Taykwa Tagamou Nation

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Request for Proposals (RFP)

Electrical Load Forecasting, Distribution Capacity Assessment, Hydro One NCCI & Subdivision Application Support

Issued by: Taykwa Tagamou Nation

RFP Issue Date: Tuesday February 10, 2026

Proposal Submission Deadline: February 17th, 2026 by 4PM EST

1. Background and Context

Taykwa Tagamou Nation (TTN) is undertaking medium- and long-term planning for multiple new community buildings and potential residential, mixed-use, and institutional subdivisions. Anticipated developments may include housing, administrative and cultural facilities, community services infrastructure, and economic development assets. These developments will result in incremental electrical demand that must be evaluated in the context of existing and future distribution system capacity.

TTN is seeking qualified electrical engineering or utility planning consultants to perform a planning-level electrical load assessment and distribution capacity review to support early-stage coordination with Hydro One. The work will inform infrastructure sizing, development phasing, and utility engagement, including preparation of Hydro One New Customer Connection Information (NCCI) applications and review of the Hydro One subdivision application process.

In parallel, TTN wishes to understand how Distributed Energy Resources (DERs)—including photovoltaic generation, battery energy storage, and demand-side measures—may influence net load, peak demand, and distribution system requirements from a utility planning perspective.

2. Objectives

The primary objectives of this assignment are to develop defensible electrical load forecasts, assess distribution-level servicing implications, and provide engineering guidance that enables efficient and well-informed engagement with Hydro One. The intent is to identify potential constraints, risks, and cost drivers early in the planning process, prior to detailed design.

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3. Scope of Work

The scope of work described below is intended to be completed at a planning and pre-design level. The assignment does not include detailed electrical design, protection coordination studies, or stamped construction drawings unless explicitly added as an optional scope item.

Task 1 – Development and Load Input Review

The consultant shall review the planned and anticipated developments listed in Appendix A. This review shall include assessment of building classifications, estimated gross floor areas, unit or lot counts, intended occupancies, and anticipated development phasing. The consultant shall identify missing inputs and apply reasonable engineering assumptions consistent with Ontario utility planning practices, clearly documenting all assumptions used.

Task 2 – Electrical Load Modelling

The consultant shall develop electrical load estimates for each building or development component. Load estimates shall include peak demand (kW) and, where appropriate, coincident demand assumptions. Annual energy consumption (kWh) estimates may be provided where they support planning conclusions.

Load modelling shall explicitly consider electrification drivers, including electric space heating, heat pump adoption, electric domestic hot water, and electric vehicle charging readiness. Low, base, and high growth scenarios shall be developed to reflect uncertainty in technology adoption and development timing.

Task 3 – Community-Level Demand Forecast

Building-level load estimates shall be aggregated into a community-level electrical demand forecast. The forecast shall identify incremental demand growth by phase and assess impacts on coincident peak demand. Results shall be structured in a manner suitable for utility screening and preliminary capacity review.

Task 4 – Distribution System and Servicing Implications

Using the demand forecast, the consultant shall perform a high-level assessment of distribution system servicing implications. This assessment shall consider service voltage options, transformer capacity, primary feeder loading, and potential upstream constraints, based on publicly available information and typical Hydro One distribution planning criteria.

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This task is intended to identify potential capacity risks and planning considerations and does not constitute a detailed system impact study or protection assessment.

Task 5 – Hydro One NCCI Application Support

The consultant shall prepare the technical load and development inputs required to support one or more Hydro One New Customer Connection Information (NCCI) submissions. This includes consolidated load tables, assumptions, phasing schedules, and anticipated in-service dates. The consultant shall support TTN in aligning technical inputs with Hydro One's NCCI requirements and responding to clarification requests as they arise.

Task 6 – Hydro One Subdivision Application Process Review

The consultant shall review Hydro One's subdivision application process as it applies to the planned developments. This review shall clarify triggers for subdivision applications versus NCCI submissions, required technical inputs, review timelines, and typical cost responsibility frameworks, including Contributions in Aid of Construction (CIAC). The consultant shall provide an engineering-focused roadmap outlining how subdivision approvals, NCCI submissions, and subsequent detailed design typically proceed.

Task 7 – Engineering Recommendations and Path Forward

The consultant shall provide engineering recommendations related to load management, development phasing, and coordination of NCCI submissions, subdivision applications, and DER planning. The consultant shall identify next steps and decision points that would trigger more detailed engineering studies, system impact assessments, or refined cost estimates.

4. Deliverables

Deliverables shall include a technical memorandum documenting assumptions, methodology, load forecasts, distribution planning considerations, and DER impacts. Additional deliverables shall include NCCI-ready load input tables, a subdivision application process summary tailored for engineering review, a DER planning summary, a technical presentation, and editable calculation files.

5. Proponent Qualifications

Proponents shall demonstrate experience in electrical load forecasting, utility distribution planning, and coordination with Hydro One or similar Ontario utilities. Experience supporting Indigenous community infrastructure planning is considered a strong asset.

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6. Proposal Submission Requirements

Proposals shall include a description of the technical approach, identification of key personnel, relevant project experience, a proposed schedule, fee structure, and references.

7. Evaluation Criteria

Proposals will be evaluated based on technical merit, demonstrated understanding of utility planning processes, relevant experience, and overall value.

8. Timeline

Due Date of application: February 17th, 2026

Attention to: Cecile Ross, Community Climate & Energy Manager, cecile@taykwatagamou.com

And CC to: Kayla Viau, TTN Councillor, kayla@taykwatagamou.com

Proponent will be chosen on or before: February 20th, 2026

Applications to Hydro One to be submitted by: March 20th, 2026

Proponents are requested to comment on the timelines.

Appendix A – Planned and Anticipated Developments

Appendix A has the identified the plan and anticipated buildings and developments to be used as load inputs for this assignment.

Appendix A: Capital Needs List, as of January 2026

Capital Project	Location (proposed)	Status
Elders Centre with 8 apartments and common area and kitchen	By youth centre	In-Construction
Child Wellbeing Building	Across from youth centre	Feasibility
Health Center		Conceptual
Nishnawbe Aski Police Service Building	Old gas station location	Pre-Construction
Emergency Services Building	Across from youth centre (Abitibi road)	RFP
Industrial Park	Railroad tracks	Conceptual
Business and Administrative Plaza for office rentals	Industrial Park	Conceptual
Island Falls Forestry Industrial Mechanic Garage and Office	Industrial Park	Conceptual
Gas Station & Store	Industrial Park	Partially In-Service
Community Arena		Design Stage
Tiny home micro subdivision 23 lots	Behind Melissa's home	Design Stage
3 Post majority tiny homes		Application submitted
Daycare		Application to be developed
Geothermal Greenhouse	South side of youth centre	Pre-Construction
Growcers hydroponics farm	South side of youth centre	Application submitted
Cultural grounds	Crown land south of youth centre	Conceptual
Recreation Center with Pool	Near Arena Location	Conceptual
Water Plant and lagoon		Feasibility set to start soon
Lift stations		
Hydro – phase 3 power		
Road infrastructure		
Solar Farm (need to determine how many megawatts)	Near industrial park	
Restore and upgrade cemetery		
Wade Lake Healing Lodge	Outside Community	

Appendix A: Capital Needs List, as of January 2026

Emergency services building		
Street lighting		
Nursing home		
Elementary school		
Water tower		
Administrative building		Conceptual
Restaurant		Conceptual
Fire Pumps		
Community operations building with Garage/maintenance shop		
Customary care homes		
Industrial Laundry Center	Industrial Park	Conceptual
Evacuation Center		Conceptual

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