Museum - Demo - Eliminate Consumption	2.76	535 therms	\$ 2,903	\$ -	\$ 2,903	634	4.64
Off	E	Street Lights - Lighting - LED Retrofit	0.38	390769 kWh	\$ 602,000	\$ -	\$ 534,576	2,256	22.01
On	E	Street Lights - Lighting - Induction Retrofit	0.66	390769 kWh	\$ 344,000	\$ -	\$ 305,472	2,256	12.58
Off	E	Street Lights - Lighting - Fluorescent Retrofit	0.75	390769 kWh	\$ 301,000	\$ -	\$ 267,288	2,256	11.00
Off									#DIV/0!
Off									#DIV/0!

'Results' Tab (Continued)

		MEASURES							
		Name	Savings-to-investment ratio	Savings/generation	Installed cost before incentives	Incentive amounts	Present value cost with incentives	lbs CO ₂ avoided from fossil emissions	Simple Payback [years]
Off									#DIV/0!
Off	R	Public - Renewables - Wind	0.26	120570 kWh	\$ 350,000	\$ 100,000	\$ 235,265	696	29.62
Off	R	Public - Renewables - Wind	0.17	139057 kWh	\$ 550,000	\$ 100,000	\$ 420,445	803	46.23
Off	R	Public - Renewables - Wind	0.25	335725 kWh	\$ 750,000	\$ -	\$ 694,425	1,938	31.91
Off	R	Public - Renewables - Wind	0.31	1020553 kWh	\$ 1,800,000	\$ -	\$ 1,666,620	5,892	25.20
Off	R	Public - Renewables - Wind	0.35	1778753 kWh	\$ 2,700,000	\$ -	\$ 2,602,260	10,269	21.68
Off									#DIV/0!
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Off									#DIV/0!
Off									#DIV/0!
Off									#DIV/0!
On	E	Fleet - Efficiency - Hybrid Fuel Cells (Hydrogen On- Demand)	1.22	4650 gallons diesel	\$ 40,000	\$ -	\$ 153,240	21,485	2.22
Off									#DIV/0!
On	E	Policy - Energy Policy/Purchasing Policy - Behavior modification	8.92	37519 kWh	\$ 1,000	\$ -	\$ 5,417	2,266	0.23

'Summary' Tab

		2003								2004								2005								
		kWh	therms	unleaded	diesel	Other 1	Other 2	Other 3	dollars	kWh	therms	unleaded	diesel	Other 1	Other 2	Other 3	dollars	kWh	therms	unleaded	diesel	Other 1	Other 2	Other 3	dollars	
Jefferson	Buildings	710,193	69,888			-4,483			\$98,771	692,749	64,873			4			\$100,116	735,787	55,082			-9			\$105,633	
	Water	1,029,576	21,913			10,027			\$128,812	2,397,165	36,547			-3			\$135,839	2,236,455	31,884			5			\$137,764	
	Lights																									
	Fleet																			6,376	7,657		444		\$32,646	
In	MMBTus																									
	Buildings	2,423	6,989	0	0	-4	0	0	9,407	2,364	6,487	0	0	0	0	0	8,851	2,511	5,508	0	0	0	0	0	8,019	
	Water	3,513	2,191	0	0	-10	0	0	5,694	8,179	3,655	0	0	0	0	0	11,834	7,631	3,188	0	0	0	0	0	10,819	
	Lights	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Fleet	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	791	1,064	0	58	0	1,913	
	Totals	5,936	9,180	0	0	-15	0	0	15,102	10,543	10,142	0	0	0	0	0	20,685	10,141	8,697	791	1,064	0	58	0	20,751	
	Dollars								\$227,582								\$235,955								\$276,043	

2010 Wisconsin Energy Independent Community Partnership

'Summary' Tab (Continued)

	2006							2007							2008									
	kWh	therms	unleaded	diesel	Other 1	Other 2	Other 3	dollars	kWh	therms	unleaded	diesel	Other 1	Other 2	Other 3	dollars	kWh	therms	unleaded	diesel	Other 1	Other 2	Other 3	dollars
Buildings	710,053	49,976			13			\$102,749	756,059	57,795			-1			\$116,015	738,612	62,947			-1			\$132,214
Water	2,298,731	26,823			-3			\$141,374	2,285,317	31,783			-6			\$149,325	2,378,935	33,681			-2			\$170,302
Lights	758,961	0			0			\$92,668	689,392	0			0			\$93,629	684,345	0			0			\$97,313
Fleet			14,085	11,917		1,144		\$68,513			16,683	17,466		1,103		\$95,213			15,346	18,804		1,075		\$112,395

In
MMBTus

	kWh	therms	unleaded	diesel	Other 1	Other 2	Other 3	end use subtotals	kWh	therms	unleaded	diesel	Other 1	Other 2	Other 3	end use subtotals	kWh	therms	unleaded	diesel	Other 1	Other 2	Other 3	end use subtotals
Buildings	2,423	4,998	0	0	0	0	0	7,420	2,580	5,779	0	0	0	0	0	8,359	2,520	6,295	0	0	0	0	0	8,815
Water	7,843	2,682	0	0	0	0	0	10,526	7,798	3,178	0	0	0	0	0	10,976	8,117	3,368	0	0	0	0	0	11,485
Lights	2,590	0	0	0	0	0	0	2,590	2,352	0	0	0	0	0	0	2,352	2,335	0	0	0	0	0	0	2,335
Fleet	0	0	1,746	1,656	0	149	0	3,552	0	0	2,069	2,428	0	143	0	4,640	0	0	1,903	2,614	0	140	0	4,656
Totals	12,856	7,680	1,746	1,656	0	149	0	24,087	12,729	8,958	2,069	2,428	0	143	0	26,327	12,972	9,663	1,903	2,614	0	140	0	27,291
Dollars								\$405,304								\$454,182								\$512,224

	kWh	therms	unleaded	diesel	Other 1	Other 2	Other 3	dollars
Buildings	687,533	64,531			-1			\$116,120
Water	2,236,129	32,133			1			\$169,908
Lights	799,373	0			0			\$112,383
Fleet			18,111	16,084		1,541		\$77,739

In
MMBTus

	kWh	therms	unleaded	diesel	Other 1	Other 2	Other 3	end use subtotals
Buildings	2,346	6,453	0	0	0	0	0	8,799
Water	7,630	3,213	0	0	0	0	0	10,843
Lights	2,727	0	0	0	0	0	0	2,727
Fleet	0	0	2,246	2,236	0	200	0	4,682
Totals	12,703	9,666	2,246	2,236	0	200	0	27,051
Dollars								\$476,150

2010 Wisconsin Energy Independent Community Partnership

'Summary' Tab (Continued)

Increases

	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2007 -2009	Annualized growth rate
Buildings	-6%	-9%	-7%	13%	5%	0%	5%	2.6%
Water	108%	0%	-3%	4%	5%	-6%	-1%	-0.6%
Lights	#DIV/0!	#DIV/0!	0%	-9%	-1%	17%	16%	7.7%
Fleet	#DIV/0!	#DIV/0!	86%	131%	0%	1%	1%	0.5%
Electricity	78%	-4%	27%	-1%	2%	-2%	0%	-0.1%
Natural gas	10%	-14%	-12%	17%	8%	0%	8%	3.9%
Unleaded	#DIV/0!	#DIV/0!	121%	18%	-8%	18%	9%	4.2%
Diesel	#DIV/0!	#DIV/0!	56%	47%	8%	-14%	-8%	-4.0%
Dollars	4%	17%	47%	12%	13%	-7%	5%	2.4%
totals	37%	0%	16%	9%	4%	-1%	3%	1.4%

Subtotals (in MMBtu)

	2007	2008	2009	Average	Percent of total	Total years considered		Percent of total
Buildings	8,359	8,815	8,799	8,658	32%	3		
Water	10,976	11,485	10,843	11,101	41%			
Lights	2,352	2,335	2,727	2,472	9%			
Fleet	4,640	4,656	4,682	4,659	17%			
Dollars	454,182	512,224	476,150	480,852				
	2007	2008	2009	Average	Percent of total	in original units	lbs CO2	Percent of total
Electricity	12,729	12,972	12,703	12,801	48%	3,751,898	6,348,212	78%
Natural gas	8,958	9,663	9,666	9,429	35%	94,290	1,103,950	14%
Unleaded	2,069	1,903	2,246	2,072	8%	16,713	326,575	4%
Diesel	2,428	2,614	2,236	2,426	9%	17,451	390,381	5%
Other	143	140	200	161	1%			
MMBtus	26,327	27,291	27,051	26,890		<i>Total</i>	8,169,118	

2009 vs. average

	2009	Average	Difference	Total number of Nov09s in bldg/water	0
Buildings	8,799	8,658	2%	Total number of facilities in bldg/water	29
Water	10,843	11,101	-2%	Project parameters	
Lights	2,727	2,472	10%	Goal year	2025
Fleet	4,682	4,659	0%	Activity year	2010
Electricity	12,703	12,801	-1%	Year of most recent data	2009
Natural gas	9,666	9,429	3%	Year plan begins	2011
Unleaded	2,246	2,072	8%	Example growth rate	4.4%
Diesel	2,236	2,426	-8%	Renewable goal	25%
totals	27,051	26,890	1%	<-- check for reasonableness	

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2010 Wisconsin Energy Independent Community Partnership

'Buildings' Tab

*Columns were deleted that contained redundant information or had zero values.

Building ID	Facility Name	Period Ending Date	Year	Original Electric Use (kWh)	Electric Use (kWh)	Original Natural Gas Use (therms)	Natural Gas Use (therms)	Original Site Energy Use (kBtu)	Site Energy Use (kBtu)	Non-kWh/therm Use (kBtu)	Original Annual Energy Cost (US Dollars (\$))	Annual Energy Cost (US Dollars (\$))	Facility Type	Current Total Floor space (Sq. Ft.)	Direct GHG Emissions (MtCO2e)	Site EUI (kBtu/Sq. Ft.)	Weather Normalized Site EUI (kBtu/Sq. Ft.)
2236043	JF Public Works Facility	12/31/2002	2002	N/A	N/A	N/A	N/A	N/A	N/A	0.0	2,426.43	2,426.43	Other	5,500	N/A	N/A	N/A
2236043	JF Public Works Facility	12/31/2003	2003	72,550.3	72,550.3	11,797.5	11,797.5	1,419,332.8	1,419,332.8	-7,958.8	14,205.89	14,205.89	Other	5,500	62.76	258.1	259.8
2236043	JF Public Works Facility	12/31/2004	2004	74,419.4	74,419.4	11,488.8	11,488.8	1,402,803.0	1,402,803.0	4.0	15,896.58	15,896.58	Other	5,500	61.12	255.1	272.1
2236043	JF Public Works Facility	12/31/2005	2005	74,120.6	74,120.6	11,123.1	11,123.1	1,365,207.0	1,365,207.0	-2.5	16,592.04	16,592.04	Other	5,500	59.17	248.2	266.3
2236043	JF Public Works Facility	12/31/2006	2006	73,601.3	73,601.3	10,113.8	10,113.8	1,262,511.5	1,262,511.5	3.9	16,275.97	16,275.97	Other	5,500	53.81	229.5	257.1
2236043	JF Public Works Facility	12/31/2007	2007	75,959.4	75,959.4	11,264.9	11,264.9	1,385,663.0	1,385,663.0	-0.5	17,968.76	17,968.76	Other	5,500	59.93	251.9	267.1
2236043	JF Public Works Facility	12/31/2008	2008	76,792.2	76,792.2	11,928.1	11,928.1	1,454,823.4	1,454,823.4	-1.6	19,863.21	19,863.21	Other	5,500	63.46	264.5	253.5
2236043	JF Public Works Facility	12/31/2009	2009	60,639.2	60,639.2	12,592.4	12,592.4	1,466,145.5	1,466,145.5	4.5	18,009.75	18,009.75	Other	5,500	66.99	266.6	269.4
2236249	JF Senior Center	12/31/2002	2002	N/A	N/A	N/A	N/A	N/A	N/A	0.0	595.43	595.43	Social/Meeting	5,993	N/A	N/A	N/A
2236249	JF Senior Center	12/31/2003	2003	N/A	N/A	N/A	N/A	N/A	N/A	0.0	2,228.11	2,228.11	Social/Meeting	5,993	N/A	N/A	N/A
2236249	JF Senior Center	12/31/2004	2004	43,152.8	43,152.8	2,369.9	2,369.9	384,224.5	384,224.5	-2.9	5,222.34	5,222.34	Social/Meeting	5,993	12.61	64.1	66.9
2236249	JF Senior Center	12/31/2005	2005	54,964.8	54,964.8	2,352.1	2,352.1	422,746.5	422,746.5	-3.4	6,730.34	6,730.34	Social/Meeting	5,993	12.51	70.5	72.5
2236249	JF Senior Center	12/31/2006	2006	53,739.6	53,739.6	2,063.1	2,063.1	389,667.8	389,667.8	-1.7	6,400.21	6,400.21	Social/Meeting	5,993	10.98	65.0	68.7
2236249	JF Senior Center	12/31/2007	2007	58,173.7	58,173.7	2,446.9	2,446.9	443,179.5	443,179.5	0.8	7,429.29	7,429.29	Social/Meeting	5,993	13.02	74.0	75.5
2236249	JF Senior Center	12/31/2008	2008	54,829.7	54,829.7	2,774.7	2,774.7	464,548.4	464,548.4	-0.5	8,164.40	8,164.40	Social/Meeting	5,993	14.76	77.5	76.1
2236249	JF Senior Center	12/31/2009	2009	40,463.2	40,463.2	2,881.9	2,881.9	426,251.9	426,251.9	1.5	6,462.08	6,462.08	Social/Meeting	5,993	15.33	71.1	71.0
2236779	JF Riverfront Park, Tennis Court	12/31/2002	2002	N/A	N/A	N/A	N/A	N/A	N/A	0.0	4.67	4.67	Other	0	N/A	0.0	0.0
2236779	JF Riverfront Park, Tennis Court	12/31/2003	2003	N/A	N/A	N/A	N/A	N/A	N/A	0.0	478.87	478.87	Other	0	N/A	0.0	0.0
2236779	JF Riverfront Park, Tennis Court	12/31/2004	2004	N/A	N/A	N/A	N/A	N/A	N/A	0.0	407.86	407.86	Other	0	N/A	0.0	0.0
2236779	JF Riverfront Park, Tennis Court	12/31/2005	2005	5,463.1	5,463.1	0.0	0.0	18,640.2	18,640.2	0.1	462.25	462.25	Other	0	N/A	0.0	0.0
2236779	JF Riverfront Park, Tennis Court	12/31/2006	2006	5,503.1	5,503.1	0.0	0.0	18,776.6	18,776.6	0.0	459.24	459.24	Other	0	N/A	0.0	0.0
2236779	JF Riverfront Park, Tennis Court	12/31/2007	2007	4,588.3	4,588.3	0.0	0.0	15,655.4	15,655.4	0.1	438.64	438.64	Other	0	N/A	0.0	0.0
2236779	JF Riverfront Park, Tennis Court	12/31/2008	2008	1,456.4	1,456.4	0.0	0.0	4,969.3	4,969.3	0.1	171.70	171.70	Other	0	N/A	0.0	0.0
2236779	JF Riverfront Park, Tennis Court	12/31/2009	2009	1,276.1	1,276.1	0.0	0.0	4,354.2	4,354.2	0.1	156.93	156.93	Other	0	N/A	0.0	0.0

2010 Wisconsin Energy Independent Community Partnership

'Buildings' Tab (Continued)

*Columns were deleted that contained redundant information or had zero values.

