
CITY OF KELOWNA

MEMORANDUM

Date: June 15, 2009
File No.: 1824-02
To: City Manager
From: Electrical Administration Manager
Subject: PowerSense Program

RECOMMENDATION:

THAT Council receive, for information, the report of the Electrical Administration Manager dated June 15, 2009.

BACKGROUND:

In January, 2009 a report was submitted to Council requesting approval for an increase to the City Of Kelowna Electrical rates. At that time, it was requested that a presentation be given to Council on power conservation and public awareness. This presentation will briefly describe PowerSense, its mandate, incentive program and how it impacts the City of Kelowna.

The PowerSense program was created in 1989, to help customers conserve energy and get the most out of their energy dollar by providing financial incentives and advice on the energy efficient technologies and practices.

PowerSense programs are available to FortisBC customers, and also customers of the following municipal utilities: Grand Forks, Kelowna, Penticton, Summerland and Nelson Hydro.

The Program is available to:

- Homeowners
- Business
- Residential Developers & Builders
- Kids and Youth Interactive Website

PowerSense partners with Live Smart BC, ecoEnergy and SolarBC.

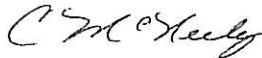
Over the past 18 years, the program has saved enough energy to meet the annual energy needs of over 24,000 households and saved customers \$18 million!

The PowerSense program achieved provincial and national recognition, including a 2000 BC Minister of Environment Award and a 2003 Canadian Energy Efficiency Award from the federal government.

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INTERNAL CIRCULATION TO: N/A
LEGAL/STATUTORY AUTHORITY: N/A
LEGAL/STATUTORY PROCEDURAL REQUIREMENTS: N/A
EXISTING POLICY: N/A
FINANCIAL/BUDGETARY CONSIDERATIONS: N/A
PERSONNEL IMPLICATIONS: N/A
TECHNICAL REQUIREMENTS: N/A
EXTERNAL AGENCY/PUBLIC COMMENTS: N/A
COMMUNICATIONS CONSIDERATIONS: N/A
ALTERNATE RECOMMENDATION: N/A

Submitted by:



Cindy McNeely
Electrical Administration Manager

Approved for Inclusion:



John Vos – General Manager, Community Services

cc: Joe Creron – Director, Civic Operations



Building...

a conservation culture



FORTISBC

PowerSense: A Brief History

- ***Began in 1989***
- ***Longest demand-side management (DSM) program in Canada***
- ***Over past 20 years***
 - ***Saved 329 GWh of energy enough to power over 25,000 homes a year***
 - ***Saved customers \$18 million***



Why PowerSense

- *Reduce requirement for purchase of expensive spot-market electricity*
- *Reduce/delay the need for system upgrades*
- *BC Energy Plan – DSM to meet 50% of load growth by 2020*

The BC Energy Plan
A Vision for Clean Energy Leadership

PowerSense: What We Do

- **Energy Efficiency – product/technology rebates and energy evaluations**
- **Energy Conservation**
 - **Education – school programs**
 - **Advertising/social marketing**
 - **Community outreach**
 - **tradeshows**
 - **community events**



