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Date: August 12, 2019

To: Mayor and Council

Author: Dan Wolicki, Manager of Municipal Facilities and Properties

RE: Five (5) Year Energy Plan Update

Report No.: MS 2019-34

AIM

To advise council of the five (5) year energy plan that has been developed for the Town of Kingsville to satisfy the requirements of the Green Energy Act Ontario Regulation 507/18.

BACKGROUND

In 2014, Ontario's Green Energy Act was created to expand renewable energy generation, encourage energy conservation and promote the creation of clean energy jobs. With the implementation of the Energy Act, public agencies are required to report yearly on the total energy usage for all facilities that meet the necessary requirements. Energy reporting and conservation planning will help public agencies manage electricity usage and costs, identify energy savings opportunities, evaluate results by comparing similar facilities across the province, and measure improvement over time.

Public sector organizations were required to develop a five (5) year Energy Conservation and Demand Management (ECDM) Plans that will need to be updated every five (5) years beginning in 2019.

DISCUSSION

The Town of Kingsville's Energy Conservation and Demand Management (ECDM) Plan was developed in response to Ontario Regulation 507/18 which requires all public sector organizations to complete an update to the original plan in 2014. The comprehensive plan provides effective methods of identifying energy conservation opportunities and to guide the Town towards a more energy-efficient future.

Baseline energy usage from 2013 was used as the base year for the measurement to evaluate the effectiveness of the energy conservation measures from the original plan in 2014. The Town had set a target of 5% reduction in energy consumption over the five (5)

year term of the plan (2014-2019) in which the target was not only met but exceed it with an overall 7.89% reduction.

VIP Energy Services was retained to assist in updating the original energy plan. Energy audits were completed to identify possible energy savings initiatives throughout the municipality.

Going forward, we will begin to evaluate the cost of implementing initiatives vs the payback period to determine which projects and upgrades are feasible in an effort to achieve the goal of a 5% reduction in energy from 2019-2024.

The five (5) year plan can be accessed through the Town's website, please visit:

www.kingsville.ca/en/our-community/utilities-water-and-wastewater

LINK TO STRATEGIC PLAN

To become a leader in sustainable infrastructure renewal and development.

FINANCIAL CONSIDERATIONS

Variations of costs pertain to upgrading equipment to high efficiency models that can range from hundreds to thousands of dollars. Each project initiative will be evaluated to determine if the investment is worth the savings in energy and the duration to recover the investment.

CONSULTATIONS

VIP Energy Services
Municipal Services

RECOMMENDATION

For Council to receive the information and the plan to be posted on the Town's website along with hard copies to made available at Town Hall.

Dan Wolicki

Dan Wolicki,
Manager of Municipal Facilities and Properties

G.A. Plancke

G.A. Plancke, Civil Eng. Tech (Env)
Director of Municipal Services

Peggy Van Mierlo-West

Peggy Van Mierlo-West, C.E.T.
Chief Administrative Officer