Building ID	Facility Name	Period Ending Date	Year	Original Electric Use (kWh)	Electric Use (kWh)	Original Natural Gas Use (therms)	Natural Gas Use (therms)	Original Site Energy Use (kBtu)	Site Energy Use (kBtu)	Non-kWh/therm Use (kBtu)	Original Annual Energy Cost (US Dollars (\$))	Annual Energy Cost (US Dollars (\$))	Facility Type	Current Total Floor space (Sq. Ft.)	Direct GHG Emissions (MtCO2e)	Site EUI (kBtu/Sq. Ft.)	Weather Normalized Site EUI (kBtu/Sq. Ft.)
2245854	JF Jefferson Utilities/Police Department	12/31/2002	2002	N/A	N/A	N/A	N/A	N/A	N/A	0.0	4,723.86	4,723.86	Office	16,851	N/A	N/A	N/A
2245854	JF Jefferson Utilities/Police Department	12/31/2003	2003	251,667.0	251,667.0	21,913.2	21,913.2	3,039,975.7	3,039,975.7	-10,027.2	28,689.33	28,689.33	Office	16,851	233.16	360.8	362.6
2245854	JF Jefferson Utilities/Police Department	12/31/2004	2004	252,336.0	252,336.0	19,717.5	19,717.5	2,832,722.1	2,832,722.1	1.7	28,768.78	28,768.78	Office	16,851	209.79	336.2	349.7
2245854	JF Jefferson Utilities/Police Department	12/31/2005	2005	276,624.0	276,624.0	16,734.2	16,734.2	2,617,255.8	2,617,255.8	-0.3	31,833.19	31,833.19	Office	16,851	178.05	310.6	315.0
2245854	JF Jefferson Utilities/Police Department	12/31/2006	2006	251,808.0	251,808.0	14,360.4	14,360.4	2,295,205.7	2,295,205.7	1.8	28,934.01	28,934.01	Office	16,851	152.79	272.4	284.3
2245854	JF Jefferson Utilities/Police Department	12/31/2007	2007	275,520.0	275,520.0	16,904.7	16,904.7	2,630,537.5	2,630,537.5	-1.7	33,859.59	33,859.59	Office	16,851	179.87	312.2	311.6
2245854	JF Jefferson Utilities/Police Department	12/31/2008	2008	263,712.0	263,712.0	16,506.8	16,506.8	2,550,461.2	2,550,461.2	0.9	36,843.10	36,843.10	Office	16,851	175.63	302.7	297.6
2245854	JF Jefferson Utilities/Police Department	12/31/2009	2009	255,264.0	255,264.0	16,994.5	16,994.5	2,570,405.0	2,570,405.0	-0.8	32,615.37	32,615.37	Office	16,851	180.82	305.1	306.4
2245886	JF EMS/Parks/Cold Storage	12/31/2002	2002	N/A	N/A	N/A	N/A	N/A	N/A	0.0	1,458.59	1,458.59	Other	3,165	N/A	N/A	N/A
2245886	JF EMS/Parks/Cold Storage	12/31/2003	2003	14,822.3	14,822.3	4,641.8	4,641.8	514,749.8	514,749.8	-3.9	5,297.21	5,297.21	Other	3,165	24.69	162.6	162.8
2245886	JF EMS/Parks/Cold Storage	12/31/2004	2004	16,986.2	16,986.2	3,165.4	3,165.4	374,500.2	374,500.2	3.3	4,556.02	4,556.02	Other	3,165	16.84	118.3	134.0
2245886	JF EMS/Parks/Cold Storage	12/31/2005	2005	16,219.5	16,219.5	2,798.6	2,798.6	335,199.9	335,199.9	-1.0	4,579.70	4,579.70	Other	3,165	14.89	105.9	116.9
2245886	JF EMS/Parks/Cold Storage	12/31/2006	2006	19,707.7	19,707.7	3,303.0	3,303.0	397,547.3	397,547.3	4.6	5,573.37	5,573.37	Other	3,165	17.57	125.6	141.7
2245886	JF EMS/Parks/Cold Storage	12/31/2007	2007	36,575.9	36,575.9	4,929.5	4,929.5	617,744.9	617,744.9	-2.1	8,709.11	8,709.11	Other	3,165	26.22	195.2	206.8
2245886	JF EMS/Parks/Cold Storage	12/31/2008	2008	48,155.9	48,155.9	5,355.1	5,355.1	699,816.8	699,816.8	-1.1	10,676.93	10,676.93	Other	3,165	28.49	221.1	213.5
2245886	JF EMS/Parks/Cold Storage	12/31/2009	2009	45,873.8	45,873.8	5,088.2	5,088.2	665,343.5	665,343.5	2.1	9,679.73	9,679.73	Other	3,165	27.07	210.2	209.7

Percentage Attributable to Building (not Water)

50%

2010 Wisconsin Energy Independent Community Partnership

'Buildings' Tab

*Columns were deleted that contained redundant information or had zero values.

Building ID	Facility Name	Period Ending Date	Year	Original Electric Use (kWh)	Electric Use (kWh)	Original Natural Gas Use (therms)	Natural Gas Use (therms)	Original Site Energy Use (kBtu)	Site Energy Use (kBtu)	Non-kWh/therm Use (kBtu)	Original Annual Energy Cost (US Dollars (\$))	Annual Energy Cost (US Dollars (\$))	Facility Type	Current Total Floor space (Sq. Ft.)	Direct GHG Emissions (MtCO2e)	Site EUI (kBtu/Sq. Ft.)	Weather Normalized Site EUI (kBtu/Sq. Ft.)
2245898	JF Aquatic Center	12/31/2002	2002	N/A	N/A	N/A	N/A	N/A	N/A	0.0	379.92	379.92	Office	3,316	N/A	N/A	N/A
2245898	JF Aquatic Center	12/31/2003	2003	41,262.4	41,262.4	13,218.0	13,218.0	1,473,541.5	1,473,541.5	10,954.2	12,394.63	12,394.63	Office	3,316	70.32	444.4	453.9
2245898	JF Aquatic Center	12/31/2004	2004	39,554.4	39,554.4	10,247.0	10,247.0	1,159,659.5	1,159,659.5	-0.1	11,486.71	11,486.71	Office	3,316	54.51	349.7	400.1
2245898	JF Aquatic Center	12/31/2005	2005	38,585.6	38,585.6	5,839.0	5,839.0	715,554.2	715,554.2	0.1	8,139.45	8,139.45	Office	3,316	31.06	215.8	183.4
2245898	JF Aquatic Center	12/31/2006	2006	39,879.0	39,879.0	1,692.0	1,692.0	305,267.1	305,267.1	0.0	4,934.31	4,934.31	Office	3,316	9.00	92.1	82.3
2245898	JF Aquatic Center	12/31/2007	2007	41,711.9	41,711.9	5,014.0	5,014.0	643,720.9	643,720.9	-0.1	8,147.78	8,147.78	Office	3,316	26.67	194.1	165.0
2245898	JF Aquatic Center	12/31/2008	2008	34,180.9	34,180.9	3,811.0	3,811.0	497,725.3	497,725.3	0.1	8,258.05	8,258.05	Office	3,316	20.27	150.1	130.6
2245898	JF Aquatic Center	12/31/2009	2009	36,334.7	36,334.7	8,139.0	8,139.0	937,874.1	937,874.1	0.1	8,115.53	8,115.53	Office	3,316	43.30	282.8	322.4
2245909	JF Stoppenbach Park	12/31/2002	2002	N/A	N/A	N/A	N/A	N/A	N/A	0.0	11.70	11.70	Other	836	N/A	N/A	N/A
2245909	JF Stoppenbach Park	12/31/2003	2003	3,361.4	3,361.4	0.0	0.0	11,468.9	11,468.9	-0.2	307.18	307.18	Other	836	N/A	13.7	13.7
2245909	JF Stoppenbach Park	12/31/2004	2004	3,091.6	3,091.6	0.0	0.0	10,548.5	10,548.5	0.0	296.45	296.45	Other	836	N/A	12.6	12.6
2245909	JF Stoppenbach Park	12/31/2005	2005	2,922.8	2,922.8	0.0	0.0	9,972.6	9,972.6	0.0	306.64	306.64	Other	836	N/A	11.9	11.9
2245909	JF Stoppenbach Park	12/31/2006	2006	3,249.7	3,249.7	0.0	0.0	11,088.1	11,088.1	0.1	332.61	332.61	Other	836	N/A	13.3	13.3
2245909	JF Stoppenbach Park	12/31/2007	2007	3,432.2	3,432.2	0.0	0.0	11,710.8	11,710.8	0.1	365.80	365.80	Other	836	N/A	14.0	14.0
2245909	JF Stoppenbach Park	12/31/2008	2008	3,292.7	3,292.7	0.0	0.0	11,234.6	11,234.6	-0.1	373.82	373.82	Other	836	N/A	13.4	13.4
2245909	JF Stoppenbach Park	12/31/2009	2009	2,732.5	2,732.5	0.0	0.0	9,323.2	9,323.2	-0.1	335.15	335.15	Other	836	N/A	11.2	11.2
2245931	JF Stoppenbach Park Shelter	12/31/2002	2002	N/A	N/A	N/A	N/A	N/A	N/A	0.0	8.10	8.10	Other	0	N/A	0.0	0.0
2245931	JF Stoppenbach Park Shelter	12/31/2003	2003	1,704.7	1,704.7	0.0	0.0	5,816.5	5,816.5	0.1	196.63	196.63	Other	0	N/A	0.0	0.0
2245931	JF Stoppenbach Park Shelter	12/31/2004	2004	1,452.7	1,452.7	0.0	0.0	4,956.6	4,956.6	0.0	183.25	183.25	Other	0	N/A	0.0	0.0
2245931	JF Stoppenbach Park Shelter	12/31/2005	2005	853.6	853.6	0.0	0.0	2,912.3	2,912.3	-0.2	149.90	149.90	Other	0	N/A	0.0	0.0
2245931	JF Stoppenbach Park Shelter	12/31/2006	2006	872.2	872.2	0.0	0.0	2,976.0	2,976.0	0.1	150.58	150.58	Other	0	N/A	0.0	0.0
2245931	JF Stoppenbach Park Shelter	12/31/2007	2007	1,018.2	1,018.2	0.0	0.0	3,474.0	3,474.0	-0.1	167.56	167.56	Other	0	N/A	0.0	0.0
2245931	JF Stoppenbach Park Shelter	12/31/2008	2008	654.5	654.5	0.0	0.0	2,233.1	2,233.1	-0.1	142.00	142.00	Other	0	N/A	0.0	0.0
2245931	JF Stoppenbach Park Shelter	12/31/2009	2009	772.6	772.6	0.0	0.0	2,636.2	2,636.2	0.1	155.65	155.65	Other	0	N/A	0.0	0.0

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'Buildings' Tab (Continued)

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Building ID	Facility Name	Period Ending Date	Year	Original Electric Use (kWh)	Electric Use (kWh)	Original Natural Gas Use (therms)	Natural Gas Use (therms)	Original Site Energy Use (kBtu)	Site Energy Use (kBtu)	Non-kWh/therm Use (kBtu)	Original Annual Energy Cost (US Dollars (\$))	Annual Energy Cost (US Dollars (\$))	Facility Type	Current Total Floor space (Sq. Ft.)	Direct GHG Emissions (MtCO2e)	Site EUI (kBtu/Sq. Ft.)	Weather Normalized Site EUI (kBtu/Sq. Ft.)
2245934	JF Tensfeldt Park, Soccer Field Concession Stand	12/31/2006	2006	N/A	N/A	N/A	N/A	N/A	N/A	0.0	35.24	35.24	Other	1,500	N/A	N/A	N/A
2245934	JF Tensfeldt Park, Soccer Field Concession Stand	12/31/2007	2007	N/A	N/A	N/A	N/A	N/A	N/A	0.0	84.09	84.09	Other	1,500	N/A	N/A	N/A
2245934	JF Tensfeldt Park, Soccer Field Concession Stand	12/31/2008	2008	4,507.0	4,507.0	0.0	0.0	15,377.9	15,377.9	0.0	455.02	455.02	Other	1,500	N/A	10.3	10.3
2245934	JF Tensfeldt Park, Soccer Field Concession Stand	12/31/2009	2009	1,763.5	1,763.5	0.0	0.0	6,017.1	6,017.1	0.0	247.25	247.25	Other	1,500	N/A	4.0	4.0
2245936	JF Riverfront Park	12/31/2002	2002	N/A	N/A	N/A	N/A	N/A	N/A	0.0	18.34	18.34	Other	850	N/A	N/A	N/A
2245936	JF Riverfront Park	12/31/2003	2003	11,964.7	11,964.7	0.0	0.0	40,823.4	40,823.4	-0.2	981.95	981.95	Other	850	N/A	48.0	48.6
2245936	JF Riverfront Park	12/31/2004	2004	10,467.2	10,467.2	0.0	0.0	35,714.1	35,714.1	0.0	905.40	905.40	Other	850	N/A	42.0	43.2
2245936	JF Riverfront Park	12/31/2005	2005	13,860.3	13,860.3	0.0	0.0	47,291.3	47,291.3	0.0	1,238.29	1,238.29	Other	850	N/A	55.6	47.3
2245936	JF Riverfront Park	12/31/2006	2006	11,276.8	11,276.8	0.0	0.0	38,476.6	38,476.6	0.2	1,031.72	1,031.72	Other	850	N/A	45.3	43.0
2245936	JF Riverfront Park	12/31/2007	2007	10,618.1	10,618.1	0.0	0.0	36,229.1	36,229.1	0.1	1,062.09	1,062.09	Other	850	N/A	42.6	36.2
2245936	JF Riverfront Park	12/31/2008	2008	4,351.8	4,351.8	0.0	0.0	14,848.3	14,848.3	0.0	549.19	549.19	Other	850	N/A	17.5	17.5
2245936	JF Riverfront Park	12/31/2009	2009	4,855.6	4,855.6	0.0	0.0	16,567.1	16,567.1	-0.2	619.43	619.43	Other	850	N/A	19.5	19.5
2247526	JF Riverfront Park, New Shelter	12/31/2002	2002	N/A	N/A	N/A	N/A	N/A	N/A	0.0	78.78	78.78	Other	0	N/A	0.0	0.0
2247526	JF Riverfront Park, New Shelter	12/31/2003	2003	9,860.6	9,860.6	0.0	0.0	33,644.5	33,644.5	0.1	732.57	732.57	Other	0	N/A	0.0	0.0
2247526	JF Riverfront Park, New Shelter	12/31/2004	2004	8,950.8	8,950.8	0.0	0.0	30,540.1	30,540.1	0.0	687.77	687.77	Other	0	N/A	0.0	0.0
2247526	JF Riverfront Park, New Shelter	12/31/2005	2005	10,643.2	10,643.2	0.0	0.0	36,314.6	36,314.6	0.0	868.59	868.59	Other	0	N/A	0.0	0.0
2247526	JF Riverfront Park, New Shelter	12/31/2006	2006	10,546.5	10,546.5	0.0	0.0	35,984.6	35,984.6	-0.1	895.82	895.82	Other	0	N/A	0.0	0.0
2247526	JF Riverfront Park, New Shelter	12/31/2007	2007	11,595.9	11,595.9	0.0	0.0	39,565.3	39,565.3	0.1	1,009.13	1,009.13	Other	0	N/A	0.0	0.0
2247526	JF Riverfront Park, New Shelter	12/31/2008	2008	9,697.6	9,697.6	0.0	0.0	33,088.2	33,088.2	0.0	922.26	922.26	Other	0	N/A	0.0	0.0
2247526	JF Riverfront Park, New Shelter	12/31/2009	2009	11,523.0	11,523.0	0.0	0.0	39,316.4	39,316.4	-0.1	1,116.67	1,116.67	Other	0	N/A	0.0	0.0
2247531	JF Riverfront Park, Little League Stand	12/31/2002	2002	N/A	N/A	N/A	N/A	N/A	N/A	0.0	6.21	6.21	Other	640	N/A	N/A	N/A
2247531	JF Riverfront Park, Little League Stand	12/31/2003	2003	7,446.0	7,446.0	0.0	0.0	25,405.6	25,405.6	-0.2	594.26	594.26	Other	640	N/A	39.7	40.3
2247531	JF Riverfront Park, Little League Stand	12/31/2004	2004	6,934.1	6,934.1	0.0	0.0	23,659.2	23,659.2	0.1	591.12	591.12	Other	640	N/A	37.0	42.5
2247531	JF Riverfront Park, Little League Stand	12/31/2005	2005	10,874.5	10,874.5	0.0	0.0	37,103.8	37,103.8	0.0	933.56	933.56	Other	640	N/A	58.0	49.3
2247531	JF Riverfront Park, Little League Stand	12/31/2006	2006	10,176.4	10,176.4	0.0	0.0	34,721.9	34,721.9	0.0	862.31	862.31	Other	640	N/A	54.3	50.0
2247531	JF Riverfront Park, Little League Stand	12/31/2007	2007	10,041.8	10,041.8	0.0	0.0	34,262.6	34,262.6	0.0	953.48	953.48	Other	640	N/A	53.5	45.6
2247531	JF Riverfront Park, Little League Stand	12/31/2008	2008	3,270.8	3,270.8	0.0	0.0	11,160.1	11,160.1	0.1	375.55	375.55	Other	640	N/A	17.4	17.4
2247531	JF Riverfront Park, Little League Stand	12/31/2009	2009	5,354.7	5,354.7	0.0	0.0	18,270.3	18,270.3	0.1	590.91	590.91	Other	640	N/A	28.5	29.9

