



VILLAGE OF RIVER FOREST SUSTAINABILITY COMMISSION

Tuesday, October 9, 2018 – 7:00 PM

Village Hall – Community Room, 400 Park Ave., River Forest, IL

AGENDA

1. Call to Order/Roll Call
2. Public Comment
3. Commissioner Reports on Meetings
4. Plan It Green Presentation – Gary Cuneen
5. Green Block Parties, Pollinator Gardens and HLHF Wrap Up
6. Upcoming Events
 - a. Dominican Beekeeper Workshop 10/20/18
 - b. Fall finished compost pick up 10/20/18
 - c. Dominican Farm to Campus Event 10/24/18
7. ComEd Energy Efficiency Assessment – Village Hall Facility Report
8. Schedule Next Meeting – Tuesday November 20th, 2018 – 7:00pm
9. Adjournment



Vision

Oak Park and River Forest are communities that are environmentally sustainable while protecting their environment, strengthening their economy, building their community, and improving quality of life.

Mission

Using identified indicators and working with local and regional organizations, the communities of Oak Park and River Forest will engage their residents, governing bodies, local organizations, and local businesses to coordinate and align priorities, efforts and resources to achieve our environmental sustainability vision.

Desired Outcomes

Thinking generations into the future, the communities of Oak Park and River Forest through their commitment to sustainability will strive to achieve the following outcomes:

- Communities that successfully transition to a renewable energy economy, significantly reducing the impacts of global climate change.
- Communities that shift from a paradigm of “waste management” to one of “materials recovery”, and that ultimately produce zero waste.
- Communities that make all decisions through the lens of sustainability, incorporating environmental enhancement, economic development, social equity, and quality of life.
- Communities that reduce consumption of our precious global water resources, and find ways to harvest rainwater and reuse water for all non-potable water needs.
- Communities that are easy to navigate by foot, bike and public transit, and utilize non-polluting and non-greenhouse gas emitting vehicles toward restoring our climate’s natural balance.
- Communities that support diverse ecosystems with ample open space, abundant native flora, fauna, and pollinators, and use materials that pose zero threats to the health of our community members and ecosystems.
- Communities that source the majority of our food needs from local, sustainable and organic growers, increasing the health and well-being of our population and supporting local farmers, local community businesses, and the preservation of our ecosystems.
- Communities whose educational institutions integrate sustainability into every day learning, and whose children and adults experience sustainability as the new normal.

- Communities that support all businesses in thriving through reducing costs and environmental footprints, and that become a magnet for new businesses providing sustainable products and services that support sustainability within and beyond our borders.
- Communities that plan and act to adapt to the reality of climate change, and prepare for climate-related events.
- Communities that are socially, economically and environmentally connected and thriving, and that enjoy a good quality of life for all residents while consuming in such a way as to ensure the ability of all future generations to have the same resources, opportunities, and quality of life.

PlanItGreen Q&A for River Forest Sustainability Commission October 2018 meeting

Discussion Draft, 9/25/18

What is PlanItGreen?

From Seven Generations Ahead website:

PlanItGreen grew out of the Oak Park River Forest Community Foundation's Communityworks initiative, designed to enhance the vibrancy and quality of life of Oak Park and River Forest. The Communityworks endowment – seeded by a grant from the Grand Victoria Foundation – currently funds three priority initiatives including environmental sustainability (PlanItGreen), Success for All Youth (SAY) and the Leadership Lab. PlanItGreen is a collaboration between the OPRF Community Foundation, Seven Generations Ahead, and multiple institutions, and is guided by the OPRF Community Foundation's Communityworks Advisory Board and the PlanItGreen Core Team. Seven Generations Ahead proposed and was contracted to develop a community engagement process designed to create a sustainability plan for Oak Park and River Forest in 2010-11, and is directing the ongoing implementation of the Environmental Sustainability Plan for Oak Park and River Forest. The Plan continues to be implemented, including a metrics-based Community Sustainability Report Card that is regularly produced to evaluate progress against the plan's 10-year goals.

