

Chapleau Public Utilities Corp.

GREEN ENERGY ACT PLAN

SEPTEMBER 2011

INTRODUCTION

Chapleau Public Utilities Corporation (CPUC) is a licensed electricity distributor for the Town of Chapleau servicing approximately 1,300 customers. As a condition of license and in accordance with the Ontario Energy Board's (OEB) filing requirements of EB-2009-0397, Distribution System Plans – Filing under Deemed Conditions of License, CPUC has prepared a basic Green Energy Act Plan (GEA Plan) for its franchise area for the 2012 to 2016 period.

The GEA Plan is intended to provide information to the OEB and interested stakeholders regarding the preparedness of CPUC's distribution system to accommodate the connection of renewable generation and the expansion or reinforcement necessary to accommodate renewable generation and the development of the smart grid.

Chapleau is located in northern Ontario as shown in Figure 1 below. The service territory for CPUC is primarily the municipal boundaries of the town and is shown in Figure 2.

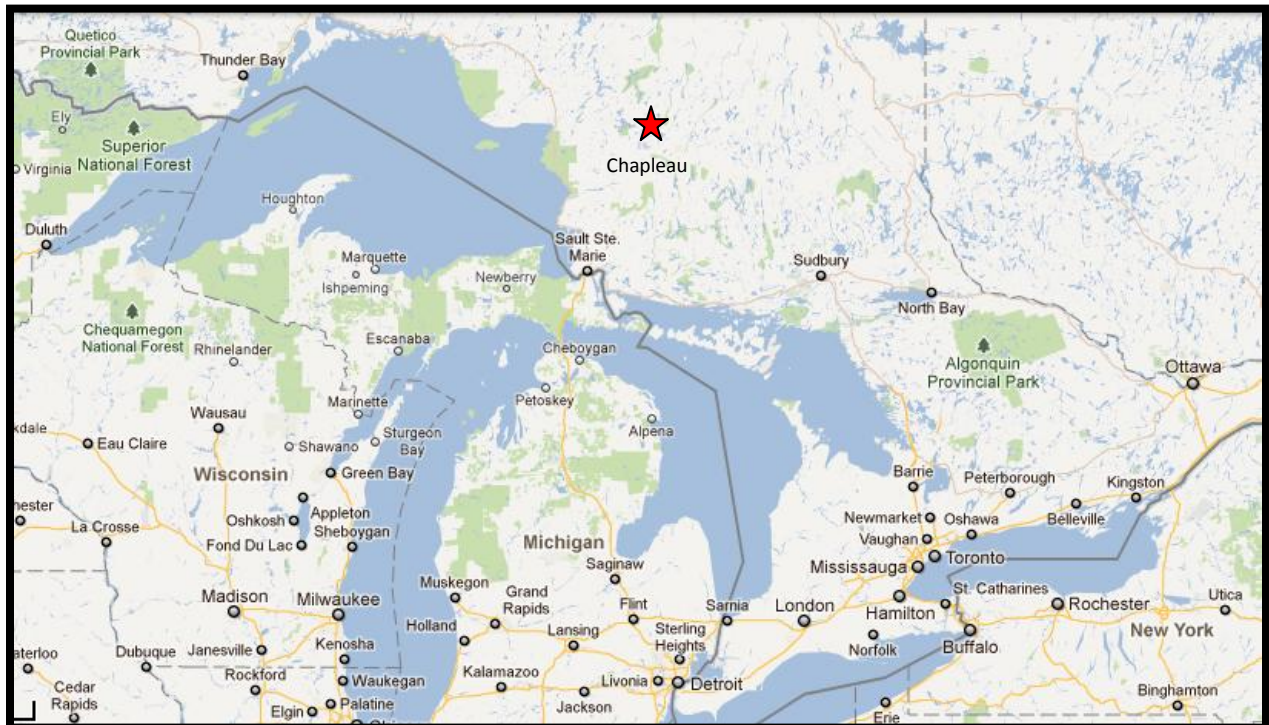


Figure 1 – Partial map of Ontario

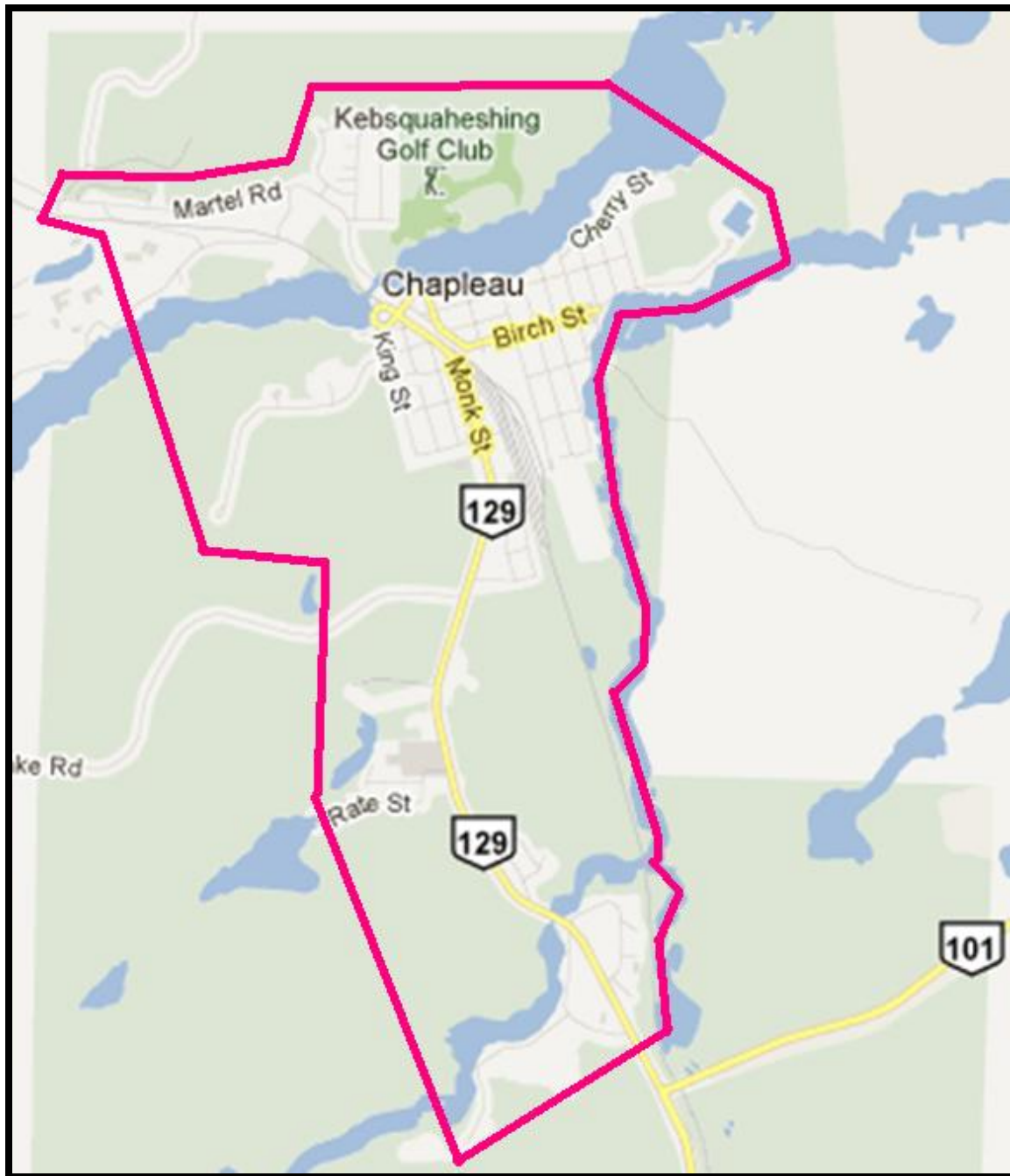


Figure 2 – Chapleau PUC's service territory

In preparing this document CPUC consulted with Hydro One Networks Inc. (HONI) & the Ontario Power Authority (OPA).

OVERVIEW OF CHAPLEAU's DISTRIBUTION SYSTEM

CPUC's distribution system is connected to the 115 kV transmission system through Chapleau DS. The distribution system is comprised of two voltage systems: one at 4.16 kV and the other at 25 kV. CPUC owns two 115-4.16 kV transformers at the DS totalling 6.2 MVA which supply 3 feeders. In addition, CPUC has one 25 kV feeder supplied by HONI which is limited to supplying approximately 3.5 MVA of capacity.

Approximately 60% of the distribution assets are rated at 4.16 kV and 40% are rated at 25 kV.

