

The new EnviroSmart Streetlights will:

Save energy and money. The new lower wattage flat lens fixtures use less energy, helping to keep operating costs down. After six to seven years, The City will regain the cost of installing the new fixtures from energy savings.

Reduce greenhouse gas emissions. Using less electricity reduces the emissions produced by gas and coal-burning generators. When all the residential streetlight fixtures have been replaced, carbon dioxide emissions will be reduced by as much as 16,000 tonnes a year.

Reduce glare to increase visibility. Glare is significantly reduced with the new flat lens streetlight fixtures, increasing visibility by directing light onto the roadway and preventing it from shining into the eyes of motorists.

Reduce excessive lighting and light pollution. New ways of designing and providing street lighting have been developed in the last several years. The City is committed to reducing our level of light pollution by using the most efficient design methodologies and streetlight fixtures available.

Maintain a safe level of lighting on The City's residential roads by meeting minimum Illuminating Engineering Society (IES) guidelines.

We would like to hear what you think about the EnviroSmart Streetlights project and your new streetlights. Please visit our website to leave your comments.

www.gov.calgary.ab.ca/roads/streetlight

For more information, call:

The City of Calgary
Corporate Contact Centre

268-CITY (2489)



Infrastructure Canada - Alberta Program
Programme Infrastructures Canada - Alberta



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EnviroSmart streetlights

The City of Calgary
leads the way in:

- Saving money
- Saving energy
- Reducing light pollution
- Protecting the environment.

We are the *first city in North America* to embark on an extensive program to retrofit residential streetlights with new, lower wattage flat lens fixtures.

The City of Calgary will be retrofitting up to 40,000 residential streetlight fixtures between March 2002 and 2007.



Commonly Asked Questions

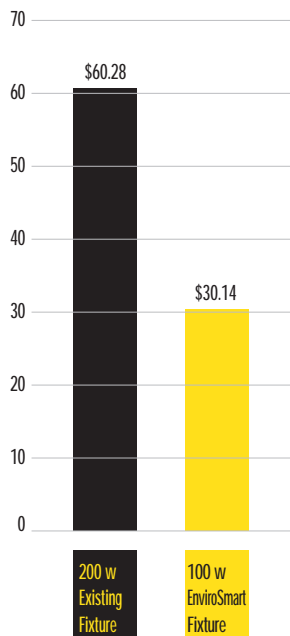
Why is The City of Calgary retrofitting the streetlights now?

Energy prices reached an all time high in January 2001. The streetlight system is The City's single largest electricity consumer. The City needed to find a way to reduce costs in operating the streetlight system. By going to lower wattage fixtures, we will use less energy which will help keep operating costs down. Using less electricity reduces the greenhouse gas emissions from gas and coal-burning generators. When all the residential streetlights have been replaced, carbon dioxide emissions will be reduced by approximately 16,000 tonnes a year.

Will the retrofit cause my taxes to go up?

Funding for the EnviroSmart Streetlights project will come from cost savings derived from saving energy and by postponing scheduled group relamping. (Residential streetlights in Calgary are relamped on a five-year cycle.) By retrofitting streetlights at the rate at which we can recapture savings based on electricity rates and not group relamping, your taxes will not increase.

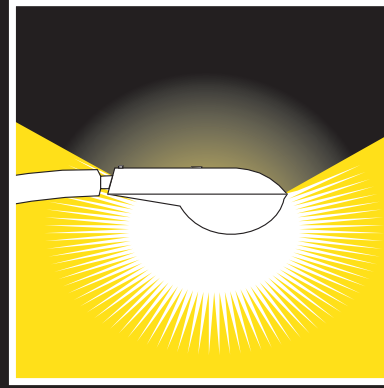
Annual Energy Cost Savings with New 100 w EnviroSmart Fixtures*



* Based on estimated \$0.07 per kilowatt hour. Costs are for comparison purposes only and are not actual costs.

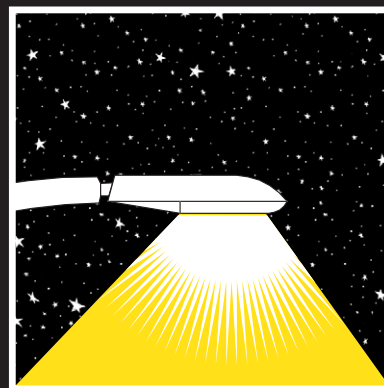
What is light pollution?

Simply put, light pollution is wasted light. You can recognize light pollution by sky glow (the glow at night above cities and towns), light trespass (unwanted light going onto private properties) and glare (harsh light shining in one's eyes).



What does the word "retrofit" mean?

Retrofit is a "buzzword" meaning to change a component (in this case streetlight fixtures) to meet current performance and environmental standards using new technology.



Are all the residential streetlights going to be retrofitted?

Under the guidelines used for this initial portion of the retrofit project, some streetlight locations require special consideration and may not be retrofitted at this time.

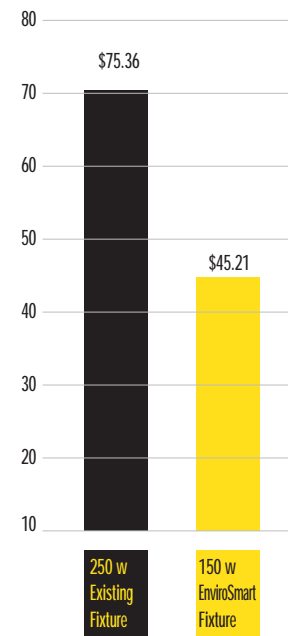
These excluded locations are:

- In front of playgrounds
- In front of parks
- In locations where the spacing between the streetlights is too great
- Some intersections
- Decorative style streetlights.

How is the project being funded?

The City-wide EnviroSmart Streetlights project is estimated to cost \$7.2 million. This project is partially funded by three levels of government (Federal, Provincial and Municipal) under the Infrastructure Canada – Alberta Program (ICAP).

Annual Energy Cost Savings with New 150 w EnviroSmart Fixtures*



ICAP is funding \$3 million of the total cost. The remainder of the cost of the project will be paid for from the cost savings in electricity and by avoiding group relamping. It is estimated that based on current electricity prices, The City will recover the cost of installing the new fixtures over a six to seven-year period, with continued savings of \$2 million a year.