Who is on the PlanItGreen Core Team?

The Core Team is comprised of representatives from many of OP and RF's taxing bodies, major institutions, non-profits and sectors (business, resident, faith-based institutions). Membership is open to Oak Park and River Forest taxing bodies, institutions and sector groups. Current *participating* members include Park District of Oak Park; VOP; VRF and VOP Sustainability Commissions; Triton College; Rush OP Hospital; Interfaith Green Network; Green Community Connections; OP Public Library; OPRF Community Foundation; SGA; D90; OP Residence Corporation; DTOP; and D97 PTO.

How and when are PlanItGreen goals set?

General framework is Community Foundation's Vision, Mission and Desired Outcomes for Environmental Sustainability Priority Area? [attached](#)

Plan It Green and Community Works develop Implementation Work Plan based on that? [yes](#)

What is the role of Core Team members in defining the PlanItGreen goals and/or defining their own goals that may be separate from the PlanItGreen goals? [The Core Team prioritizes PlanItGreen goals and strategies for any given year, and we have an Indicators and Goals committee that reviews goals/indicators every few years. Some individual institutions have their own goals/priorities, and make an effort to align them with the broader goals within the Environmental Sustainability Plan for Oak Park and River Forest.](#)

How are PlanItGreen goals implemented?

Role of Seven Generations Ahead?

[SGA plays the role of project director, facilitator, lead on implementation of specific strategies, report card writing/production, manager of subcontractors, communityworks liaison, grant writer, newsletter](#)

and communications implementation, lunch and learn/forum production and external partner developer and connector.

Role of consultants engaged by SGA?

Current consultant/subcontractors include West Cook Wild Ones (native garden education and corridor development); Green Community Connections (residential education) and Mark Burger (community solar).

How is PlanItGreen funded?

\$87,000 (2018) from Oak Park River Forest Community Foundation. What are the Community Foundation's sources of funding for this? [Communityworks endowment](#). Does the Village of River Forest contribute any funding to Plan It Green? No

Please supply most recent budget. [attached](#)

How can PlanItGreen enable Core Team members to achieve goals?

Funding: How does Plan It Green decide how to distribute funds it receives to Core Team members?

Budget and spending decisions are made collectively by the Core Team and SGA operates from the [general budget decisions](#).

How can Plan It Green help Core Team members obtain grants?

We help develop project concepts, find funding resources, and support and/or write grants.

Expertise? [yes](#)

Implementation help? [yes](#)

What is the relationship between PlanItGreen and the Metropolitan Mayors Caucus?

Nothing formally in relation to PlanItGreen, but SGA has worked collaboratively with the MMC for many years, and partnered with CMAP and MMC to develop a Chicago metro area guide for sustainability indicators. We present at and attend some of the environmental committee forums of the MMC, and have overlapping goals and interests. A recent example is SGA's role in facilitating meetings between SolSmart and VRF/VOP – which is an initiative that the MMC is working on regionally.

What is the long term plan for PlanItGreen?

A long-term plan has not been established, though scopes of work recently have been developed for two-year periods of time.

What specific opportunities are there for PlanItGreen to support the work of the River Forest Sustainability Commission?

Possibilities for discussion at October meeting:

1. Request \$5,000 for Green Block Parties native and pollinator gardens for summer2019. This aids in the goal of 500 butterfly gardens and helps create more "green" space per the goals and reaches community education. [Happy to discuss](#).

2. Request that PlanItGreen help identify funding sources to help the RF curbside composting program. This could be in the form of funding the cost of a pilot for an opt-out program. [Happy to discuss.](#)

3. Assist the RF Sustainability Commission in securing renewable energy options for our residents and identifying the best possible partners for this. [Happy to discuss.](#)



PlanItGreen 2017-18 Implementation Work Plan

1. ENERGY-Increase renewable energy procurement 25% by 2020; decrease overall energy use by 2% annually; reduce GHG emissions to 30% below 2007 levels by 2020 and 35% below 2007 levels by 2025; and increase prevalence of solar/renewables energy development and procurement with OP and RF institutions and residents.