2010 Wisconsin Energy Independent Community Partnership

'Buildings' Tab (Continued)

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Building ID	Facility Name	Period Ending Date	Year	Original Electric Use (kWh)	Electric Use (kWh)	Original Natural Gas Use (therms)	Natural Gas Use (therms)	Original Site Energy Use (kBtu)	Site Energy Use (kBtu)	Non-kWh/therm Use (kBtu)	Original Annual Energy Cost (US Dollars (\$))	Annual Energy Cost (US Dollars (\$))	Facility Type	Current Total Floor space (Sq. Ft.)	Direct GHG Emissions (MtCO2e)	Site EUI (kBtu/Sq. Ft.)	Weather Normalized Site EUI (kBtu/Sq. Ft.)
2247539	JF Museum - Oakridge Park	12/31/2002	2002	N/A	N/A	N/A	N/A	N/A	N/A	0.0	134.44	134.44	Other	2,248	N/A	N/A	N/A
2247539	JF Museum - Oakridge Park	12/31/2003	2003	3,119.9	3,119.9	262.1	262.1	39,409.0	39,409.0	2,553.9	599.62	599.62	Other	2,248	1.39	17.5	16.4
2247539	JF Museum - Oakridge Park	12/31/2004	2004	2,887.0	2,887.0	543.0	543.0	64,148.4	64,148.4	-2.0	876.69	876.69	Other	2,248	2.89	28.5	32.0
2247539	JF Museum - Oakridge Park	12/31/2005	2005	1,579.4	1,579.4	538.1	538.1	59,198.1	59,198.1	-0.8	852.78	852.78	Other	2,248	2.86	26.3	28.7
2247539	JF Museum - Oakridge Park	12/31/2006	2006	934.1	934.1	434.7	434.7	46,656.8	46,656.8	-0.3	714.20	714.20	Other	2,248	2.31	20.8	23.7
2247539	JF Museum - Oakridge Park	12/31/2007	2007	1,115.2	1,115.2	488.4	488.4	52,645.2	52,645.2	0.1	779.14	779.14	Other	2,248	2.60	23.4	25.0
2247539	JF Museum - Oakridge Park	12/31/2008	2008	1,028.9	1,028.9	567.9	567.9	60,299.2	60,299.2	-1.4	902.86	902.86	Other	2,248	3.02	26.8	25.5
2247539	JF Museum - Oakridge Park	12/31/2009	2009	1,561.3	1,561.3	533.6	533.6	58,684.2	58,684.2	-3.0	850.51	850.51	Other	2,248	2.84	26.1	26.4
2247553	JF City Hall/Library/Meeting Rooms/Museum	12/31/2002	2002	N/A	N/A	N/A	N/A	N/A	N/A	0.0	1,953.55	1,953.55	Public Assembly	31,907	N/A	N/A	N/A
2247553	JF City Hall/Library/Meeting Rooms/Museum	12/31/2003	2003	237,891.5	237,891.5	12,728.2	12,728.2	2,084,505.7	2,084,505.7	-0.1	22,844.98	22,844.98	Public Assembly	31,907	67.71	65.3	65.5
2247553	JF City Hall/Library/Meeting Rooms/Museum	12/31/2004	2004	181,628.5	181,628.5	12,146.1	12,146.1	1,834,324.7	1,834,324.7	-1.7	20,942.11	20,942.11	Public Assembly	31,907	64.62	57.5	58.7
2247553	JF City Hall/Library/Meeting Rooms/Museum	12/31/2005	2005	175,113.2	175,113.2	10,950.9	10,950.9	1,692,575.4	1,692,575.4	-0.8	22,874.29	22,874.29	Public Assembly	31,907	58.26	53.0	54.1
2247553	JF City Hall/Library/Meeting Rooms/Museum	12/31/2006	2006	169,976.7	169,976.7	12,235.8	12,235.8	1,803,543.1	1,803,543.1	2.6	24,426.17	24,426.17	Public Assembly	31,907	65.09	56.5	59.4
2247553	JF City Hall/Library/Meeting Rooms/Museum	12/31/2007	2007	158,421.3	158,421.3	11,730.2	11,730.2	1,713,551.8	1,713,551.8	-1.7	23,075.50	23,075.50	Public Assembly	31,907	62.40	53.7	53.7
2247553	JF City Hall/Library/Meeting Rooms/Museum	12/31/2008	2008	174,522.3	174,522.3	16,171.5	16,171.5	2,212,622.6	2,212,622.6	2.5	31,827.34	31,827.34	Public Assembly	31,907	86.03	69.3	68.8
2247553	JF City Hall/Library/Meeting Rooms/Museum	12/31/2009	2009	162,908.3	162,908.3	13,513.1	13,513.1	1,907,152.5	1,907,152.5	-0.6	26,123.74	26,123.74	Public Assembly	31,907	71.89	59.8	60.3
2247662	JF Fire Station	12/31/2002	2002	N/A	N/A	N/A	N/A	N/A	N/A	0.0	3,682.58	3,682.58	Other	7,270	N/A	N/A	N/A
2247662	JF Fire Station	12/31/2003	2003	52,406.9	52,406.9	5,327.2	5,327.2	711,531.3	711,531.3	-1.0	8,103.71	8,103.71	Other	7,270	28.34	97.9	100.2
2247662	JF Fire Station	12/31/2004	2004	48,785.4	48,785.4	5,194.9	5,194.9	685,947.8	685,947.8	2.0	8,194.11	8,194.11	Other	7,270	27.64	94.4	100.7
2247662	JF Fire Station	12/31/2005	2005	51,849.4	51,849.4	4,745.6	4,745.6	651,470.4	651,470.4	0.2	8,966.00	8,966.00	Other	7,270	25.25	89.6	97.4
2247662	JF Fire Station	12/31/2006	2006	56,654.8	56,654.8	5,773.6	5,773.6	770,668.5	770,668.5	2.3	10,610.18	10,610.18	Other	7,270	30.72	106.0	116.4
2247662	JF Fire Station	12/31/2007	2007	65,159.2	65,159.2	5,016.2	5,016.2	723,947.1	723,947.1	3.9	10,852.24	10,852.24	Other	7,270	26.69	99.6	104.4
2247662	JF Fire Station	12/31/2008	2008	55,985.7	55,985.7	5,831.6	5,831.6	774,183.1	774,183.1	-0.1	11,575.44	11,575.44	Other	7,270	31.02	106.5	102.8
2247662	JF Fire Station	12/31/2009	2009	54,113.8	54,113.8	4,788.5	4,788.5	663,481.5	663,481.5	-4.8	9,850.78	9,850.78	Other	7,270	25.47	91.3	92.1
2247683	JF Dam	12/31/2002	2002	N/A	N/A	N/A	N/A	N/A	N/A	0.0	4.88	4.88	Other	0	N/A	0.0	0.0
2247683	JF Dam	12/31/2003	2003	2.0	2.0	0.0	0.0	6.8	6.8	0.0	83.79	83.79	Other	0	N/A	0.0	0.0
2247683	JF Dam	12/31/2004	2004	2.0	2.0	0.0	0.0	6.8	6.8	0.0	84.34	84.34	Other	0	N/A	0.0	0.0
2247683	JF Dam	12/31/2005	2005	0.7	0.7	0.0	0.0	2.3	2.3	-0.1	84.13	84.13	Other	0	N/A	0.0	0.0
2247683	JF Dam	12/31/2006	2006	0.3	0.3	0.0	0.0	1.1	1.1	0.1	84.09	84.09	Other	0	N/A	0.0	0.0
2247683	JF Dam	12/31/2007	2007	N/A	N/A	N/A	N/A	N/A	N/A	0.0	84.02	84.02	Other	0	N/A	0.0	0.0
2247683	JF Dam	12/31/2008	2008	57.0	57.0	0.0	0.0	194.5	194.5	0.0	89.45	89.45	Other	0	N/A	0.0	0.0
2247683	JF Dam	12/31/2009	2009	N/A	N/A	N/A	N/A	N/A	N/A	0.0	84.33	84.33	Other	0	N/A	0.0	0.0

2010 Wisconsin Energy Independent Community Partnership

'Buildings' Tab (Continued)

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Building ID	Facility Name	Period Ending Date	Year	Original Electric Use (kWh)	Electric Use (kWh)	Original Natural Gas Use (therms)	Natural Gas Use (therms)	Original Site Energy Use (kBtu)	Site Energy Use (kBtu)	Non-kWh/therm Use (kBtu)	Original Annual Energy Cost (US Dollars (\$))	Annual Energy Cost (US Dollars (\$))	Facility Type	Current Total Floor space (Sq. Ft.)	Direct GHG Emissions (MtCO2e)	Site EUI (kBtu/Sq. Ft.)	Weather Normalized Site EUI (kBtu/Sq. Ft.)
2247707	JF Remote Fire Alarm	12/31/2002	2002	N/A	N/A	N/A	N/A	N/A	N/A	0.0	70.99	70.99	Other	0	N/A	0.0	0.0
2247707	JF Remote Fire Alarm	12/31/2003	2003	2,133.3	2,133.3	0.0	0.0	7,278.9	7,278.9	0.1	947.30	947.30	Other	0	N/A	0.0	0.0
2247707	JF Remote Fire Alarm	12/31/2004	2004	2,101.2	2,101.2	0.0	0.0	7,169.4	7,169.4	0.1	933.05	933.05	Other	0	N/A	0.0	0.0
2247707	JF Remote Fire Alarm	12/31/2005	2005	2,112.2	2,112.2	0.0	0.0	7,206.8	7,206.8	0.0	937.92	937.92	Other	0	N/A	0.0	0.0
2247707	JF Remote Fire Alarm	12/31/2006	2006	2,126.3	2,126.3	0.0	0.0	7,254.8	7,254.8	-0.1	944.16	944.16	Other	0	N/A	0.0	0.0
2247707	JF Remote Fire Alarm	12/31/2007	2007	2,127.5	2,127.5	0.0	0.0	7,259.0	7,259.0	0.0	944.71	944.71	Other	0	N/A	0.0	0.0
2247707	JF Remote Fire Alarm	12/31/2008	2008	2,116.8	2,116.8	0.0	0.0	7,222.5	7,222.5	0.0	939.96	939.96	Other	0	N/A	0.0	0.0
2247707	JF Remote Fire Alarm	12/31/2009	2009	2,096.6	2,096.6	0.0	0.0	7,153.7	7,153.7	0.1	1,023.06	1,023.06	Other	0	N/A	0.0	0.0
2249998	JF PD-Shooting Range/Compost Site	12/31/2002	2002	N/A	N/A	N/A	N/A	N/A	N/A	0.0	6.34	6.34	Other	0	N/A	0.0	0.0
2249998	JF PD-Shooting Range/Compost Site	12/31/2003	2003	N/A	N/A	N/A	N/A	N/A	N/A	0.0	84.66	84.66	Other	0	N/A	0.0	0.0
2249998	JF PD-Shooting Range/Compost Site	12/31/2004	2004	N/A	N/A	N/A	N/A	N/A	N/A	0.0	83.38	83.38	Other	0	N/A	0.0	0.0
2249998	JF PD-Shooting Range/Compost Site	12/31/2005	2005	N/A	N/A	N/A	N/A	N/A	N/A	0.0	83.82	83.82	Other	0	N/A	0.0	0.0
2249998	JF PD-Shooting Range/Compost Site	12/31/2006	2006	N/A	N/A	N/A	N/A	N/A	N/A	0.0	84.38	84.38	Other	0	N/A	0.0	0.0
2249998	JF PD-Shooting Range/Compost Site	12/31/2007	2007	N/A	N/A	N/A	N/A	N/A	N/A	0.0	84.42	84.42	Other	0	N/A	0.0	0.0
2249998	JF PD-Shooting Range/Compost Site	12/31/2008	2008	N/A	N/A	N/A	N/A	N/A	N/A	0.0	84.00	84.00	Other	0	N/A	0.0	0.0
2249998	JF PD-Shooting Range/Compost Site	12/31/2009	2009	N/A	N/A	N/A	N/A	N/A	N/A	0.0	83.20	83.20	Other	0	N/A	0.0	0.0

'Buildings pivot' Tab

City	(All)
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Row Labels	Sum of Electric Use (kWh)	Sum of Natural Gas Use (therms)	Sum of Non-kWh/therm Use (kBtu)	Sum of Annual Energy Cost (US Dollars (\$))
2002	0	0	0	15564.805
2003	710193	69887.95	-4483.166	98770.69
2004	692749.3	64872.6	4.2884	100115.96
2005	735786.9	55081.55	-8.752800001	105632.89
2006	710052.5	49976.35	13.32	102748.57
2007	756058.6	57794.75	-0.8432	116015.345
2008	738612.2	62946.65	-1.3264	132214.275
2009	687532.9	64531.15	-0.8548	116120.065
Grand Total	5030985.4	425091	-4477.3348	787182.6

2010 Wisconsin Energy Independent Community Partnership

'Water' Tab

*Columns were deleted that contained redundant information or had zero values.

