

Solar Panel Installation Rebate

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CITY OF CALGARY
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UEP: Environmental & Safety Management - Actions for Council Approval

For Council Approval

Utilities & Environmental Protection Commitment:

UEP works with the community, the region and The Corporation to achieve air, land, and water goals to help conserve, protect and enhance the environment.

H6 Continue to build public awareness and understanding of our shared responsibility to conserve and protect the environment.

H6.2 Promote brownfield redevelopment achievements to increase public awareness of improved urban vitality and environmental conditions within the city.

EPS

H10 Lead by example and manage regulatory risks to protect public health and the environment.

H10.1 Minimize the environmental impacts from City operations and capital projects, showcasing innovative and practical solutions to show leadership.

EPS ESMS SPS

H10.2 Promote the implementation of the Industrial, Commercial & Institutional Waste Diversion Strategy as a Corporation to lead by example.

EPS

H10.3 Reduce GHG emissions from Corporate sources to be an example for other corporations and municipalities.

EPS

A healthy and green city
We strive to ensure our water while encouraging
healthy lifestyles for all Calgarians

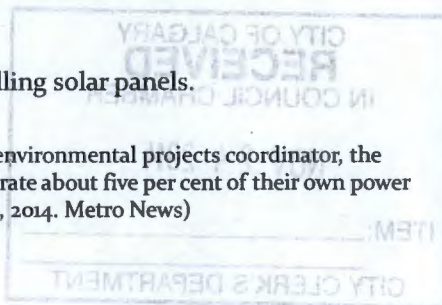
A prosperous city A city of inspiring neighbourhoods A city that moves A healthy and green city A well-run city

EPS - Environmental Programs & Services SPS - Safety Programs & Services ESMS - Strategic Services

21

Minimize the environmental impacts from City operations and capital projects, showcasing innovative and practical solutions to show leadership.

- Solar Panels have been installed at the Bearspaw Operations Workplace Centre.
- The CBE has also begun installing solar panels.
- "According to Earl Badger, CBE environmental projects coordinator, the schools with 40 panels will generate about five per cent of their own power costs." (Helen Pike. November 6, 2014. Metro News)



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EPS?

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neighbourhoods

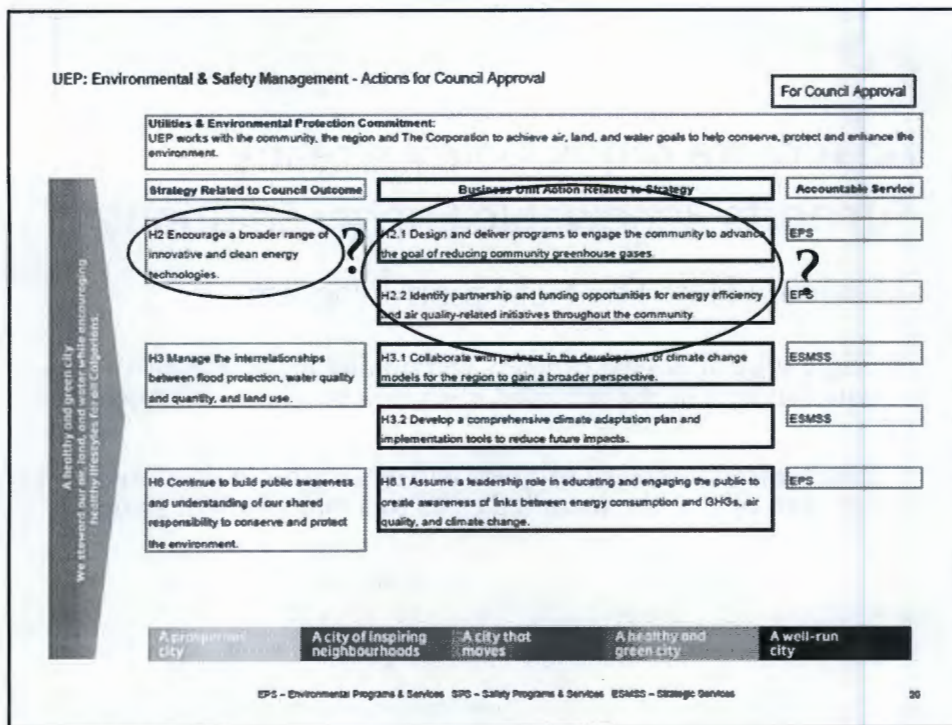
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How to Encourage a broader range of clean energy technologies?

1. Initiate actions and remove barriers
2. Build funding mechanisms for sustained action toward long-term targets

(City of Calgary GHG Reduction Plan 2011, pg 15)

An Alberta Municipality Already Supports Renewable Energy Solutions

Medicine Hat: The Hat Smart Program

- Eligible [residential] projects will qualify for an incentive equal to 25% of the installed costs to a maximum of \$2,500
- Eligible [commercial] projects will qualify for an incentive equal to 25% of the installed costs to a maximum of \$5,000.

# Rebates Paid	Rebate Type
90	Residential Solar Installations
17	Commercial Solar Installations

Why Calgary Should Support Solar?

- Enmax's current residential solar panel lease program was found to cost more than simply buying power from the existing grid.
- "The panels are aimed at those who are philosophically inclined toward solar — it's not intended to save the customer any money." (Gen Gerson. May 21, 2012. The National Post)

Why Calgary Should Support Solar?

- A recent study found that solar panels are subsidizing non solar power costs.
- “By selling at discounted prices, solar PV producers are subsidizing your electricity bill. That lowers your power bill in the short term, but it also discourages people from becoming solar micro-generators.” (Benjamin Thibault. November 12, 2014. The Pembina Institute)

Why Solar Should be Supported

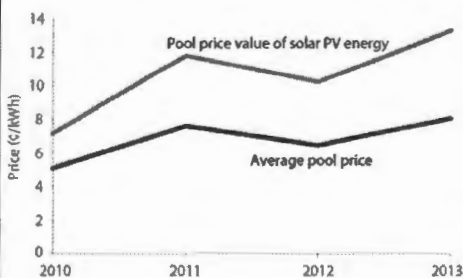


Figure 2: Growing discrepancy between value of solar PV energy and average pool prices. Calculated using data from PVWatts for Calgary and Edmonton solar output, and data from the Alberta Electricity System Operator for average pool prices.

“In 2013, the average pool price of the energy produced by solar PV in Alberta was more than 13 cents per kilowatt-hour (¢/kWh), but producers are only paid between 7¢/kWh and 11.5¢/kWh.”

(Benjamin Thibault. November 12, 2014. The Pembina Institute)

Conclusion

- If Calgary gave rooftop solar adopters an installation rebate the city would:
 - Help meet Calgary's stated environmental goals
 - Demonstrate leadership to other municipalities
 - Do so with less revenue risk due to solar power's subsidization of the existing energy grid