Strategies

Large Institution Energy Use Benchmarking – implement Lunch and Learn to learn from City of Chicago model and process; explore taxing body interest in Energy Benchmarking policy/program; develop data aggregation protocol and timeline; establish energy use reduction goal targets; and support energy use reduction through Elevate Energy and utility programs. (2018 Q1-Q4)

Renewable Energy Development and Procurement – aggregate energy use data of large institutions, build interest in energy procurement contracts linked to a Community Solar Power Purchase Agreement, facilitate third-party Community Solar development, support funding and assessment for on-site solar installations; develop and implement strategy for moving toward 100% renewable energy procurement. (Ongoing)

Elevate Energy – explore audits, efficiency upgrade plans and financing through Elevate Energy targeting universities and colleges, day care centers, senior living centers, multi-family buildings, and non-profits (conduct forum through OPRFCF Non-Profit Series); and market Elevate Energy through VOP and VRF. (Ongoing)

2. WASTE-Increase residential waste diversion to 50% by 2020; reduce overall materials generated by 1% annually; increase institutional waste diversion by 3% annually; and enact policies that drive diversion rates toward zero waste and reduce waste at its source.

Strategies

Zero Waste Community Plan – conduct community waste assessment; implement strategy development meetings and forum; produce Zero Waste Plan; prioritize strategies and implement. (Q2-Q4 2017)

WeCompost – work with local businesses and institutions to assess waste streams, analyze waste hauler contracts, incorporate food scrap diversion/composting procedures and infrastructure, and become WeCompost certified. (Q2-Q4 2017)

Institutional and School-based Zero Waste Implementation-work with senior living centers, schools and institutions to conduct waste systems analysis, convene personnel, and develop and implement strategies to eliminate waste, increase recycling and incorporate food scrap diversion systems and hauling contracts. (Ongoing)

Community Events-support community events with consulting, equipment recommendations, and planning in relation to zero waste event implementation. (Spring/Fall 2017-2018)

Residential-educate community through Green Guides recycling and composting forums/guides. (Ongoing)

3. TRANSPORTATION-achieve 3% annual increase in public transit ridership and 3% annual decrease in Vehicle Miles Traveled; increase Divvy ridership and shared car stations; and increase the number of people biking and walking in Oak Park and River Forest.

Strategies

Bikable/Walkable Community-Support Madison Street Complete Street implementation with education and advocacy, and develop strategies for creating connectivity between Madison bike lanes and arties linked to schools and business districts. (Ongoing)

The Ike-support education and advocate for sustainable strategies in relation to I-290. (Ongoing)

4. WATER-Reduce overall consumption of potable water; use less potable water for landscape and lawn watering, toilet flushing and other non-essential potable water uses; increase the use of water-efficient technologies, including dishwashers, low-flow toilets, showerheads, etc.

Strategies

Lunch and Learn-develop Lunch and Learns that educate institutions, businesses and residents on grey water reuse and rain water harvesting technologies and case examples. (Q3 2017)

Residential-coordinate with VOP and VRF staff on community education through Green Guides in relation to water conservation strategies, new metering technologies, rain barrel set-up, and water-saving native gardens. (Spring 2017-2018)

5. OPEN SPACE/ECOSYSTEMS-Establish 500 native plant/butterfly gardens by 2020 as part of Oak Park-River Forest Native Garden Corridor, including public buildings with landscaping; establish Integrated Pest Management (IPM) and Non-Toxic policies and practices at major Oak Park and River Forest institutions.