Building ID	Facility Name	Period Ending Date	Year	Original Electric Use (kWh)	Electric Use (kWh)	Original Natural Gas Use -therms	Natural Gas Use (therms)	Original Site Energy Use (kBtu)	Site Energy Use (kBtu)	Non-kWh/therm Use (kBtu)	Original Annual Energy Cost (US Dollars (\$))	Annual Energy Cost (US Dollars (\$))	Facility Type	Current Total Floor space (Sq. Ft.)	Direct GHG Emissions (MtCO2e)	Site EUI (kBtu/Sq. Ft.)	Weather Normalized Site EUI (kBtu/Sq. Ft.)	Special Jefferson flag
2236072	JF Wastewater Treatment Plant	12/31/2002	2002	N/A	N/A	N/A	N/A	N/A	N/A	0.0	4,110.76	4,110.76	Wastewater	0	N/A	0.0	0.0	WASTEWATER
2236072	JF Wastewater Treatment Plant	12/31/2003	2003	N/A	N/A	N/A	N/A	N/A	N/A	0.0	74,886.69	74,886.69	Wastewater	0	N/A	0.0	0.0	WASTEWATER
2236072	JF Wastewater Treatment Plant	12/31/2004	2004	1,335,049.4	1,335,049.4	16,829.3	16,829.3	6,238,114.3	6,238,114.3	-4.3	80,414.30	80,414.30	Wastewater	0	89.53	0.0	0.0	WASTEWATER
2236072	JF Wastewater Treatment Plant	12/31/2005	2005	1,173,636.3	1,173,636.3	15,150.0	15,150.0	5,519,451.7	5,519,451.7	4.6	83,337.30	83,337.30	Wastewater	0	80.60	0.0	0.0	WASTEWATER
2236072	JF Wastewater Treatment Plant	12/31/2006	2006	1,281,016.1	1,281,016.1	12,462.4	12,462.4	5,617,062.0	5,617,062.0	-4.9	86,802.73	86,802.73	Wastewater	0	66.30	0.0	0.0	WASTEWATER
2236072	JF Wastewater Treatment Plant	12/31/2007	2007	1,254,138.2	1,254,138.2	14,878.8	14,878.8	5,766,995.4	5,766,995.4	-4.1	95,152.45	95,152.45	Wastewater	0	79.16	0.0	0.0	WASTEWATER
2236072	JF Wastewater Treatment Plant	12/31/2008	2008	1,392,480.0	1,392,480.0	17,174.7	17,174.7	6,468,608.9	6,468,608.9	-2.9	117,403.25	117,403.25	Wastewater	0	91.37	0.0	0.0	WASTEWATER
2236072	JF Wastewater Treatment Plant	12/31/2009	2009	1,253,746.3	1,253,746.3	15,138.8	15,138.8	5,791,664.5	5,791,664.5	2.1	104,894.90	104,894.90	Wastewater	0	80.54	0.0	0.0	WASTEWATER
2247673	JF Lift Station #1	12/31/2002	2002	N/A	N/A	N/A	N/A	N/A	N/A	0.0	7.34	7.34	Other	28	N/A	N/A	N/A	WASTEWATER
2247673	JF Lift Station #1	12/31/2003	2003	792.9	792.9	0.0	0.0	2,705.5	2,705.5	0.1	196.27	196.27	Other	28	N/A	96.6	96.6	WASTEWATER
2247673	JF Lift Station #1	12/31/2004	2004	1,239.2	1,239.2	0.0	0.0	4,228.0	4,228.0	-0.2	228.40	228.40	Other	28	N/A	151.0	151.0	WASTEWATER
2247673	JF Lift Station #1	12/31/2005	2005	908.8	908.8	0.0	0.0	3,101.0	3,101.0	0.2	212.37	212.37	Other	28	N/A	110.7	110.7	WASTEWATER
2247673	JF Lift Station #1	12/31/2006	2006	930.8	930.8	0.0	0.0	3,175.8	3,175.8	-0.1	215.12	215.12	Other	28	N/A	113.4	113.4	WASTEWATER
2247673	JF Lift Station #1	12/31/2007	2007	1,043.0	1,043.0	0.0	0.0	3,558.8	3,558.8	0.1	230.08	230.08	Other	28	N/A	127.1	127.1	WASTEWATER
2247673	JF Lift Station #1	12/31/2008	2008	1,226.5	1,226.5	0.0	0.0	4,184.9	4,184.9	0.1	254.82	254.82	Other	28	N/A	149.5	149.5	WASTEWATER
2247673	JF Lift Station #1	12/31/2009	2009	1,065.7	1,065.7	0.0	0.0	3,636.1	3,636.1	-0.1	254.83	254.83	Other	28	N/A	129.9	129.9	WASTEWATER
2247676	JF Lift Station #2	12/31/2002	2002	N/A	N/A	N/A	N/A	N/A	N/A	0.0	25.81	25.81	Other	28	N/A	N/A	N/A	WASTEWATER
2247676	JF Lift Station #2	12/31/2003	2003	7,990.5	7,990.5	0.0	0.0	27,263.5	27,263.5	-0.1	674.36	674.36	Other	28	N/A	973.7	973.7	WASTEWATER
2247676	JF Lift Station #2	12/31/2004	2004	9,172.1	9,172.1	0.0	0.0	31,295.2	31,295.2	0.0	775.94	775.94	Other	28	N/A	1,117.7	1,112.0	WASTEWATER
2247676	JF Lift Station #2	12/31/2005	2005	9,348.8	9,348.8	0.0	0.0	31,898.0	31,898.0	-0.1	850.79	850.79	Other	28	N/A	1,139.2	1,139.2	WASTEWATER
2247676	JF Lift Station #2	12/31/2006	2006	11,051.8	11,051.8	0.0	0.0	37,708.7	37,708.7	0.0	989.10	989.10	Other	28	N/A	1,346.7	1,320.1	WASTEWATER
2247676	JF Lift Station #2	12/31/2007	2007	13,464.2	13,464.2	0.0	0.0	45,940.0	45,940.0	0.1	1,257.77	1,257.77	Other	28	N/A	1,640.7	1,618.6	WASTEWATER
2247676	JF Lift Station #2	12/31/2008	2008	15,562.6	15,562.6	0.0	0.0	53,099.7	53,099.7	0.1	1,534.33	1,534.33	Other	28	N/A	1,896.4	1,889.0	WASTEWATER
2247676	JF Lift Station #2	12/31/2009	2009	15,263.5	15,263.5	0.0	0.0	52,079.2	52,079.2	0.1	1,556.37	1,556.37	Other	28	N/A	1,860.0	1,860.0	WASTEWATER
2247678	JF Lift Station #3	12/31/2002	2002	N/A	N/A	N/A	N/A	N/A	N/A	0.0	7.02	7.02	Other	144	N/A	N/A	N/A	WASTEWATER
2247678	JF Lift Station #3	12/31/2003	2003	1,428.9	1,428.9	0.0	0.0	4,875.5	4,875.5	0.1	178.62	178.62	Other	144	N/A	33.9	33.9	WASTEWATER
2247678	JF Lift Station #3	12/31/2004	2004	1,684.4	1,684.4	0.0	0.0	5,747.1	5,747.1	-0.1	200.18	200.18	Other	144	N/A	39.9	40.1	WASTEWATER
2247678	JF Lift Station #3	12/31/2005	2005	1,380.2	1,380.2	0.0	0.0	4,709.4	4,709.4	0.2	188.16	188.16	Other	144	N/A	32.7	32.7	WASTEWATER
2247678	JF Lift Station #3	12/31/2006	2006	1,379.9	1,379.9	0.0	0.0	4,708.4	4,708.4	0.2	189.43	189.43	Other	144	N/A	32.7	31.9	WASTEWATER
2247678	JF Lift Station #3	12/31/2007	2007	1,494.0	1,494.0	0.0	0.0	5,097.6	5,097.6	0.1	206.51	206.51	Other	144	N/A	35.4	36.0	WASTEWATER
2247678	JF Lift Station #3	12/31/2008	2008	1,484.4	1,484.4	0.0	0.0	5,064.7	5,064.7	-0.1	215.38	215.38	Other	144	N/A	35.2	35.2	WASTEWATER
2247678	JF Lift Station #3	12/31/2009	2009	1,312.7	1,312.7	0.0	0.0	4,478.9	4,478.9	0.0	204.70	204.70	Other	144	N/A	31.1	31.1	WASTEWATER
2247680	JF Lift Station #4	12/31/2002	2002	N/A	N/A	N/A	N/A	N/A	N/A	0.0	7.64	7.64	Other	28	N/A	N/A	N/A	WASTEWATER
2247680	JF Lift Station #4	12/31/2003	2003	1,588.2	1,588.2	0.0	0.0	5,418.9	5,418.9	0.0	189.06	189.06	Other	28	N/A	193.5	193.5	WASTEWATER
2247680	JF Lift Station #4	12/31/2004	2004	1,833.2	1,833.2	0.0	0.0	6,254.8	6,254.8	-0.1	209.65	209.65	Other	28	N/A	223.4	223.4	WASTEWATER
2247680	JF Lift Station #4	12/31/2005	2005	1,799.4	1,799.4	0.0	0.0	6,139.7	6,139.7	0.1	220.19	220.19	Other	28	N/A	219.3	221.5	WASTEWATER
2247680	JF Lift Station #4	12/31/2006	2006	2,152.3	2,152.3	0.0	0.0	7,343.6	7,343.6	0.0	248.59	248.59	Other	28	N/A	262.3	262.3	WASTEWATER
2247680	JF Lift Station #4	12/31/2007	2007	2,570.4	2,570.4	0.0	0.0	8,770.2	8,770.2	0.0	294.14	294.14	Other	28	N/A	313.2	317.1	WASTEWATER
2247680	JF Lift Station #4	12/31/2008	2008	2,706.2	2,706.2	0.0	0.0	9,233.5	9,233.5	-0.1	323.59	323.59	Other	28	N/A	329.8	329.8	WASTEWATER
2247680	JF Lift Station #4	12/31/2009	2009	2,349.9	2,349.9	0.0	0.0	8,017.8	8,017.8	-0.1	299.45	299.45	Other	28	N/A	286.4	286.1	WASTEWATER
2247681	JF Lift Station #5	12/31/2002	2002	N/A	N/A	N/A	N/A	N/A	N/A	0.0	0.66	0.66	Other	28	N/A	N/A	N/A	WASTEWATER
2247681	JF Lift Station #5	12/31/2003	2003	2,180.6	2,180.6	0.0	0.0	7,440.2	7,440.2	0.0	288.87	288.87	Other	28	N/A	265.7	265.7	WASTEWATER
2247681	JF Lift Station #5	12/31/2004	2004	2,204.9	2,204.9	0.0	0.0	7,523.0	7,523.0	-0.1	295.23	295.23	Other	28	N/A	268.7	271.5	WASTEWATER
2247681	JF Lift Station #5	12/31/2005	2005	2,411.6	2,411.6	0.0	0.0	8,228.4	8,228.4	0.0	326.50	326.50	Other	28	N/A	293.9	293.9	WASTEWATER
2247681	JF Lift Station #5	12/31/2006	2006	2,865.2	2,865.2	0.0	0.0	9,776.1	9,776.1	0.0	363.52	363.52	Other	28	N/A	349.1	349.1	WASTEWATER
2247681	JF Lift Station #5	12/31/2007	2007	3,623.2	3,623.2	0.0	0.0	12,362.2	12,362.2	-0.2	442.73	442.73	Other	28	N/A	441.5	441.5	WASTEWATER
2247681	JF Lift Station #5	12/31/2008	2008	3,300.4	3,300.4	0.0	0.0	11,260.9	11,260.9	-0.1	436.87	436.87	Other	28	N/A	402.2	402.2	WASTEWATER
2247681	JF Lift Station #5	12/31/2009	2009	3,187.8	3,187.8	0.0	0.0	10,876.8	10,876.8	0.0	448.45	448.45	Other	28	N/A	388.5	388.5	WASTEWATER

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'Water' Tab (Continued)

*Columns were deleted that contained redundant information or had zero values.

