

# Leading the Way Bissell Centre





#### LOUISE TRAYNOR Chief Operating Officer

# **CLIMATE ACTION HIGHLIGHTS**



#### **Renewable Energy**

Bissell Centre installed 78 solar panels on the rooftop of one of their sites, meeting 19% of the building energy demands.



**Energy-Efficient Technologies** Bissell Centre converted all lighting in their building to LEDs, upgraded their water heater, and improved heat and insulation efficiency.



#### **Workplace Training and Education** Bissell Centre partnered with their contractor and trained participants in

contractor and trained participants in their casual work program to install their solar array. Bissell Centre

Renewable

Energy

Energy-Efficient

Technologies

### Background

Bissell Centre has been operating in Edmonton's inner city since 1910. Bissell Centre helps people who are homeless find homes, provides emergency food and clothing, supports families by offering free childcare and family support services, enables employment and life skills training, and empowers people to lead prosperous lives.

Bissell Centre recognizes that individuals and families experiencing poverty are hardest hit by climate change. For this reason, they have taken action to reduce energy poverty within their community through their new initiative, **Greening Bissell.** 



Corporate Climate Leader since 2018



2017 Baseline Year Emissions 2,602 Tonnes of GHGs



### Targets

15% GHG emission reduction by 2025 from 2017 baseline

22% GHG emission reduction by 2035 from 2017 baseline



Renewable Energy

**Bissell Centre** 



In March 2020, Bissell Centre set out to become more resilient by reducing energy costs, while offering their community employment pathways into low-carbon industries. After discovering that nearly 90% of their casual labour program participants were former oil and gas workers, Bissell Centre decided to partner with a contractor and invest in training for some of Edmonton's citizens to complete the solar panel installation. In a collaborative effort with Newo Global Energy, Bissell Centre completed a **25 kW photovoltaic** (**PV**) system on their roof. To date, Bissell Centre has trained three cohorts of individuals on the practical skills to install a solar array.

### PARTNERSHIPS

#### **Bissell Centre partnered with:**

- CIP, EcoCity Edmonton, and Energy Efficiency Alberta to finance the solar panel installation and training programs.
- Newo Global Energy to provide solar panel installation training to participants in their casual labour program, and to design and supervise the installation. Newo ultimately hired 6 trainees over the course of the project.

## **PROJECT OUTCOMES**

The PV system is comprised of **78 photovoltaic modules**, with 6 used for the purpose of training new cohorts. The system is expected to achieve:

Renewable Energy

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22.6 Tonnes of GHGs reduced/year



27,000 kWh of electricity generated/year



**19%** of the Centre's energy demands met



## **IN THE NEWS**

Learn more about the first phase of **Greening Bissell**:

- CTV NEWS
  - Episode 64 EcoCity Edmonton
    The Well Endowed Podcast
  - Newo Global Energy Story







Public Demonstration of Organizational Values New Employment Opportunities for the Community



Energy-Efficient Technologies

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# **Energy-Efficient Technologies**

# **Bissell Centre**



Bissell Centre conducted an energy audit on their Community Space building to measure the site's current energy efficiency level and used this information to identify their greatest opportunities to reduce building related emissions. To improve energy efficiency, Bissell Centre converted all lighting in their building to LEDs, upgraded the water heater, and increased the building's energy performance through actions such as replacing or sealing inefficient doorways and windows.

As part of the second phase of **Greening Bissell**, the Centre has conducted energy audits on four additional sites. Bissell Centre has also started to secure the funding necessary to upgrade the building envelope and lighting at their Thrift Shoppe.

### PARTNERSHIPS

#### **Bissell Centre partnered with:**

- Faithful Footprints and EcoCity Edmonton to finance the energy audits and building envelope energy upgrades.
- Newo Global Energy to conduct detailed energy audits of all Bissell sites to provide a clear understanding of potential building upgrades.

# **PROJECT OUTCOMES**

Bissell Centre is confident that the Community Space Building will see cost savings from areas such as increased electricity efficiency as well as heat and insulation efficiency in future years. The Centre estimates to see a full ROI for these building upgrades **within three months**.



14.07 tCO2 reduced since 2017



\$2,416.93 In total cost savings From 2017-2019

# **UPCOMING PROJECTS**

### **Building Efficiency Training**

Bissell Centre is expanding its greening employment program in the summer of 2021 to offer basic building efficiency and conversion education, and hire those trainees to improve the building efficiency of their four recently audited facilities. Bissell Centre hopes to upgrade all sites using this approach to establish a more resilient community in Edmonton.







Public Demonstration of Organizational Values New Employment Opportunities for the Community