Strategies

Wild Ones Native Garden Corridor Expansion and Conference - implement Wild Ones native/butterfly gardens education workshops, disseminate native plant/garden resources, engage residents and institutions in installing 100 new residential and institution-based gardens in Oak Park and River Forest, provide garden planning and installation support and implement GIS community native garden corridor mapping. (Ongoing)

Green Guides-educate residents on the benefits of native gardens, how to access native/butterfly plants, garden maintenance, and pollinator tracking. (Ongoing)

6. FOOD-Increase the volume of local, sustainable and healthy food procured within the communities; use more public, private and institutional land to grow more food, particularly for those in need; increase the amount of food scrap amended compost used on public landscaping and residential gardens and lawns; and reverse the obesity trend within our communities and grow healthier children.

Strategies

Links to Local Food-Promote and disseminate information on farmers markets, CSA farm subscriptions, and local food markets and restaurants. (Q2-Q3 2017-2018; Ongoing)

Education-disseminate healthy eating/local foods and garden curricula to public and private school teachers. (Q1-Q3 2017-2018)

7. EDUCATION-Make sustainable choices by residents, stakeholders and visitors commonplace; integrate 21st century sustainability lessons into K-12 curricula and engage students in sustainability projects and learning; develop resident sustainability experts and integrate them into community education; and increase student awareness about the Environmental Sustainability Plan for Oak Park and River Forest, and develop student environmental stewards.

Strategies

School Leaders-establish liaison meetings with D97 Superintendent, agenda time with Superintendent and Principals, provide updates at PTO Council meetings, meet with D97, D90 and D200 board members and parent leaders, and meet with three public school superintendents to develop project collaboration. (Ongoing)

Curriculum and Program Linkages-support curriculum integration related to zero waste, local food/healthy eating and native gardens, link schools to farm to school programs including Great Illinois Apple Crunch and Illinois Harvest of the Month, advocate for integration of Zero Waste 4th grade curriculum, and provide education on native gardens; Community Solar, and energy benchmarking. (Q2-Q3 2017-2018)

8. COMMUNITY DEVELOPMENT-Create sustainable development criteria to guide development decisions; amend local codes and ordinances through the lens of sustainability; promote development projects that adhere to sustainability criteria; reduce flooding using sustainable strategies in relation to major storm events.

Strategies

Climate Change Adaptation/Resiliency Strategy Development – review and synthesize community plans and OP/RF current strategies; conduct climate resiliency planning forum; and support funding acquisition for implementation priorities. (Q2 2017)

Projects-support sustainable community development grant funding acquisition. (Ongoing)

Criteria-promote sustainable building development through criteria and policy for public and privately-funded projects. (Ongoing)

9. ECONOMIC DEVELOPMENT-Support existing businesses in greening their operations; attract new businesses to the community that incorporate sustainability into operations, products and services; increase the procurement of products and services produced in a sustainable way; build a strong local economy and increase resident purchases from local businesses.

Strategies

Marketing-promote marketing brochure development for attracting new, sustainable businesses along the Madison Street Corridor. (Q1-Q2 2018)

Business Linkages-work with OP EDC to develop strategies and outreach to attract new sustainable business. (2018)

Buy Local-support DTOP and local business association buy local initiatives. (Ongoing)

Facility Assessment

Prepared for

Village of River Forest

By: Steve Spentzas • Energy Engineer • (773) 420-7439 • Steve.Spentzas@Clearesult.com

Acct. Number ending in 1001 • 400 Park Ave, River Forest, IL 60305 • 07/10/2018

EXECUTIVE SUMMARY

Financial Benefit

We estimate your Facility has the potential for:

| | |
|---|----------------|
| Annual Savings | \$8,700 |
| ComEd® Energy Efficiency Program Incentive | \$6,080 |

Annual Energy Benefit



Annual Environmental Benefit

Can Reduce Your Carbon Footprint by up to...