Build- ing ID	Facility Name	Period Ending Date	Year	Original Electric Use (kWh)	Electric Use (kWh)	Original Natural Gas Use -therms	Natural Gas Use (therms)	Original Site Energy Use (kBtu)	Site Energy Use (kBtu)	Non- kWh/ therm Use (kBtu)	Original Annual Energy Cost (US Dollars (\$))	Annual Energy Cost (US Dollars (\$))	Facility Type	Current Total Floor space (Sq. Ft.)	Direct GHG Emissions (MtCO2e)	Site EUI (kBtu/Sq. Ft.)	Weather Normalized Site EUI (kBtu/Sq. Ft.)	Special Jefferson flag
2263929	JF Well #2	12/31/2003	2003	198,528.0	198,528.0	0.0	0.0	677,377.5	677,377.5	0.0	14,589.88	14,589.88	Water Treatment	0	N/A	0.0	0.0	WATER
2263929	JF Well #2	12/31/2004	2004	248,448.0	248,448.0	0.0	0.0	847,704.6	847,704.6	0.0	16,250.86	16,250.86	Water Treatment	0	N/A	0.0	0.0	WATER
2263929	JF Well #2	12/31/2005	2005	248,064.0	248,064.0	0.0	0.0	846,394.4	846,394.4	0.0	16,292.78	16,292.78	Water Treatment	0	N/A	0.0	0.0	WATER
2263929	JF Well #2	12/31/2006	2006	237,120.0	237,120.0	0.0	0.0	809,053.4	809,053.4	0.0	16,101.80	16,101.80	Water Treatment	0	N/A	0.0	0.0	WATER
2263929	JF Well #2	12/31/2007	2007	236,544.0	236,544.0	0.0	0.0	807,088.1	807,088.1	0.0	15,408.43	15,408.43	Water Treatment	0	N/A	0.0	0.0	WATER
2263929	JF Well #2	12/31/2008	2008	205,056.0	205,056.0	0.0	0.0	699,651.1	699,651.1	0.0	14,451.41	14,451.41	Water Treatment	0	N/A	0.0	0.0	WATER
2263929	JF Well #2	12/31/2009	2009	141,504.0	141,504.0	0.0	0.0	482,811.6	482,811.6	0.0	11,909.08	11,909.08	Water Treatment	0	N/A	0.0	0.0	WATER
2263933	JF Well #3	12/31/2003	2003	92,989.0	92,989.0	0.0	0.0	317,278.5	317,278.5	0.0	6,881.23	6,881.23	Water Treatment	0	N/A	0.0	0.0	WATER
2263933	JF Well #3	12/31/2004	2004	90,010.0	90,010.0	0.0	0.0	307,114.1	307,114.1	0.0	6,672.70	6,672.70	Water Treatment	0	N/A	0.0	0.0	WATER
2263933	JF Well #3	12/31/2005	2005	101,626.0	101,626.0	0.0	0.0	346,747.9	346,747.9	0.0	7,485.82	7,485.82	Water Treatment	0	N/A	0.0	0.0	WATER
2263933	JF Well #3	12/31/2006	2006	102,665.0	102,665.0	0.0	0.0	350,293.0	350,293.0	0.0	7,558.55	7,558.55	Water Treatment	0	N/A	0.0	0.0	WATER
2263933	JF Well #3	12/31/2007	2007	98,202.0	98,202.0	0.0	0.0	335,065.2	335,065.2	0.0	7,246.14	7,246.14	Water Treatment	0	N/A	0.0	0.0	WATER
2263933	JF Well #3	12/31/2008	2008	95,712.0	95,712.0	0.0	0.0	326,569.3	326,569.3	0.0	7,071.84	7,071.84	Water Treatment	0	N/A	0.0	0.0	WATER
2263933	JF Well #3	12/31/2009	2009	153,097.0	153,097.0	0.0	0.0	522,367.0	522,367.0	0.0	13,883.45	13,883.45	Water Treatment	0	N/A	0.0	0.0	WATER
2263940	JF Well #4	12/31/2003	2003	202,485.0	202,485.0	0.0	0.0	690,878.8	690,878.8	0.0	14,290.56	14,290.56	Water Treatment	0	N/A	0.0	0.0	WATER
2263940	JF Well #4	12/31/2004	2004	218,517.0	218,517.0	0.0	0.0	745,580.0	745,580.0	0.0	15,088.41	15,088.41	Water Treatment	0	N/A	0.0	0.0	WATER
2263940	JF Well #4	12/31/2005	2005	212,520.0	212,520.0	0.0	0.0	725,118.2	725,118.2	0.0	14,572.44	14,572.44	Water Treatment	0	N/A	0.0	0.0	WATER
2263940	JF Well #4	12/31/2006	2006	209,811.0	209,811.0	0.0	0.0	715,875.1	715,875.1	0.0	14,709.87	14,709.87	Water Treatment	0	N/A	0.0	0.0	WATER
2263940	JF Well #4	12/31/2007	2007	209,705.0	209,705.0	0.0	0.0	715,513.5	715,513.5	0.0	15,155.38	15,155.38	Water Treatment	0	N/A	0.0	0.0	WATER
2263940	JF Well #4	12/31/2008	2008	194,953.0	194,953.0	0.0	0.0	665,179.6	665,179.6	0.0	14,180.88	14,180.88	Water Treatment	0	N/A	0.0	0.0	WATER
2263940	JF Well #4	12/31/2009	2009	151,011.0	151,011.0	0.0	0.0	515,249.5	515,249.5	0.0	14,976.43	14,976.43	Water Treatment	0	N/A	0.0	0.0	WATER
2263953	JF Well #5	12/31/2003	2003	269,926.0	269,926.0	0.0	0.0	920,987.5	920,987.5	0.0	16,636.10	16,636.10	Water Treatment	0	N/A	0.0	0.0	WATER
2263953	JF Well #5	12/31/2004	2004	236,671.0	236,671.0	0.0	0.0	807,521.5	807,521.5	0.0	15,703.18	15,703.18	Water Treatment	0	N/A	0.0	0.0	WATER
2263953	JF Well #5	12/31/2005	2005	208,136.0	208,136.0	0.0	0.0	710,160.0	710,160.0	0.0	14,277.68	14,277.68	Water Treatment	0	N/A	0.0	0.0	WATER
2263953	JF Well #5	12/31/2006	2006	197,931.0	197,931.0	0.0	0.0	675,340.6	675,340.6	0.0	14,195.71	14,195.71	Water Treatment	0	N/A	0.0	0.0	WATER
2263953	JF Well #5	12/31/2007	2007	189,013.0	189,013.0	0.0	0.0	644,912.4	644,912.4	0.0	13,931.22	13,931.22	Water Treatment	0	N/A	0.0	0.0	WATER
2263953	JF Well #5	12/31/2008	2008	202,742.0	202,742.0	0.0	0.0	691,755.7	691,755.7	0.0	14,429.25	14,429.25	Water Treatment	0	N/A	0.0	0.0	WATER
2263953	JF Well #5	12/31/2009	2009	258,327.0	258,327.0	0.0	0.0	881,411.7	881,411.7	0.0	21,480.07	21,480.07	Water Treatment	0	N/A	0.0	0.0	WATER
2245854	JF Jefferson Utilities/ Police Department	12/31/2002	2002	N/A	N/A	N/A	N/A	N/A	N/A	0.0	0.00	0.00	Office	16,851	N/A	N/A	N/A	WATER
2245854	JF Jefferson Utilities/ Police Department	12/31/2003	2003	251,667.0	251,667.0	21,913.2	21,913.2	3,039,975.7	3,039,975.7	-10,027.2	0.00	0.00	Office	16,851	233.16	360.8	362.6	WATER
2245854	JF Jefferson Utilities/ Police Department	12/31/2004	2004	252,336.0	252,336.0	19,717.5	19,717.5	2,832,722.1	2,832,722.1	1.7	0.00	0.00	Office	16,851	209.79	336.2	349.7	WATER
2245854	JF Jefferson Utilities/ Police Department	12/31/2005	2005	276,624.0	276,624.0	16,734.2	16,734.2	2,617,255.8	2,617,255.8	-0.3	0.00	0.00	Office	16,851	178.05	310.6	315.0	WATER
2245854	JF Jefferson Utilities/ Police Department	12/31/2006	2006	251,808.0	251,808.0	14,360.4	14,360.4	2,295,205.7	2,295,205.7	1.8	0.00	0.00	Office	16,851	152.79	272.4	284.3	WATER
2245854	JF Jefferson Utilities/ Police Department	12/31/2007	2007	275,520.0	275,520.0	16,904.7	16,904.7	2,630,537.5	2,630,537.5	-1.7	0.00	0.00	Office	16,851	179.87	312.2	311.6	WATER
2245854	JF Jefferson Utilities/ Police Department	12/31/2008	2008	263,712.0	263,712.0	16,506.8	16,506.8	2,550,461.2	2,550,461.2	0.9	0.00	0.00	Office	16,851	175.63	302.7	297.6	WATER
2245854	JF Jefferson Utilities/ Police Department	12/31/2009	2009	255,264.0	255,264.0	16,994.5	16,994.5	2,570,405.0	2,570,405.0	-0.8	0.00	0.00	Office	16,851	180.82	305.1	306.4	WATER

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'Water pivot' Tab

Special
Jefferson
flag

(All)

Values

Row Labels	Sum of Electric Use (kWh)	Sum of Natural Gas Use (therms)	Sum of Non- kWh/therm Use (kBtu)	Sum of Annual Energy Cost (US Dollars (\$))
2002	0	0	0	4159.23
2003	1029576.1	21913.15	-10027.1032	128811.64
2004	2397165.2	36546.8	-2.9624	135838.85
2005	2236455.1	31884.15	4.6488	137764.03
2006	2298731.1	26822.75	-3.1632	141374.42
2007	2285317	31783.45	-5.704	149324.85
2008	2378935.1	33681.45	-2.061199999	170301.62
2009	2236128.9	32133.25	1.2932	169907.73
Grand Total	14862308.5	214765	-10035.052	1037482.37

		<u>kWh</u>	therms	MMBTUs	% Wastewater	
Wastewater	2003	13981.1	0	48	1%	
	2004	1351183.2	16829.3	6293	53%	
	2005	1189485.1	15150	5574	52%	Ave. % Wastewater
	2006	1299396.1	12462.4	5680	54%	54% 2004-2009
	2007	1276333	14878.8	5843	53%	
	2008	1416760.1	17174.7	6552	57%	
	2009	1276925.9	15138.8	5871	54%	
Water	2003	1015595	21913.15	5657		
	2004	1045982	19717.5	5541		
	2005	1046970	16734.15	5246		
	2006	999335	14360.35	4846		
	2007	1008984	16904.65	5133		
	2008	962175	16506.75	4934		
	2009	959203	16994.45	4972		

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2010 Wisconsin Energy Independent Community Partnership

'Lights' Tab

*Columns were deleted that contained redundant information or had zero values.

Building ID	Facility Name	Period Ending Date	Year	Electric Use (kWh)	Natural Gas Use (therms)	Site Energy Use (kBtu)	Non-kWh/therm Use (kBtu)	Annual Energy Cost (US Dollars (\$))	Facility Type	Current Total Floor space (Sq. Ft.)	Direct GHG Emissions (MtCO2e)	Facility Owner	Site EUI (kBtu/Sq. Ft.)	Weather Normalized Site EUI (kBtu/Sq. Ft.)
2245908	JF North Street Bridge Lights	12/31/2004	2004	2,696.9	0.0	9,201.8	0.0	277.98	Other	0	N/A	N/A	0.0	0.0
2245908	JF North Street Bridge Lights	12/31/2005	2005	2,371.6	0.0	8,091.8	-0.1	263.81	Other	0	N/A	N/A	0.0	0.0
2245908	JF North Street Bridge Lights	12/31/2006	2006	2,048.6	0.0	6,989.7	-0.1	240.95	Other	0	N/A	N/A	0.0	0.0
2245908	JF North Street Bridge Lights	12/31/2007	2007	2,246.7	0.0	7,665.8	0.1	267.59	Other	0	N/A	N/A	0.0	0.0
2245908	JF North Street Bridge Lights	12/31/2008	2008	1,386.8	0.0	4,731.9	0.1	205.82	Other	0	N/A	N/A	0.0	0.0
2245908	JF North Street Bridge Lights	12/31/2009	2009	1,291.0	0.0	4,404.9	0.0	202.51	Other	0	N/A	N/A	0.0	0.0
2245935	JF Fischer Field Lights	12/31/2002	2002	N/A	N/A	N/A	0.0	312.17	Other	1,675	N/A	N/A	N/A	N/A
2245935	JF Fischer Field Lights	12/31/2003	2003	7,603.8	0.0	25,944.0	-0.2	576.24	Other	1,675	N/A	N/A	15.5	15.5
2245935	JF Fischer Field Lights	12/31/2004	2004	8,060.0	0.0	27,500.7	0.0	620.99	Other	1,675	N/A	N/A	16.4	16.4
2245935	JF Fischer Field Lights	12/31/2005	2005	10,948.0	0.0	37,354.6	0.0	963.53	Other	1,675	N/A	N/A	22.3	25.6
2245935	JF Fischer Field Lights	12/31/2006	2006	11,344.7	0.0	38,708.2	0.1	959.68	Other	1,675	N/A	N/A	23.1	23.1
2245935	JF Fischer Field Lights	12/31/2007	2007	12,527.3	0.0	42,743.1	0.0	1,098.67	Other	1,675	N/A	N/A	25.5	25.5
2245935	JF Fischer Field Lights	12/31/2008	2008	12,720.0	0.0	43,400.6	0.0	1,195.72	Other	1,675	N/A	N/A	25.9	25.9
2245935	JF Fischer Field Lights	12/31/2009	2009	11,195.4	0.0	38,198.8	0.1	1,168.04	Other	1,675	N/A	N/A	22.8	22.8
2246096	JF Riverfront Park, Playground Security Lighting	12/31/2006	2006	N/A	N/A	N/A	0.0	418.75	Other	0	N/A	N/A	0.0	0.0
2246096	JF Riverfront Park, Playground Security Lighting	12/31/2007	2007	6,701.9	0.0	22,867.0	0.1	630.09	Other	0	N/A	N/A	0.0	0.0
2246096	JF Riverfront Park, Playground Security Lighting	12/31/2008	2008	3,305.2	0.0	11,277.5	0.2	374.57	Other	0	N/A	N/A	0.0	0.0
2246096	JF Riverfront Park, Playground Security Lighting	12/31/2009	2009	5,348.5	0.0	18,249.2	0.1	577.11	Other	0	N/A	N/A	0.0	0.0
CH-LO1	Sodium Vapor Streets Lights (charges do not include maintenance charges)	12/31/2003	2003	684,200				\$77,622	Other			N/A		
CH-LO1	Sodium Vapor Streets Lights (charges do not include maintenance charges)	12/31/2004	2004	709,061				\$82,344	Other			N/A		
CH-LO1	Sodium Vapor Streets Lights (charges do not include maintenance charges)	12/31/2005	2005	760,001				\$91,085	Other			N/A		
CH-LO1	Sodium Vapor Streets Lights (charges do not include maintenance charges)	12/31/2006	2006	745,568				\$91,048	Other			N/A		
CH-LO1	Sodium Vapor Streets Lights (charges do not include maintenance charges)	12/31/2007	2007	667,916				\$91,633	Other			N/A		
CH-LO1	Sodium Vapor Streets Lights (charges do not include maintenance charges)	12/31/2008	2008	666,933				\$95,537	Other			N/A		
CH-LO1	Sodium Vapor Streets Lights (charges do not include maintenance charges)	12/31/2009	2009	781,538				\$110,436	Other			N/A		

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'Lights pivot' Tab

City	(All)			
Values				
Row Labels (blank)	Sum of Electric Use (kWh)	Sum of Natural Gas Use (therms)	Sum of Non-kWh/therm Use (kBtu)	Sum of Annual Energy Cost (US Dollars (\$))
2003	691803.8	0	-0.1656	78197.89
2004	719817.9	0	-0.0428	83242.96
2005	773320.6	0	-0.0752	92312.53
2006	758961.3	0	-0.0396	92667.61
2007	689391.9	0	0.1292	93629.07
2008	684345	0	0.256	97313.23
2009	799372.9	0	0.2212	112383.2
2002	0	0	0	312.17
Grand Total	5117013.4	0	0.2832	650058.66

'Fleet' Tab

Fleet information

Fleet ID	Vehicle type/category	Category	Make	Model	Fuel type	Options	2005	2006	2007	2008	2009
CH-F01	Streets - Key 0001 (#1)/Off - Road	Stre	1992 Case	Loader Backhoe	Diesel	Mileage	0	0	0	0	0
					Diesel	Vehicle hours	0	42	33	105	68
					Diesel	Gallons or kWh	54	78	154	168	93
					Diesel	Fuel \$	\$135	\$205	\$431	\$484	\$213
CH-F02	Streets - Key 0002 (#3)	Stre	2002 Inter-national	Dump Truck	Diesel	Mileage	0	4,161	3,489	5,722	3,700
					Diesel	Vehicle hours	0	0	0	0	0
					Diesel	Gallons or kWh	720	631	873	1,266	786
					Diesel	Fuel \$	\$1,736	\$1,668	\$2,400	\$1,266	\$1,724
CH-F03	Streets - Key 0003 (#5)	Stre	1999 Inter-national	Dump Truck	Diesel	Mileage	0	3,355	5,074	5,288	2,142
					Diesel	Vehicle hours	0	0	0	0	0
					Diesel	Gallons or kWh	395	503	1,171	1,199	549
					Diesel	Fuel \$	\$956	\$1,355	\$3,165	\$3,630	\$1,188
CH-F04	Streets - Key 0004 (#6)	Stre	1992 GMC	Top Kick	Diesel	Mileage	0	2,639	2,218	3,175	2,768
					Diesel	Vehicle hours	0	0	0	0	0
					Diesel	Gallons or kWh	408	421	411	563	511
					Diesel	Fuel \$	\$166	\$1,098	\$1,113	\$1,854	\$1,087
CH-F05	Streets - Key 0005 (#7)	Stre	2006 Inter-national	Dump Truck	Diesel	Mileage	0	3,983	7,917	7,741	6,059
					Diesel	Vehicle hours	0	0	0	0	0
					Diesel	Gallons or kWh	258	556	1,541	1,605	1,206
					Diesel	Fuel \$	\$619	\$1,435	\$4,255	\$5,162	\$2,640
CH-F06	Streets - Key 0006 (#8)	Stre	1988 GMC	Dump Truck	Diesel	Mileage	0	0	0	133	0
					Diesel	Vehicle hours	0	0	0	0	0
					Diesel	Gallons or kWh	31	0	0	28	0
					Diesel	Fuel \$	\$66	\$0	\$0	\$104	\$0