PowerSense: What We Do

- Residential programs

- Space heating

- Lighting

- Building envelop



PowerSense: What We Do

• *Institutional, Commercial, Industrial*

• *Lighting*

• *Compressors*

• *Space heating*



Partnerships

- *LiveSmart BC*
- *ecoEnergy*
- *SolarBC*
- *More partnerships to come*



LiveSmart BC

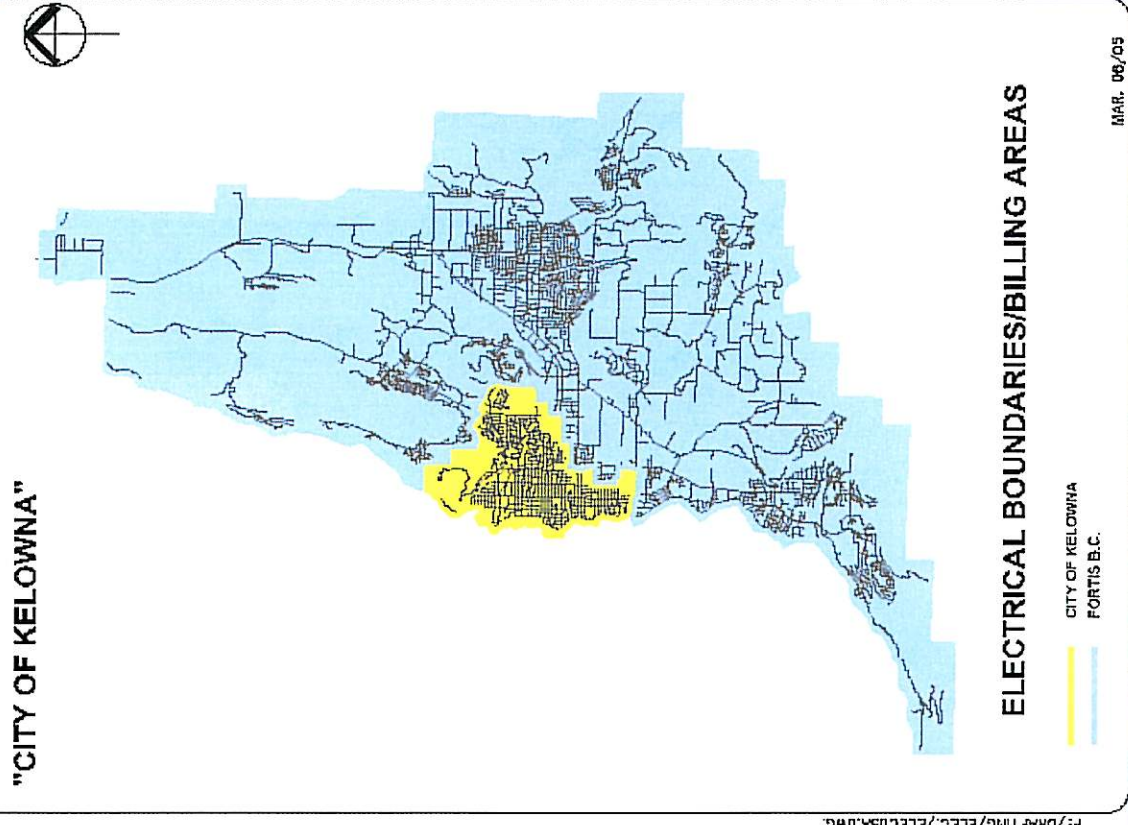


ecoENERGY



FORTISBC

PowerSense: City of Kelowna



PowerSense: City of Kelowna, 2008 results

Program	No.	Savings (kWh)	Savings (kW)	Rebate
Air source heat pumps	19	150,967	8.2	\$6026
Commercial lighting	16	1,191,675	178.6	\$44,857
ICI New BIP	1	395,764	22.4	\$16,937
Geo-exchange	1	12,402	3.4	\$568
New home construction	5	94,266	25.2	\$5,163
Residential home improvement	6	12,453	3	\$840
Residential lighting	19	562,871	188.7	\$9,488
TOTAL		2,420,398	429.2	\$83,882

New Programs – Incentives and Rebates

- ***New Home***
- ***Insulated Concrete Forms (ICF)***
- ***Heat Recovery Ventilator (HRV)***
- ***LED Lighting***
- ***EnergyStar Appliances***
- ***Solar hot water***



New Programs – Community Conservation

- *Laundry promotion*
- *Appliances and electronics*
- *Business walk thru audits*
- *Low income*
- *Rental assistance*
- *Conservation culture*



Let it all hang out.

Join the clothesline revolution.
Using a simple clothesline to dry your laundry will make your whites brighter and your clothes will smell fresher, and last longer. Plus, you will be saving energy and money!