55 Metric Tons of CO₂ Equivalent

or 10 Homes Powered Annually

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STANDARD AND INSTANT DISCOUNT INCENTIVES

Financial Benefit by Simple Payback

Estimated <2 Year Payback Opportunities

| Measure | Annual Cost | | Incentive | Simple Payback (Years) |
|---|--------------|--------------|--------------|------------------------|
| | Savings | Project Cost | | |
| Install Vending Machine Occupancy Sensors | \$170 | \$260 | \$140 | 0.7 |
| Subtotal | \$170 | \$260 | \$140 | 0.7 |

Estimated 2-5 Year Payback Opportunities

| Measure | Annual Cost | | Incentive | Simple Payback (Years) |
|------------------------------------|----------------|-----------------|----------------|------------------------|
| | Savings | Project Cost | | |
| Relamp T8 Lighting | \$3,550 | \$14,160 | \$1,960 | 3.4 |
| Replace Metal Halide Lighting | \$2,440 | \$11,700 | \$2,450 | 3.8 |
| Install Demand Control Ventilation | \$2,300 | \$10,900 | \$1,500 | 4.1 |
| Subtotal | \$8,290 | \$36,760 | \$5,910 | 3.7 |

Estimated >5 Year Payback Opportunities

| Measure | Annual Cost | | Incentive | Simple Payback (Years) |
|--------------------------------------|-------------|--------------|-------------|------------------------|
| | Savings | Project Cost | | |
| Replace Compact Fluorescent Lighting | \$20 | \$300 | \$30 | 13.5 |
| Subtotal | \$20 | \$300 | \$30 | 13.5 |

ASSESSMENT TOTAL **\$8,480** **\$37,320** **\$6,080** **3.7**

Customers who install Illinois-manufactured energy efficiency products in their facilities may qualify for a 10 percent bonus on each eligible standard measure installed. Additional information and application forms for the 'Made in Illinois Bonus Coupon' are available at ComEd.com/BizIncentives.

For the Standard Incentives program, the total incentive paid cannot exceed 100 percent of the incremental measure cost and 50 percent of the total project cost.

Please see section titled "Standard Measure Details" later on in this report for further information on listed Opportunities

OPERATIONAL OPPORTUNITIES

Operational Opportunities offer simple, effective ways to reduce energy costs at your facility. The following recommendations are based on Business Energy Analyzer (BEA) profile data and engineer observations during the site visit. While the following opportunities identified do not offer ComEd incentives, they have no cost and can provide immediate energy savings when implemented. For more information on the BEA, please visit www.ComEd.com/BEA.

Optimization Opportunities

Adjust Data Closet Thermostat Setpoint

The data closet is currently kept at 68°F and is cooled by a 2-ton split direct expansion unit. The American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) recommends a setpoint between 77°F and 80°F. There is an opportunity to raise the temperature of the server room by 10°F. The temperature can be increased incrementally to 78°F. This will reduce load on the cooling system and result in energy savings.

Estimated Annual kWh Savings: 2,400

Estimated Annual \$ Savings: \$220

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ADDITIONAL PROGRAM OFFERINGS

Available Offerings

In addition to Standard Incentives, your facility may also be eligible for the following:

- Comprehensive Energy Savings
- AirCare Plus
- Retro-Commissioning
- Industrial Systems
- Data Center Efficiency
- New Construction
- Technical Assistance Services
- Office Space

AirCare Plus

Offering Description:

ComEd offers low-cost comprehensive AirCare Plus® tune-ups of HVAC packaged rooftop units and split systems. AirCare Plus tune-ups help businesses save energy and money on their electric bills, improve HVAC system performance and enhance indoor air quality and occupant comfort. Each tune-up, conducted by a ComEd Energy Efficiency Program Trade Ally, includes a thorough inspection and adjustment of the HVAC unit's thermostat, economizer, refrigerant charge, coils and belts for optimal performance.