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'Fleet' Tab (Continued)

Fleet ID	Vehicle type/ category	Category	Make	Model	Fuel type	Options	2005	2006	2007	2008	2009
CH-F07	Streets - Key 0007 (#9)	Stre	2005 Chevrolet	Dump Truck	Unleaded	Mileage	0	3,456	3,766	3,189	3,667
					Unleaded	Vehicle hours	0	0	0	0	
					Unleaded	Gallons or kWh	209	389	418	368	455
					Unleaded	Fuel \$	\$452	\$970	\$1,121	\$1,145	\$980
CH-F08	Streets - Key 0008 (#10)	Stre	1997 Chevrolet	Pick Up Truck	Unleaded	Mileage	0	4,681	4,054	5,188	3,804
					Unleaded	Vehicle hours	0	0	0	0	0
					Unleaded	Gallons or kWh	144	399	394	462	371
					Unleaded	Fuel \$	\$329	\$986	\$1,022	\$1,408	\$830
CH-F09	Key 0044	Key			OTHER	Mileage	0	0	0	0	0
					OTHER	Vehicle hours	0	0	0	0	0
					OTHER	Gallons or kWh	0	0	0	0	0
					OTHER	Fuel \$	\$0	\$0	\$0	\$0	\$0
CH-F10	Streets - Key 0010 (#12)	Stre	1997 International	Dump Truck	Diesel	Mileage	0	5,166	6,209	5,879	3,132
					Diesel	Vehicle hours	0	0	0	0	0
					Diesel	Gallons or kWh	252	550	1,022	972	560
					Diesel	Fuel \$	\$628	\$1,451	\$2,834	\$2,967	\$1,198
CH-F11	Streets - Key 0011 (#13)	Stre	2000 Chevrolet	1 Ton Pick Up Truck	Unleaded	Mileage	0	3,433	3,576	3,968	3,400
					Unleaded	Vehicle hours	0	0	0	0	0
					Unleaded	Gallons or kWh	186	375	464	399	407
					Unleaded	Fuel \$	\$403	\$943	\$1,236	\$1,236	\$924
CH-F12	Streets - Key 0012 (#14) Off - Road	Stre	1987 John Deere	672 B Grader	Diesel	Mileage	0	0	0	0	0
					Diesel	Vehicle hours	0	151	139	99	75
					Diesel	Gallons or kWh	208	207	288	206	149
					Diesel	Fuel \$	\$483	\$559	\$811	\$682	\$318
CH-F13	Streets - Key 0013 (#15) Off - Road	Stre	John Deere	Tractor Loader Backhoe	Diesel	Mileage	0	0	0	0	0
					Diesel	Vehicle hours	0	385	312	373	337
					Diesel	Gallons or kWh	201	503	457	527	522
					Diesel	Fuel \$	\$476	\$1,311	\$1,239	\$1,873	\$1,151
CH-F14	Streets - Key 0014 (#16) Off - Road	Stre	1993 Elgin	Sweeper	Diesel	Mileage	0	0	0	0	0
					Diesel	Vehicle hours	0	390	325	398	161
					Diesel	Gallons or kWh	292	595	505	622	270
					Diesel	Fuel \$	\$701	\$1,564	\$1,394	\$2,478	\$534
CH-F15	Streets - Key 0015 (#17)	Stre	2000 Chevrolet	¾ Ton Pick Up Truck	Unleaded	Mileage	0	6,947	7,508	6,330	3,591
					Unleaded	Vehicle hours	0	0	0	0	0
					Unleaded	Gallons or kWh	265	504	597	481	328
					Unleaded	Fuel \$	\$578	\$1,250	\$1,578	\$1,494	\$672
CH-F16	Streets - Key 0016 (#22) Off - Road Truck - Gas Aux. Eng. - Diesel	Stre	1979	Leaf Machine Built In- House Snuffly	OTHER	Mileage	0	219	222	160	155
					OTHER	Vehicle hours	0	0	0	0	0
					OTHER	Gallons or kWh	403	1,014	926	794	799
					OTHER	Fuel \$	\$1,014	\$2,275	\$2,634	\$2,496	\$1,843
CH-F17	Streets - Key 0017 (#25)Off	Stre	1989 Ford	Tractor Mower	Diesel	Mileage	0	0	0	0	0
					Diesel	Vehicle hours	0	258	252	185	136
					Diesel	Gallons or kWh	148	383	388	240	286

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- Road						Diesel	Fuel \$	\$332	\$1,021	\$1,072	\$989	\$640
'Fleet' Tab (Continued)												
Fleet ID	Vehicle type/ category	Category	Make	Model	Fuel type	Options	2005	2006	2007	2008	2009	
CH-F18	Streets - Key 0018 (#26)	Stre	Sincard	Snow Blower	Diesel	Mileage	0	0	0	0	0	
					Diesel	Vehicle hours	33	78	302	54	62	
					Diesel	Gallons or kWh	12	49	378	114	165	
					Diesel	Fuel \$	\$27	\$135	\$983	\$355	\$368	
					Diesel	Mileage	0	3,414	4,863	6,889	4,555	
CH-F19	Streets - Key 0019 (#29)	Stre	2004 Inter- national	Dump Truck	Diesel	Vehicle hours	0	0	0	0	0	
					Diesel	Gallons or kWh	586	423	994	1,285	884	
					Diesel	Fuel \$	\$1,407	\$1,131	\$2,737	\$4,048	\$1,930	
					Diesel	Mileage	0	0	0	0	0	
CH-F20	Streets - Key 0021 (#43)Off - Road	Stre	1995 Morbark	Brush Chipper	Diesel	Vehicle hours	0	133	230	210	0	
					Diesel	Gallons or kWh	209	328	372	253	0	
					Diesel	Fuel \$	\$482	\$843	\$977	\$1,002	\$0	
					Unleaded	Mileage	0	427	901	70	226	
CH-F21	Streets - Key 0022 (#44)	Stre	1996 Dodge	Dakota	Unleaded	Vehicle hours	0	0	0	0	0	
					Unleaded	Gallons or kWh	24	22	55	62	40	
					Unleaded	Fuel \$	\$54	\$60	\$140	\$193	\$90	
					Unleaded	Mileage	0	0	0	0	0	
CH-F22	Streets - Key 0023 (#47)	Stre		Crack Sealer Router	Unleaded	Vehicle hours	0	0	6	0	0	
					Unleaded	Gallons or kWh	0	0	20	0	0	
					Unleaded	Fuel \$	\$0	\$0	\$54	\$0	\$0	
					Unleaded	Mileage	0	0	0	0	0	
CH-F23	Streets - Key 0024 (#50)Off - Road	Stre	2001 Clipper	Concrete Saw	Unleaded	Vehicle hours	0	24	25	13	27	
					Unleaded	Gallons or kWh	17	49	47	13	39	
					Unleaded	Fuel \$	\$42	\$127	\$127	\$45	\$90	
					Unleaded	Mileage	0	2,328	2,788	2,098	2,131	
CH-F24	Streets - Key 0025 (#55)	Stre	1994 Ford	F-250 Pick Up Truck	Unleaded	Vehicle hours	0	0	0	0	0	
					Unleaded	Gallons or kWh	122	264	289	187	237	
					Unleaded	Fuel \$	\$274	\$687	\$799	\$657	\$544	
					Diesel	Mileage	0	4,083	5,197	5,638	2,688	
CH-F25	Streets - Key 0026 (#56)	Stre	1995 Inter- national	4700 Truck	Diesel	Vehicle hours	0	0	0	0	0	
					Diesel	Gallons or kWh	583	637	1,118	1,298	651	
					Diesel	Fuel \$	\$1,375	\$1,670	\$3,078	\$3,904	\$1,411	
					Diesel	Mileage	0	0	0	0	0	
CH-F26	Streets - Key 0027 (#58)Off - Road	Stre	1994 Case	1840 Skid Steer Loader	Diesel	Vehicle hours	0	127	246	95	104	
					Diesel	Gallons or kWh	51	108	209	77	86	
					Diesel	Fuel \$	\$119	\$284	\$577	\$274	\$189	
					Diesel	Mileage	0	0	0	0	0	
CH-F27	Streets - Key 0028 (#4)	Stre	2009 Bandit	Brush Chipper	Diesel	Vehicle hours	0	0	0	0	0	
					Diesel	Gallons or kWh	0	0	0	0	0	
					Diesel	Fuel \$	\$0	\$0	\$0	\$0	\$0	
					Diesel	Mileage	0	0	0	0	0	
CH-F28	Streets - Key 0029 (#66)Off - Road	Stre	1996 Giant	Leaf Vac Machine	Diesel	Vehicle hours	0	0	25	0	26	
					Diesel	Gallons or kWh	153	0	53	0	42	
					Diesel	Fuel \$	\$438	\$0	\$160	\$0	\$104	
					Diesel	Mileage	0	0	0	0	0	

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'Fleet' Tab (Continued)

Fleet ID	Vehicle type/ category	Category	Make	Model	Fuel type	Options	2005	2006	2007	2008	2009
CH-F29	Streets - Key 0030 (#70)/Off - Road	Stre	1962	Band Wagon	Unleaded	Mileage	0	0	0	0	0
					Unleaded	Vehicle hours	0	29	58	24	39
					Unleaded	Gallons or kWh	1	10	27	13	24
					Unleaded	Fuel \$	\$2	\$26	\$75	\$45	\$58
CH-F30	Parks - Key 0034 (#PK1)/ Off - Road	Park	Massey Fer- guson	Mower & leaf mulcher	Unleaded	Mileage	0	0	0	0	0
					Unleaded	Vehicle hours	0	8	0	2	0
					Unleaded	Gallons or kWh	0	19	0	10	20
					Unleaded	Fuel \$	\$0	\$43	\$0	\$36	\$40
CH-F31	Parks - Key 0035 (#PK8)	Park	2000 Chev- rolet	¾ Ton Pick Up Truck	Unleaded	Mileage	0	5,464	8,188	3,765	6,139
					Unleaded	Vehicle hours	0	0	0	0	0
					Unleaded	Gallons or kWh	270	461	622	563	655
					Unleaded	Fuel \$	\$587	\$1,149	\$1,626	\$1,674	\$1,414
CH-F32	Streets - Key 0036 (#40)/Off - Road	Stre	2000 John Deere	End- loader	Diesel	Mileage	0	0	0	0	0
					Diesel	Vehicle hours	0	555	587	803	512
					Diesel	Gallons or kWh	535	885	717	1,353	852
					Diesel	Fuel \$	\$1,273	\$2,293	\$2,030	\$4,309	\$1,818
CH-F33	Parks - Key 0037 (#PK5)/ Off - Road	Park	1994 Ran- some	72" Deck Mower	Diesel	Mileage	0	0	0	0	0
					Diesel	Vehicle hours	0	115	48	0	0
					Diesel	Gallons or kWh	18	58	34	0	0
					Diesel	Fuel \$	\$39	\$157	\$93	\$0	\$0
CH-F34	Streets - Key 0038 (#2)	Stre	2009 Elgin	Street Sweeper Vacuum	Diesel	Mileage	0	0	0	0	0
					Diesel	Vehicle hours	0	0	0	0	0
					Diesel	Gallons or kWh	0	0	0	0	1,071
					Diesel	Fuel \$	\$0	\$0	\$0	\$0	\$2,344
CH-F35	Parks - Key 0039 (#PK7)	Park	1997 GMC	1 Ton Pick Up Truck	Unleaded	Mileage	0	800	0	1,400	2,471
					Unleaded	Vehicle hours	0	0	0	0	0
					Unleaded	Gallons or kWh	161	79	31	179	268
					Unleaded	Fuel \$	\$350	\$198	\$81	\$594	\$582
CH-F36	Parks - Key 0040 (#PK2)	Park	2001 Jacob- son	4 wheel drive Turfcat	Diesel	Mileage	0	0	0	0	0
					Diesel	Vehicle hours	0	142	172	216	97
					Diesel	Gallons or kWh	60	89	123	134	72
					Diesel	Fuel \$	\$139	\$235	\$335	\$421	\$146
CH-F37	Parks - Key 0041 (#PK39)/ Off - Road	Park	Smithco	Ball Dia- mond Machine	Unleaded	Mileage	0	0	0	0	0
					Unleaded	Vehicle hours	0	0	0	0	0
					Unleaded	Gallons or kWh	11	17	38	31	7
					Unleaded	Fuel \$	\$23	\$45	\$111	\$92	\$15
CH-F38	Parks - Key 0042 (#PK11)	Park	1989 Chev- rolet	Truck	Unleaded	Mileage	0	0	0	0	0
					Unleaded	Vehicle hours	0	0	0	0	0
					Unleaded	Gallons or kWh	169	346	240	96	209
					Unleaded	Fuel \$	\$374	\$900	\$699	\$336	\$470
CH-F39	Parks - Key 0043 (#PK27)/ Off - Road	Park	1990 Ran- some	XT 401D Tractor & Cutting Deck	Diesel	Mileage	0	0	0	0	0
					Diesel	Vehicle hours	0	47	52	10	18
					Diesel	Gallons or kWh	9	35	39	8	4
					Diesel	Fuel \$	\$23	\$99	\$101	\$33	\$9

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'Fleet' Tab (Continued)