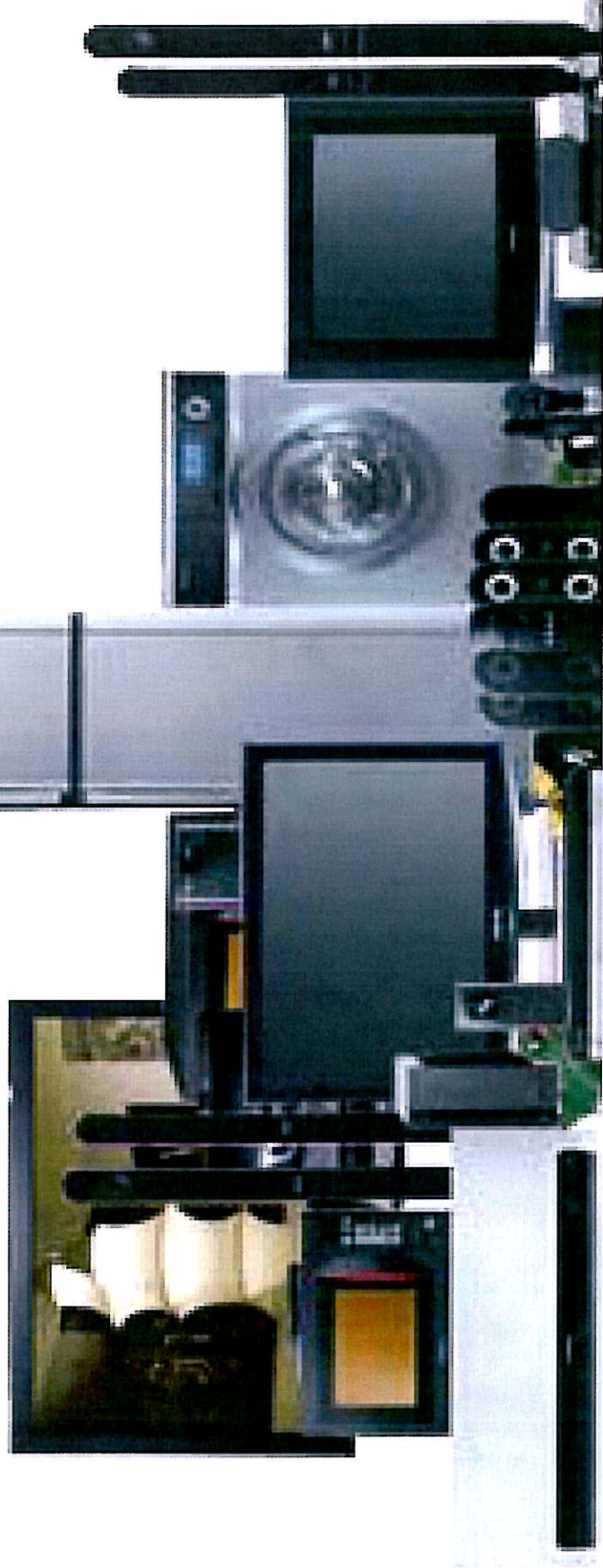
Pick Up Your Free Clothesline Here

For more information visit
www.fortisbc.com

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powersense

Using energy wisely

***Which appliance in your home uses
the most energy?***



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Using energy wisely

*Two digital cable receivers
consume as much electricity
as one refrigerator*



525 kWh/year

441 kWh/year



42" Plasma

123 kWh/year



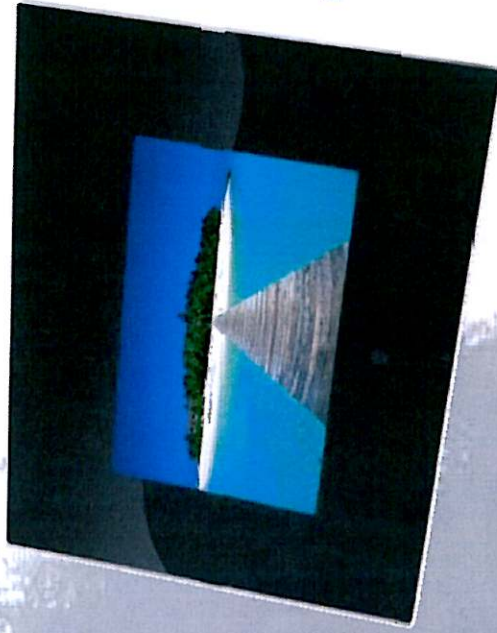
27" CRT

**Plasma TVs consume 3.5x
more energy than old CRT
model TVs**

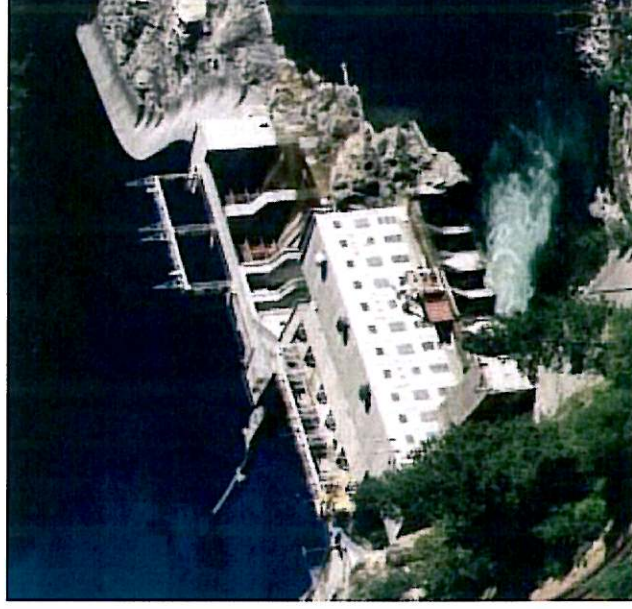
Using energy wisely

Digital photo frames

- 1 per Cdn home



138 MW Generating Station



Thank you

FORTISBC