Opportunity at Your Facility:

The facility has three 25-ton rooftop units (RTUs) to heat and cool air for the building. These units may qualify for the AirCare Plus program. Through this program, an AirCare Plus service provider would perform a free inspection of the RTUs to determine if there are any opportunities to improve the efficiency. If energy efficiency opportunities are found, the service provider would implement system improvements that are beyond the scope of routine maintenance such as replacing thermostats, cleaning coils, economizer optimization, and refrigerant charge tune-ups at a reduced cost. Annual tune-ups are recommended for any HVAC system.

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ADDITIONAL PROGRAM OFFERINGS

Data Center Efficiency

Offering Description:

ComEd offers a wide variety of technical assistance and cash incentives to help you reduce energy use in your new or existing data center. Incentives are based on the verified annual energy savings that result from your projects. ComEd will work with you to calculate energy savings and incentivize your energy- efficiency measures at a rate of \$0.07/kWh saved, up to 100% of the incremental cost and 50% of the total cost of the project.

Opportunity at Your Facility:

The facility has one area for computer servers and their associated components. The space has 20 servers and is cooled by 2-ton direct expansion unit. There may be an opportunity for the facility to participate in the Data Center Closet-to-Colocation Program, pending further screening. Through this program, the facility may be able to relocate equipment to a colocation site, which involves leasing space in a remote high efficiency data center instead of hosting equipment locally at the facility. The program will identify opportunities to make the data centers more energy efficient, saving energy and associated costs.

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STANDARD MEASURE DETAILS

Lighting Solutions

Relamp T8 Lighting

Relamp T8 Fluorescent Fixtures with Tubular LED (TLED) lamps, which are more efficient than Standard T8 Lamps and provide comparable lighting levels

| Location | Qty | Existing | Proposed ^A | Estimated Energy Savings (kWh/Yr) | Estimated Savings (\$/Yr) | Estimated Cost (\$) | Estimated Incentive (\$) ^B | Payback (Years) |
|---------------------------|-----|---|---|-----------------------------------|---------------------------|---------------------|---------------------------------------|-----------------|
| Police Department | 16 | 2-Lamp 4-ft F32 T8 with Standard BF Electronic Ballasts (59W) | 2-Lamp Tubular LED (TLED) Lamps (36W) | 3,200 | \$290 | \$640 | \$100 | 1.9 |
| Entire Facility | 35 | 3-Lamp 4-ft F32 T8 with Standard BF Electronic Ballasts (88W) | 3-Lamp Tubular LED (TLED) Lamps (54W) | 10,400 | \$940 | \$2,100 | \$320 | 1.9 |
| Police Department | 32 | 4-Lamp 4-ft F32 T8 with Standard BF Electronic Ballasts (114W) | 4-Lamp Tubular LED (TLED) Lamps (72W) | 11,800 | \$1,100 | \$2,600 | \$380 | 2.0 |
| Police & Fire Department | 32 | 2-Lamp T8 U-Bend Lamp Fixtures with Standard BF Electronic Ballasts (59W) | 2-Lamp 2-ft U-Bend Tubular LED (TLED) Lamps (38W) | 5,900 | \$530 | \$1,900 | \$190 | 3.2 |
| Offices | 90 | 3-Lamp 4-ft F32 T8 with Standard BF Electronic Ballasts (88W) | 3-Lamp Tubular LED (TLED) Lamps (54W) | 6,400 | \$580 | \$5,400 | \$810 | 7.9 |
| Offices | 5 | 2-Lamp 4-ft F32 T8 with Standard BF Electronic Ballasts (59W) | 2-Lamp Tubular LED (TLED) Lamps (36W) | 240 | \$20 | \$200 | \$30 | 8.5 |
| Offices | 7 | 2-Lamp T8 U-Bend Lamp Fixtures with Standard BF Electronic Ballasts (59W) | 2-Lamp 2-ft U-Bend Tubular LED (TLED) Lamps (38W) | 310 | \$30 | \$420 | \$40 | 12.7 |
| Community Room | 15 | 2-Lamp T8 U-Bend Lamp Fixtures with Standard BF Electronic Ballasts (59W) | 2-Lamp 2-ft U-Bend Tubular LED (TLED) Lamps (38W) | 660 | \$60 | \$900 | \$90 | 13.5 |
| Relamp T8 Lighting | | | Subtotal | 38,910 | \$3,550 | \$14,160 | \$1,960 | 3.4 |