Fleet ID	Vehicle type/ category	Category	Make	Model	Fuel type	Options	2005	2006	2007	2008	2009	
CH-F40	Key 0045	Key			OTHER	Mileage	0	0	0	0	0	
					OTHER	Vehicle hours	0	0	0	0	0	
					OTHER	Gallons or kWh	0	0	0	0	0	
					OTHER	Fuel \$	\$0	\$0	\$0	\$0	\$0	
CH-F41	WWTP - Key 0046 (#TP1)	WWTP	2009	Ford	Escape	Unleaded	Mileage	0	800	4,498	3,695	3,374
						Unleaded	Vehicle hours	0	0	0	0	0
						Unleaded	Gallons or kWh	0	114	474	400	382
						Unleaded	Fuel \$	\$0	\$240	\$1,249	\$1,241	\$814
CH-F42	WWTP - Key 0047 (#TP2)	WWTP	2000	Inter- national	Jet/Vac	Diesel	Mileage	0	0	0	0	0
						Diesel	Vehicle hours	0	0	0	0	0
						Diesel	Gallons or kWh	134	419	154	352	342
						Diesel	Fuel \$	\$312	\$1,090	\$397	\$1,412	\$723
CH-F43	WWTP - Key 0048 (#TP3)	WWTP	1999	CH & E	Filter and Pump	Diesel	Mileage	0	0	0	0	0
						Diesel	Vehicle hours	0	0	0	0	0
						Diesel	Gallons or kWh	0	10	5	0	4
						Diesel	Fuel \$	\$0	\$27	\$14	\$0	\$9
CH-F44	WWTP - Key 0049 (#TP6)/ Off - Road	WWTP	1985	Home- lite	4" Pump	Unleaded	Mileage	0	0	0	0	0
						Unleaded	Vehicle hours	0	0	0	0	0
						Unleaded	Gallons or kWh	0	0	0	0	0
						Unleaded	Fuel \$	\$0	\$0	\$0	\$0	\$0
CH-F45	WWTP Key 0050 (#TP7)/ Off - Road	WWTP	1985		Big Wheel Sludge Inject- or	Diesel	Mileage	0	0	0	0	0
						Diesel	Vehicle hours	0	376	141	197	178
						Diesel	Gallons or kWh	164	338	592	895	719
						Diesel	Fuel \$	\$421	\$875	\$1,711	\$3,552	\$1,465
CH-F46	WWTP - Key 0051 (#TP12)	WWTP	1992	Dodge	Pick Up Truck	Unleaded	Mileage	0	1,999	0	2,128	0
						Unleaded	Vehicle hours	0	0	0	0	0
						Unleaded	Gallons or kWh	144	321	424	387	358
						Unleaded	Fuel \$	\$325	\$793	\$1,132	\$1,212	\$789
CH-F47	WWTP - Key 0052 (#TP13)	WWTP	2005	Econo- line	Van	Unleaded	Mileage	0	0	0	0	0
						Unleaded	Vehicle hours	0	0	0	0	0
						Unleaded	Gallons or kWh	30	72	68	60	59
						Unleaded	Fuel \$	\$61	\$171	\$176	\$215	\$138
CH-F48	WWTP - Key 0053 (#TP14)/ Off - Road	WWTP	1997	Wacker	Gen- erator	Diesel	Mileage	0	0	0	0	0
						Diesel	Vehicle hours	0	0	0	0	0
						Diesel	Gallons or kWh	0	0	0	12	0
						Diesel	Fuel \$	\$0	\$0	\$0	\$43	\$0
CH-F49	WWTP - Key 0054 (#TP17)	WWTP	1994	Ford	Crown Victoria	Unleaded	Mileage	0	4,109	2,488	3,201	4,130
						Unleaded	Vehicle hours	0	0	0	0	0
						Unleaded	Gallons or kWh	73	211	178	156	369
						Unleaded	Fuel \$	\$168	\$510	\$451	\$495	\$929
CH-F50	Utilities - Key 0055 (#WE1)	Util	2003	Ford	Taurus	Unleaded	Mileage	0	6,851	6,791	6,240	5,100
						Unleaded	Vehicle hours	0	0	0	0	0
						Unleaded	Gallons or kWh	131	281	311	248	248
						Unleaded	Fuel \$	\$286	\$686	\$809	\$766	\$519

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'Fleet' Tab (Continued)

Fleet ID	Vehicle type/ category	Category	Make	Model	Fuel type	Options	2005	2006	2007	2008	2009	
CH-F51	Utilities - Key 0056 (#WE10)	Util	2003	Ford	F450 Pick Up/ Dump	Unleaded	Mileage	0	2,382	2,990	4,769	5,264
						Unleaded	Vehicle hours	0	0	0	0	0
						Unleaded	Gallons or kWh	179	479	581	806	947
						Unleaded	Fuel \$	\$370	\$1,151	\$1,505	\$2,341	\$1,973
CH-F52	Utilities - Key 0057 (#WE3)	Util	1999	Ford	Cab/ Chassis Small Bucket	Diesel	Mileage	0	4,448	4,214	4,697	4,943
						Diesel	Vehicle hours	0	0	0	0	0
						Diesel	Gallons or kWh	409	826	917	846	982
						Diesel	Fuel \$	\$987	\$2,137	\$2,474	\$3,039	\$2,129
CH-F53	Utilities - Key 0058 (#WE4)	Util	2004	Ford	Truck	Unleaded	Mileage	0	7,973	8,190	8,481	6,832
						Unleaded	Vehicle hours	0	0	0	0	0
						Unleaded	Gallons or kWh	310	702	800	824	684
						Unleaded	Fuel \$	\$673	\$1,711	\$2,113	\$2,570	\$1,458
CH-F54	Utilities - Key 0059 (#WE5)	Util	2009	Ford	F-250 Pick Up Truck	Unleaded	Mileage	0	0	0	0	4,582
						Unleaded	Vehicle hours	0	0	0	0	0
						Unleaded	Gallons or kWh	0	0	0	0	519
						Unleaded	Fuel \$	\$0	\$0	\$0	\$0	\$1,186
CH-F55	Utilities - Key 0060 (#WE6)	Util	2009	Ford	Ranger Truck	Unleaded	Mileage	0	0	0	0	7,204
						Unleaded	Vehicle hours	0	0	0	0	0
						Unleaded	Gallons or kWh	0	0	0	0	539
						Unleaded	Fuel \$	\$0	\$0	\$0	\$0	\$1,215
CH-F56	Utilities - Key 0061 (#WE7)	Util	2003	Chevrolet	Pick Up Truck	Unleaded	Mileage	0	5,420	6,196	5,787	5,162
						Unleaded	Vehicle hours	0	0	0	0	0
						Unleaded	Gallons or kWh	264	541	642	529	563
						Unleaded	Fuel \$	\$590	\$1,325	\$1,678	\$1,699	\$1,192
CH-F57	Utilities - Key 0062 (#WE8)	Util	1995	International	Navistar Bucket Truck	Diesel	Mileage	0	3,271	3,769	4,239	4,284
						Diesel	Vehicle hours	0	0	0	0	0
						Diesel	Gallons or kWh	388	693	899	859	989
						Diesel	Fuel \$	\$931	\$1,789	\$2,420	\$3,088	\$2,149
CH-F58	Utilities - Key 0063 (#WE9)	Util	2002	International	Line Truck	Diesel	Mileage	0	3,758	4,657	3,975	3,592
						Diesel	Vehicle hours	0	0	0	0	0
						Diesel	Gallons or kWh	570	1,086	1,297	1,045	1,136
						Diesel	Fuel \$	\$1,369	\$2,795	\$3,492	\$3,830	\$2,412
CH-F59	Utilities - Key 0064 (#WE2)	Util	2007	Ford	Focus	Unleaded	Mileage	0	2,130	7,918	6,006	6,227
						Unleaded	Vehicle hours	0	0	0	0	0
						Unleaded	Gallons or kWh	0	113	356	208	251
						Unleaded	Fuel \$	\$0	\$254	\$942	\$650	\$553
CH-F60	Utilities - Key 0065 (#WE12)/ Off - Road	Util	1994	John Deere	Mower/ blower & sweeper	Unleaded	Mileage	0	0	0	0	0
						Unleaded	Vehicle hours	0	0	0	0	0
						Unleaded	Gallons or kWh	0	0	15	14	0
						Unleaded	Fuel \$	\$0	\$0	\$40	\$43	\$0
CH-F61	EMS - Key 0066 (#41)	EMS	1998	Chevrolet	Lumina	Unleaded	Mileage	0	0	0	0	0
						Unleaded	Vehicle hours	0	0	0	0	0
						Unleaded	Gallons or kWh	0	0	0	0	99
						Unleaded	Fuel \$	\$0	\$0	\$0	\$0	\$235

2010 Wisconsin Energy Independent Community Partnership

'Fleet' Tab (Continued)

Fleet ID	Vehicle type/ category	Category	Make	Model	Fuel type	Options	2005	2006	2007	2008	2009
CH-F62	Key 0067	Key			OTHER	Mileage	0	0	0	0	0
					OTHER	Vehicle hours	0	0	0	0	0
					OTHER	Gallons or kWh	0	0	0	0	0
					OTHER	Fuel \$	\$0	\$0	\$0	\$0	\$0
CH-F63	Utilities - Key 0068 (#WE15)/O ff - Road	Util		Chipper	Unleaded	Mileage	0	0	0	0	0
					Unleaded	Vehicle hours	0	0	0	18	11
					Unleaded	Gallons or kWh	0	0	0	44	10
					Unleaded	Fuel \$	\$0	\$0	\$0	\$135	\$25
CH-F64	Utilities - Key 0069 (#WE16)/O ff - Road	Util	1995 Melroe	Bobcat	Unleaded	Mileage	0	0	0	0	0
					Unleaded	Vehicle hours	0	68	74	65	97
					Unleaded	Gallons or kWh	17	67	63	57	70
					Unleaded	Fuel \$	\$43	\$160	\$179	\$185	\$156
CH-F65	Utilities - Key 0070 (#WE11)/O ff - Road	Util	2001 Case	Trench- er	Diesel	Mileage	0	0	0	0	0
					Diesel	Vehicle hours	0	198	105	100	56
					Diesel	Gallons or kWh	133	304	198	165	101
					Diesel	Fuel \$	\$322	\$753	\$543	\$573	\$210
CH-F66	Police - Key 0009 (#652)	Poli	2006 Ford	Crown Victoria	Unleaded	Mileage	0	20,273	40,468	38,817	46,614
					Unleaded	Vehicle hours	0	0	0	0	0
					Unleaded	Gallons or kWh	0	1,764	3,516	3,008	4,072
					Unleaded	Fuel \$	\$0	\$4,218	\$9,239	\$8,751	\$8,706
CH-F67	EMS - Key 0072 (#756)	EMS	2001 Ford	3-450 Ambu- lance	Diesel	Mileage	0	0	0	0	0
					Diesel	Vehicle hours	0	0	0	0	0
					Diesel	Gallons or kWh	156	150	440	271	306
					Diesel	Fuel \$	\$347	\$366	\$1,182	\$990	\$650
CH-F68	Police - Key 0073 (#645)	Poli	2009 Ford	Crown Victoria	Unleaded	Mileage	0	34,567	50,400	11,443	21,771
					Unleaded	Vehicle hours	0	0	0	0	0
					Unleaded	Gallons or kWh	1,367	2,770	1,811	830	1,999
					Unleaded	Fuel \$	\$3,049	\$6,840	\$4,449	\$2,964	\$4,614
CH-F69	Police - Key 0074 (#655)	Poli	2009 Ford	Crown Victoria	Unleaded	Mileage	0	4,139	4,362	4,547	2,747
					Unleaded	Vehicle hours	0	0	0	0	0
					Unleaded	Gallons or kWh	257	304	290	309	431
					Unleaded	Fuel \$	\$542	\$765	\$746	\$958	\$1,233
CH-F70	Police - Key 0075 (#647)	Poli	2000 Ford	Crown Victoria	Unleaded	Mileage	0	5,175	6,500	4,915	5,021
					Unleaded	Vehicle hours	0	0	0	0	0
					Unleaded	Gallons or kWh	145	356	430	280	321
					Unleaded	Fuel \$	\$315	\$879	\$1,122	\$910	\$677
CH-F71	Police - Key 0076 (#651)	Poli	2005 Ford	Crown Victoria	Unleaded	Mileage	0	26,102	3,584	3,667	4,326
					Unleaded	Vehicle hours	0	0	0	0	0
					Unleaded	Gallons or kWh	1,552	1,939	279	138	204
					Unleaded	Fuel \$	\$3,430	\$4,730	\$708	\$455	\$484
CH-F72	Police - Key 0077 (#649)	Poli	2003 Ford	Crown Victoria	Unleaded	Mileage	0	5,106	5,901	5,123	2,626
					Unleaded	Vehicle hours	0	0	0	0	0
					Unleaded	Gallons or kWh	145	434	486	261	214
					Unleaded	Fuel \$	\$311	\$1,032	\$1,311	\$836	\$469

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'Fleet' Tab (Continued)

Fleet ID	Vehicle type/ category	Category	Make	Model	Fuel type	Options	2005	2006	2007	2008	2009
CH-F73	Fire - Key 0078 (#FD1)	Fire	1981 Pierce	Fire Truck Engine	Diesel	Mileage	0	717	1,113	739	1,026
						Vehicle hours	0	0	0	0	0
						Gallons or kWh	59	120	186	126	166
						Fuel \$	\$137	\$335	\$507	\$440	\$345
CH-F74	Fire - Key 0079 (#FD2)	Fire	1996 Ford	Fire Truck Rural Engine	Diesel	Mileage	0	717	1,113	739	1,026
						Vehicle hours	0	0	0	0	0
						Gallons or kWh	59	120	186	126	166
						Fuel \$	\$137	\$335	\$507	\$440	\$345
CH-F75	Fire - Key 0080 (#FD3)	Fire	1989 Ford	Fire Truck Engine	Diesel	Mileage	0	479	423	523	295
						Vehicle hours	0	0	0	0	0
						Gallons or kWh	11	54	43	88	39
						Fuel \$	\$24	\$143	\$117	\$332	\$82
CH-F76	Fire - Key 0081 (#FD4)	Fire	1990 Chevrolet	Fire Van	Unleaded	Mileage	0	315	132	106	229
						Vehicle hours	0	0	0	0	0
						Gallons or kWh	29	51	56	35	65
						Fuel \$	\$60	\$118	\$136	\$127	\$123
CH-F77	Fire - Key 0082 (#FD5)	Fire	1994 Ford	Pick Up 350 4x4 Grass Rig	Unleaded	Mileage	0	419	331	555	322
						Vehicle hours	0	0	0	0	0
						Gallons or kWh	42	104	68	91	69
						Fuel \$	\$91	\$275	\$189	\$332	\$144
CH-F78	WWTP - Key 0083 (#TP15)	WWTP	2002 Godwin	Pump	Diesel	Mileage	0	419	331	555	322
						Vehicle hours	0	0	0	0	0
						Gallons or kWh	42	104	68	91	69
						Fuel \$	\$91	\$275	\$189	\$332	\$144
CH-F79	Fire - Key 0084 (#FD10)	Fire	2003 Sterling	Fire Truck	Diesel	Mileage	0	409	187	253	467
						Vehicle hours	0	0	0	0	0
						Gallons or kWh	21	83	91	57	115
						Fuel \$	\$47	\$229	\$249	\$226	\$237
CH-F80	Fire - Key 0085 (#FD11)	Fire	2002 Sterling	Fire Truck	Diesel	Mileage	0	265	360	289	264
						Vehicle hours	0	0	0	0	0
						Gallons or kWh	43	62	79	57	56
						Fuel \$	\$93	\$172	\$208	\$203	\$119
CH-F81	Fire - Key 0086 (#FD12)	Fire	2000 Pierce	Pump/ Ladder	Diesel	Mileage	0	366	719	758	629
						Vehicle hours	0	0	0	0	0
						Gallons or kWh	81	63	188	193	186
						Fuel \$	\$190	\$160	\$521	\$727	\$409
CH-F82	Fire - Key 0087 (#FD6)	Fire	2005 Sterling	Heavy Rescue Truck	Diesel	Mileage	0	871	558	541	514
						Vehicle hours	0	0	0	0	0
						Gallons or kWh	63	200	197	188	190
						Fuel \$	\$153	\$660	\$533	\$701	\$408
CH-F83	Fire - Key 0088 (#FD20)	Fire	2001 Ford	Crown Victoria	Unleaded	Mileage	2,503	3,826	3,976	3,893	830
						Vehicle hours	0	0	0	0	0
						Gallons or kWh	97	186	137	237	29
						Fuel \$	\$221	\$458	\$371	\$808	\$52

