

RE: B.C. HYDRO'S "POWER SMART" ENERGY EFFICIENCY PROGRAM

ACTING MUNICIPAL MANAGER'S RECOMMENDATION:

1. THAT the recommendations of the Director Engineering be adopted.

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TO: MUNICIPAL MANAGER

1990 JANUARY 24

FROM: DIRECTOR ENGINEERING

SUBJECT: B.C. HYDRO'S "POWER SMART" ENERGY EFFICIENCY PROGRAM

PURPOSE: To respond to a letter from B.C. Hydro regarding its "Power Smart" Energy Efficient Program.

RECOMMENDATIONS:

1. THAT Council endorse the attached Electrical Energy Efficiency Policy.
2. THAT a copy of this report be sent to B.C. Hydro and Power Authority.

REPORT

Appearing on the agenda for the Council meeting of 1990 January 08 was a letter dated 1989 December 15 from B.C. Hydro regarding its "Power Smart" Energy Efficiency Program. The letter from B.C. Hydro sought the following action of Council:

"THAT authority be given to prepare for the consideration of Council a report outlining the following:

- (a) a draft electrical energy efficiency policy,
- (b) a statement on the budgetary ramifications, if any, of the adoption of such a policy,
- (c) an implementation strategy for the policy, and
- (d) any 1990 draft budget requirements."

This report provides a historical perspective on the Corporation's energy management program and responds to the points raised by B.C. Hydro.

The Corporation established an Energy Conservation Staff Committee in 1983. The mandate of the Committee included all aspects of energy use within the Corporation however the primary thrust was directed towards Municipal buildings which are the largest users of energy within the Municipal operation. The B.C. Hydro "Power Smart" program offers a free energy audit of a Municipal building. Staff applied for this audit in May 1989 and selected the Bonsor Recreation Centre because it is the largest single Municipal consumer of energy. The audit was conducted by B.C. Hydro in December 1989 and we are presently awaiting the conclusions from B.C. Hydro.

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A similar energy audit program was made available by the Federal Government, Department of Energy, Mines and Resources in the early 1980s. This program which was Provincially administered was colloquially known as the "Energy Bus Program". Some Council members will recall that the Municipality took advantage of these mobile audits and four buildings were reviewed in 1984, namely:

- Burnaby Lake Arena
- Kensington Park Rink
- Bonsor Park Pool
- Eastburn Recreation Centre

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At the same time in 1984, the Corporation retained Pomeroy Engineering Ltd. to advise on energy conservation measures in the following buildings:

- Cameron Recreation Centre & Library
- Kensington Ice Arena
- C.G. Brown Pool
- Municipal Hall - Lighting Systems

These buildings were selected because of their high energy use plus their typical yet diversified functions. Independent reviews have also been conducted on the Municipal Hall Complex buildings.

As a result of the information garnered from the various audits and reviews, many conservation measures have been implemented. Following these initial upgradings, staff have taken an ongoing approach to energy management on a building maintenance basis. The recommendations developed from the reviews of specific buildings have been applied in principle throughout Municipal facilities in general. Council has been provided with previous reports on the specifics of the energy management techniques implemented. The merits of individual measures are assessed on the basis of their simple pay back period. The Capital Budget has a provision for Energy Conservation which states:

"The Corporation has a continuing program to reduce energy consumption in Municipal buildings and equipment operation. Projects are undertaken subject to cost benefit analysis and reports to Council."

Any balance which remains unexpended at year end is brought forward to the subsequent year. At present, approximately \$146,000 remains unexpended in this account.

The B.C. Hydro correspondence to Council included a draft Electrical Energy Efficiency Policy (copy attached) which B.C. Hydro recommended be adopted by Council. The policy statement as drafted embodies many of positions and attitudes already undertaken by staff, however, we are of the opinion that formal adoption of such a policy would be a positive reinforcement of these concepts.

Staff will provide Council with a further report, as appropriate, following receipt of the findings of the energy audit on Bonsor Recreation Centre.


DIRECTOR ENGINEERING

WCS:je
Attach.

cc: Director Finance
Director Recreation & Cultural Services

Electrical Energy Efficiency Policy

Purpose

Reducing the consumption of energy through wise energy management and introducing appropriate energy-efficient technology, without compromising occupants' health, comfort and safety, will lower operating costs and demonstrate our support for the responsible use of our natural resources.

Policy

This municipality is committed to using electricity to its highest economic efficiency in planning, constructing and operating all the facilities under its jurisdiction.

Each member of management is responsible for the energy-efficient operation of his/her area of responsibility, and each employee has a vital role to play in supporting this policy.

Principles

To carry out this policy, the Municipality of _____ will:

1. Maintain an active and aggressive energy efficiency awareness among all employees.
2. Consider life cycle costs when purchasing new equipment and when undertaking major repairs to equipment. That is, products and systems with superior efficiency, which will pay for their premium costs—including maintenance cost—within half of their usable life, will be preferred.
3. Provide, within reason, the best available energy-efficient systems and fuel sources.
4. Upgrade existing facilities and equipment to higher efficiency where the change offers a simple payback of five years.
5. Maintain energy use equipment and systems to energy-efficient standards.
6. Maintain a continuous education program in energy efficiency procedures and practices for all staff.
7. Encourage all employees to suggest and initiate projects that will save money.
8. Ask all employees to observe established energy management practices.
9. Monitor electrical consumption so that energy efficiency goals can be established and performance measured and reviewed annually.