STANDARD MEASURE DETAILS

Lighting Solutions Continued

Replace Metal Halide Lighting

Replace Metal Halide Fixtures with LED Fixtures, which are more efficient and provide comparable lighting levels

| Location | Qty | Existing | Proposed ^C | Estimated Energy Savings (kWh/Yr) | Estimated Savings (\$/Yr) | Estimated Cost (\$) | Estimated Incentive (\$) | Payback (Years) |
|--------------------------------------|-----|------------------------------------|--|-----------------------------------|---------------------------|---------------------|--------------------------|-----------------|
| Exterior | 17 | 250W Metal Halide Wallpacks (295W) | 70W LED Outdoor Wallpack Fixtures (70W) | 16,800 | \$1,500 | \$7,100 | \$1,500 | 3.7 |
| Exterior | 14 | 175W Metal Halide Fixtures (215W) | 45W LED Outdoor Flood Light Fixtures (45W) | 10,400 | \$940 | \$4,600 | \$950 | 3.9 |
| Replace Metal Halide Lighting | | | Subtotal | 27,200 | \$2,440 | \$11,700 | \$2,450 | 3.8 |

Replace Compact Fluorescent Lighting

Replace Compact Fluorescent Lighting (CFL) with LED Lamps, which are more efficient and provide comparable lighting levels

| Location | Qty | Existing | Proposed | Estimated Energy Savings (kWh/Yr) | Estimated Savings (\$/Yr) | Estimated Cost (\$) | Estimated Incentive (\$) ^B | Payback (Years) |
|---|-----|----------------------------|-------------------|-----------------------------------|---------------------------|---------------------|---------------------------------------|-----------------|
| Community Room | 30 | 13W CFL Spiral Lamps (13W) | 7W LED Lamps (7W) | 190 | \$20 | \$300 | \$30 | 13.5 |
| Replace Compact Fluorescent Lighting | | | Subtotal | 190 | \$20 | \$300 | \$30 | 13.5 |

Lighting Solutions Total

66,300 \$6,010 \$26,160 \$4,440 3.6

STANDARD MEASURE DETAILS

HVAC Solutions

Install Demand Control Ventilation

Install Demand Ventilation Controls for Conditioned Spaces to control ventilation based on real-time occupancy

| Location | Size (sqft) | Existing | Proposed | Estimated Energy Savings (kWh/Yr) | Estimated Energy Savings (Therm/Yr) | Estimated Savings (\$/Yr) | Estimated Cost (\$) | Estimated Incentive (\$) | Payback (Years) |
|---|-------------|---|-------------------------------------|-----------------------------------|-------------------------------------|---------------------------|------------------------|--------------------------|-------------------|
| Entire Facility | 36,313 | Conditioned Space without Demand Ventilation Controls | Install Demand Ventilation Controls | 16,600 | 940 | \$2,300 | \$10,900 | \$1,500 | 4.1 |
| Install Demand Control Ventilation | | | Subtotal | 16,600 | 940 | \$2,300 | \$10,900 | \$1,500 | 4.1 |
| <i>HVAC Solutions Total</i> | | | | <i>16,600</i> | <i>940</i> | <i>\$2,300</i> | <i>\$10,900</i> | <i>\$1,500</i> | <i>4.1</i> |