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'Fleet' Tab (Continued)

Fleet ID	Vehicle type/ category	Category	Make	Model	Fuel type	Options	2005	2006	2007	2008	2009
CH-F84	Fire - Key 0089 (Boat)	Fire		Boat	Unleaded	Mileage	0	0	0	0	0
					Unleaded	Vehicle hours	0	0	0	0	0
					Unleaded	Gallons or kWh	0	0	0	0	0
					Unleaded	Fuel \$	\$0	\$0	\$0	\$0	\$0
CH-F85	WWTP - Key 0091 (#TP16)	WWTP	2002 Godwin	Pump	Diesel	Mileage	0	0	0	0	0
					Diesel	Vehicle hours	0	0	0	0	0
					Diesel	Gallons or kWh	11	0	8	5	5
					Diesel	Fuel \$	\$11	\$0	\$21	\$19	\$13
CH-F86	Utilities - Key 0092 (#WE17)	Util	2004 Vac- Tron	#800 Flatbed	Unleaded	Mileage	0	0	0	0	0
					Unleaded	Vehicle hours	0	0	0	0	0
					Unleaded	Gallons or kWh	14	31	33	23	40
					Unleaded	Fuel \$	\$31	\$74	\$83	\$71	\$89
CH-F87	Streets - Key 0093 (Air Compress- or)	Stre		Air Com- pressor	Unleaded	Mileage	0	0	0	0	0
					Unleaded	Vehicle hours	0	20	28	36	24
					Unleaded	Gallons or kWh	0	68	71	92	75
					Unleaded	Fuel \$	\$0	\$169	\$183	\$314	\$137
CH-F88	Streets - Key 0094 (Army Truck)	Stre		Army Truck	Diesel	Mileage	0	0	0	0	0
					Diesel	Vehicle hours	0	0	0	0	0
					Diesel	Gallons or kWh	25	80	152	93	98
					Diesel	Fuel \$	\$62	\$208	\$420	\$320	\$219
CH-F89	Parks - Key 0095 (#PK10)	Park	2005 Chev- rolet	¾ Ton Pick Up Truck	Unleaded	Mileage	0	0	0	0	0
					Unleaded	Vehicle hours	0	0	0	0	0
					Unleaded	Gallons or kWh	0	246	219	188	64
					Unleaded	Fuel \$	\$0	\$636	\$624	\$632	\$145
CH-F90	Parks - Key 0096 (#PK6)	Park	2005 John Deere	997 ZT Mower	Diesel	Mileage	0	0	0	0	0
					Diesel	Vehicle hours	0	0	0	0	0
					Diesel	Gallons or kWh	105	169	160	52	50
					Diesel	Fuel \$	\$250	\$459	\$435	\$211	\$106
CH-F91	Parks - Key 0097 (#PK15)	Park	2007 Jacob- sen	Turfcat	Diesel	Mileage	0	0	0	0	0
					Diesel	Vehicle hours	0	0	0	0	0
					Diesel	Gallons or kWh	0	0	115	102	110
					Diesel	Fuel \$	\$0	\$0	\$320	\$351	\$253
CH-F92	Police - Key 0098 (#653)	Poli	2007 Ford	Crown Victoria	Unleaded	Mileage	0	0	20,672	36,615	11,343
					Unleaded	Vehicle hours	0	0	0	0	0
					Unleaded	Gallons or kWh	0	0	2,135	3,258	2,078
					Unleaded	Fuel \$	\$0	\$0	\$6,043	\$10,086	\$4,177
CH-F93	EMS - Key 0100 (#757)	EMS	2007 Horton	Ambu- lance	Diesel	Mileage	0	0	4,967	12,084	13,473
					Diesel	Vehicle hours	0	0	0	0	0
					Diesel	Gallons or kWh	0	0	647	1,265	1,496
					Diesel	Fuel \$	\$0	\$0	\$1,887	\$4,508	\$3,231
CH-F94	Police - Key 0071 (#639)	Poli	2009 Ford	Explor	Unleaded	Mileage	0	0	0	0	6,818
					Unleaded	Vehicle hours	0	0	0	0	0
					Unleaded	Gallons or kWh	0	0	0	0	293
					Unleaded	Fuel \$	\$0	\$0	\$0	\$0	\$649

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'Fleet' Tab (Continued)

Fleet ID	Vehicle type/ category	Category	Make	Model	Fuel type	Options	2005	2006	2007	2008	2009
	Streets/Key					Mileage	0	0	0	0	0
	1000/Miscellaneous					Vehicle hours	0	0	0	0	0
	Public Works					Gallons or kWh	28	84	108	175	505
	gas needs for all Off-Road Equipment (ie Lawn Mowers, chain saws, etc)	Stre			OTHER	Fuel \$	\$65	\$214	\$304	\$634	\$1,103
CH-F95						Mileage	0	0	0	0	0
	Parks/Key					Vehicle hours	0	0	0	0	0
	1010/Miscellaneous					Gallons or kWh	13	47	68	105	236
	Parks gas needs for all Off-Road Equipment (ie Lawn Mowers, chain saws, etc)	Park			OTHER	Fuel \$	\$26	\$123	\$200	\$342	\$533
CH-F96											

'Fleet pivot' Tab

Row Labels	Column Labels									
	Sum of 2005	Sum of 2006	Sum of 2007	Sum of 2008	Sum of 2009	Sum of 2005	Sum of 2006	Sum of 2007	Sum of 2008	Sum of 2009
EMS	347.31	365.51	3068.64	5498.22	3881.4					
Fire	781.35	2032.77	2640.66	3069.72	1945.04					
key						0	0	0	0	0
Parks	450.74	951.53	1284.64	1015.34	515.27	26.47	122.66	199.78	341.6	532.52
Police										
Streets	11480.5	18231.1	29674.1	35702	19074.5	1079.25	2488.94	2938.01	3129.53	2945.68
Utilities	3608.79	7475.03	8928.54	10529.7	6899.26					
WWTP	836.25	2267.38	2331.79	5358.47	2353.57					
Grand Total	17504.9	31323.4	47928.3	61173.4	34669.1	1105.72	2611.6	3137.79	3471.13	3478.2

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'Fleet pivot' Tab (Continued)

Row Labels	Unleaded					Gallons or kWh Diesel				
	Sum of 2005	Sum of 2006	Sum of 2007	Sum of 2008	Sum of 2009	Sum of 2005	Sum of 2006	Sum of 2007	Sum of 2008	Sum of 2009
EMS	0	0	0	0	235.1	156.4	149.7	1086.1	1536.5	1801.6
Fire	373.11	850.74	695.45	1267.25	319.29	335.7	700.6	967.9	833.9	918.4
key										
Parks	1333.15	2971.9	3141.02	3363.83	2666.96	192.7	350.7	470.8	295.5	236
Police	7648.46	18462.7	23616.8	24960.1	21007.5					
Streets	2133.62	5216.49	6334.96	6536.49	4325.53	5121.04	6937	10803.5	11868	8781
Utilities	1993.22	5361.89	7350.12	8459.84	8366.71	1499.5	2907.7	3311.3	2915.2	3207.6
WWTP	553.5	1714.38	3008.58	3163.23	2670.16	351.2	871.3	825.9	1355	1139.1
Grand Total	14035.1	34578.1	44146.9	47750.7	39591.3	7656.54	11917	17465.5	18804.1	16083.7

Row Labels	OTHER					Unleaded				
	Sum of 2005	Sum of 2006	Sum of 2007	Sum of 2008	Sum of 2009	Sum of 2005	Sum of 2006	Sum of 2007	Sum of 2008	Sum of 2009
EMS						0	0	0	0	98.9
Fire						168.5	341.4	260.6	363.5	163.6
key	0	0	0	0	0					
Parks	13.4	46.5	67.9	105.4	236.3	611.4	1166.6	1149.3	1067.4	1222.4
Police						3465.4	7566.4	8947.9	8083.3	9612.2
Streets	430.7	1097.9	1034.7	969.4	1304.2	968.8	2079.1	2380.6	2076	1976.9
Utilities						915.2	2213.7	2800.8	2752.3	3870.8
WWTP						247.1	717.3	1143.3	1003.1	1166.6
Grand Total	444.1	1144.4	1102.6	1074.8	1540.5	6376.4	14084.5	16682.5	15345.6	18111.4

MMBtu by department

	Diesel	Unleaded	Total	
EMS	158.943	3.0659	162.009	4%
Fire	118.873	35.0021	153.875	4%
Parks	47.0168	142.777	189.793	4%
Police		1060.5	1060.5	25%
Street	1334.04	263.891	1597.93	38%
Utility	428.878	360.766	789.643	19%
WWTP	145.648	124.939	270.587	6%
			4224.34	

2010 Wisconsin Energy Independent Community Partnership

'Scratch' Tab

*'Scratch' Tab contains all calculations related to the results ('Results' tab). Request a digital copy of excel spreadsheet to view complete information. Spreadsheet is too substantial to be placed in this document.

	Baseline energy use (MMBtu)	Projected 2025 usage (MMBtu)	Projected goal (MMBtu)	Revised 2025 usage (MMBtu)	Revised goal (MMBtu)	Renewables (MMBtu)	lbs CO2
25%			6899.2255		5465.3932		
Electricity	12801.47654	13217.326		10962.641		4,697	6348211.7
Natural gas	9429.023333	9735.3205		7305.5205		765.6	1103950.1
Gasoline	2072.432667	2139.7546		1759.4466		0	326,575
Diesel	2425.7029	2504.5007		1833.9647		0	390381.11
Propane	0	0		0		0	0

MMBtu conversion factors	
kWh	0.003412
therms	0.1
gallons unleaded	0.124
gallons diesel	0.139
gallons propane	0.0916

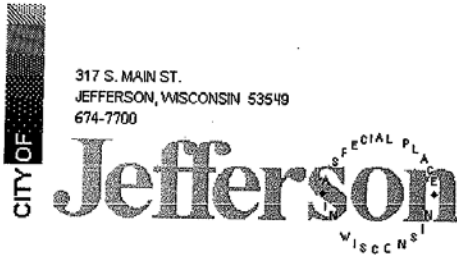
2010 Wisconsin Energy Independent Community Partnership

'PV' Tab

Real discount rate 3.00%
 Tables A-1, A-2, Ba-2.

Year	SPV (nonfuel)	UPV (nonfuel)	FEMP UPV* Discount Factors adjusted for fuel price escalation, by end-use sector and fuel type, census region 2.						
			kWh	Distillate oil	Residual oil	therms (nat gas)	Coal	unleaded fuel	propane
0	1	0	0	0	0	0	0	0	0
1	0.971	0.97	0.91	0.97	1.06	1.05	0.98	1	1.05
2	0.943	1.91	1.79	1.96	2.15	2.12	1.94	2.02	2.12
3	0.915	2.83	2.64	3	3.26	3.17	2.87	3.08	3.17
4	0.888	3.72	3.48	4.05	4.4	4.17	3.78	4.18	4.17
5	0.863	4.58	4.29	5.1	5.53	5.16	4.66	5.26	5.16
6	0.837	5.42	5.09	6.18	6.66	6.12	5.52	6.33	6.12
7	0.813	6.23	5.87	7.26	7.78	7.07	6.36	7.39	7.07
8	0.789	7.02	6.62	8.34	8.89	7.98	7.16	8.44	7.98
9	0.766	7.79	7.36	9.42	9.98	8.88	7.94	9.48	8.88
10	0.744	8.53	8.08	10.48	11.04	9.76	8.69	10.49	9.76
11	0.722	9.25	8.79	11.52	12.09	10.62	9.41	11.49	10.62
12	0.701	9.95	9.48	12.55	13.11	11.48	10.11	12.47	11.48
13	0.681	10.63	10.16	13.55	14.11	12.31	10.79	13.43	12.31
14	0.661	11.3	10.82	14.54	15.09	13.12	11.45	14.37	13.12
15	0.642	11.94	11.47	15.5	16.06	13.91	12.09	15.29	13.91

Appendix B – City of Jefferson Resolution, Document No 64.



CERTIFIED COPY

**CITY OF JEFFERSON
RESOLUTION NO. 64**

BE IT RESOLVED by the Common Council of the City of Jefferson, Wisconsin that the City of Jefferson is in support of the State of Wisconsin "25 x 25" goals for energy independence.

WHEREAS, Governor Doyle has created an Office of Energy Independence which as the following goals:

1. Generating 25% of electricity and transportation fuels from renewable resources by the year 2025 ("25 x 25"),
2. Capturing 10% of the emerging bio industry and renewable energy market; and
3. Wisconsin become a national leader in groundbreaking and affordable alternative energy; and

WHEREAS, by establishing a Renewable Energy Committee and adopting a Strategic Plan, the City of Jefferson will respond to climate change challenges by including sustainability as a guiding principle in its decision making processes, supporting projects that exemplify best practices in sustainability and supporting multi jurisdictional partnerships to promote and implement best practices; and

WHEREAS, the State Office of Energy Independence is seeking partnership with local units of government to further the state's efforts to achieve "25 x 25" goals; and

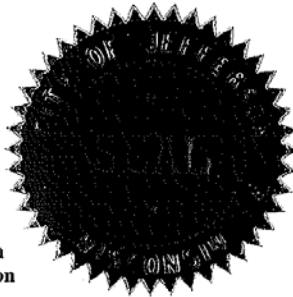
WHEREAS, the City of Jefferson will benefit from such a partnership with the State of Wisconsin.

NOW, THEREFORE, BE IT RESOLVED, that the Common Council does hereby declare itself a partner with the State of Wisconsin in pursuit of the "25 x 25" goals for energy independence.

BE IT FURTHER RESOLVED THAT, upon adoption the City Clerk-Treasurer is hereby directed to send a copy of this resolution to Governor Doyle's office and the Wisconsin Office of Energy Independence.

October 6, 2009
Approved by a vote of 6 to 0

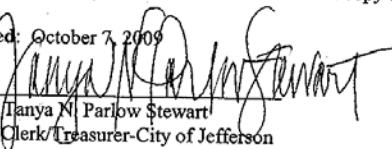
City Official Seal



State of Wisconsin
County of Jefferson

I certify that this is a true and correct copy of a document in the possession of the City of Jefferson.

Dated: October 7, 2009


Tanya N. Parlow Stewart
City Clerk/Treasurer-City of Jefferson
Notary Public
Commission expires 9/16/2012

Please direct any questions electronically to:

Brian Driscoll
Community Relations Director
State of Wisconsin
Office of Energy Independence
17 West Main St. Room #429
Madison, WI 53702
brian.driscoll@wisconsin.gov

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