CURRENT ASSESSMENT OF CPUC's DISTRIBUTION SYSTEM

Both distribution systems are capable of accepting connections for renewable generation. There have been no formal engineering studies conducted with respect to the quantity of renewable generation that may be connected to CPUC's distribution system; however the following general information is provided for the two distribution voltages.

For the 25 kV system, HONI has advised that as of July of this year Chapleau DS is currently among the list of stations under restricted status and no offers to connect may be provided until the station status changes. With respect to the 4.16 kV distribution system, the capacity for renewable generation connections has been set at 930 kW representing 15% of the rating of the distribution transformers and does not reflect any 115 kV transmission constraints. This value will be adjusted as applications are received and will be balanced against any constraints on the transmission system identified by HONI.

There are no expenditures related to renewable generation connections or smart grid that are included in capital plans, funded in current rates, or tracked in deferral accounts.

There are no relevant unique challenges or opportunities associated with the distribution system as it is currently configured.

PLANNED DEVELOPMENT OF THE SYSTEM

CPUC has been informed that no applications for renewable generators have been received by the OPA through the FIT program within the CPUC service area. Further, CPUC has not received any requests for microFIT connection or consultation. Consequently, there has been no requirement for any development of the system to accommodate the connection of renewable generation. The OPA has advise there is no regional planning issues that would impact Chapleau PUC in the near future.