STANDARD MEASURE DETAILS

Special Purpose Equipment Solutions

Install Vending Machine Occupancy Sensors

Install Sensors to cycle Vending Machine lights and/or compressors based on occupancy

| Location | Qty | Existing | Proposed | Estimated Energy Savings (kWh/Yr) | Estimated Savings (\$/Yr) | Estimated Cost (\$) | Estimated Incentive (\$) | Payback (Years) |
|--|-----|--------------------------|--------------------------|-----------------------------------|---------------------------|---------------------|--------------------------|-----------------|
| Basement | 1 | Beverage Vending Machine | Install Occupancy Sensor | 1,600 | \$140 | \$180 | \$100 | 0.6 |
| Basement | 1 | Snack Vending Machine | Install Occupancy Sensor | 340 | \$30 | \$80 | \$40 | 1.3 |
| Install Vending Machine Occupancy Sensors | | | Subtotal | 1,940 | \$170 | \$260 | \$140 | 0.7 |
| Special Purpose Equipment Solutions Total | | | | 1,940 | \$170 | \$260 | \$140 | 0.7 |

Table Footnotes

Values rounded for simplicity.

Check compatibility of reduced wattage lamps with existing ballasts before implementing.

For the Standard Incentives program, the total incentive paid cannot exceed 100 percent of the incremental measure cost and 50 percent of the total project cost.

- ^A Both A-Type and B-Type TLEDs are eligible for incentives through the Instant Discounts program. A-Type TLEDs operate using the existing electronic fluorescent ballast, while B-Type TLEDs bypass the existing ballast and the lamp operates using an internal integrated driver. Lamp life may vary depending on TLED lamp type and existing installed ballasts.
 - ^B Discounts are available through participating distributors in the Instant Discounts Program. Incentive is in the form of a discounted product cost provided at the time of purchase. A list of participating distributors can be found at www.ComEd.com/InstantDiscounts
 - ^C Product must be listed on DesignLights™ Consortium (DLC) Qualified Products list, available at www.designlights.org. If DLC does not have a category for the proposed fixture type, fixtures may be approved by ENERGY STAR.
- Electricity Cost = \$0.0899/kWh (average commercial retail price for the State of Illinois over the past 12 months) - Energy Information Administration
- Natural Gas Cost = \$0.908/therm (average commercial retail price for the State of Illinois over the past 12 months) - Energy Information Administration

APPLICATION PROCESS

1

CHECK PROJECT AND EQUIPMENT ELIGIBILITY

- Project must be a new improvement at an existing facility that results in a permanent reduction in electrical usage (kWh).
- All installed equipment must meet or exceed the ComEd Energy Efficiency Program incentive specifications and be installed in facilities served by ComEd. Customers must have a valid ComEd account number on a ComEd non-residential rate.

2

SUBMIT A PRE-APPROVAL APPLICATION

- A Pre-approval Application is required for certain projects, including all Custom projects. Check the Incentives Worksheets for the measures you plan to install to see if any of them require pre-approval.
- If your project requires pre-approval, complete and submit the ComEd Energy Efficiency Program Pre-approval and Final Application Form and Incentive Worksheet(s). Wait until your application has been approved by the ComEd Energy Efficiency Program team before starting your project. Custom projects must be pre-approved before purchase orders can be issued.
- When your Pre-approval Application is approved, you will receive an incentive reservation letter. Incentive funds for your project will be set aside for 90 days (or until the end of the program year, whichever comes first).
- A pre-installation inspection may be required. If so, we will contact you to schedule the inspection.

3

INSTALL EQUIPMENT OR PERFORM PROJECT WORK

- The incentive reservation allows you 90 days to complete your project. Contact the ComEd Energy Efficiency Program team if you think your project will require more than 90 days.
- Verify that the equipment to be installed meets or exceeds the specifications found on the ComEd Energy Efficiency Program Worksheet.

4

SUBMIT A FINAL APPLICATION

- Submit a Final Application as soon as your project is completed, but no more than 60 days after completion. Final Applications received more than 60 days after completion will be rejected.
- The ComEd Energy Efficiency Program team will review your Final Application. You may be contacted during the final review to schedule a post-installation inspection.

5

RECEIVE INCENTIVE PAYMENT

- The incentive check will be sent four to six weeks after your complete Final Application is submitted.

Want to get Started?... Let us help

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