

Energy Management Plan

Municipality of Greenstone

From: 2014-01-01 to: 2018-12-31

Commitment

- **Declaration of Commitment:** We will allocate the necessary resources to develop and implement a strategic energy management plan that will reduce our energy consumption and its related environmental impact.
- **Vision:** We exercise stewardship in our use of finite energy resources to demonstrate leadership, optimize our delivery of services, and enhance the overall quality of life in our community.
- **Goals:** To continuously improve the energy efficiency of our facilities and processes in order to reduce our operating costs and our energy consumption.
- **Overall Target:** We will reduce our consumption of fuels and electricity in all municipal operations by an average of 1% per year between now and 2018.
- **Objectives:** 1. To implement energy audits on all water and waste water facilities during the next two years; 2. To reduce total energy consumption in municipal facilities, normalized to weather conditions, by 3% over the next three years; 3. To reduce energy consumption in the Geraldton recreation complex by 2% during fiscal year 2015/2016.

Organizational Understanding

- **Summary of Current Energy Consumption:** The total annual consumption for our 45 listed facilities in 2012 is 7566592.67 ekWh/yr. (Equivalent Kilowatt Hours per Year)
- **Renewable Energy Utilized or Planned:** The Municipality of Greenstone aspires to show leadership in the promotion and development of renewable energy systems that are compatible with our asset management plan.

Strategic Planning

- **Links with other municipal plans:** As an integral component of the management structure, the energy management plan is coordinated with the municipality's budget planning process, preventative maintenance plans, environmental management plan, and the overall asset management plan.

Resources Planning

- **Energy Leader:** We will clearly designate leadership and overall responsibility for corporate energy management.

Projects Execution

- **Municipal Level:** The implementation of this plan will be the responsibility of the Manager of Facilities and Parks. Since we all use energy in our daily activities, it will also be the responsibility of all Municipal staff to be aware of their energy use and work towards a culture of conservation.
- **Asset Level:** The energy Audit conducted at the Geraldton Complex highlighted that considerable energy is consumed on the two pad rink areas by high intensity discharge (HID) lighting. We will replace the HID lights on the Geraldton arena pad ice surface with High Bay T5 fluorescent lighting in the 2015 budget year. We will replace the HID lights on the Longlac Sportsplex arena pad ice surface with High Bay T5 fluorescent lighting in the 2016 budget year. The use of renewable energy measures can also help reduce overall greenhouse gas emissions. The investment of these type of measures should be considered on a case-by-case basis through a cost and environmental benefits analysis.

Review

- **Energy Plan Review:** We will review and evaluate our energy plan, revising and updating it as necessary, on an annual basis within our corporate planning process.

Evaluation Progress

- **Energy Consumption:** Our energy consumption in 2012 was reduced to 7566592.67 ekWh/yr from our 2011 levels of 7838692.53 ekWh/yr.

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