

Ontario Energy Board

**Preliminary Filing Requirements
For a Notice of Proposal under Sections 80 and 81
Of the *Ontario Energy Board Act*, 1998**

INSTRUCTIONS:

This form applies to all applicants who are providing a Notice of Proposal to the Ontario Energy Board (the "Board") under sections 80 and 81 of the *Ontario Energy Board Act*, 1998 (the "Act"), including parties who are also, as part of the same transaction or project, applying for other orders of the Board such as orders under sections 86 and 92 of the Act.

The Board has established this form under section 13 of the Act. Please note that the Board may require information that is additional or supplementary to the information filed in this form and that the filing of the form does not preclude the applicant from filing additional or supplementary information.

PART I: GENERAL MINIMUM FILING REQUIREMENTS

All applicants must complete and file the information requested in Part I.

1.1 Identification of the Parties

1.1.1 Applicant

Name of Applicant Northland Power Solar Empire Limited Partnership	File No: (Board Use Only)	
Address of Head Office 30 St. Clair Ave. West, Suite 1700 Toronto, ON M4V 3A1	Telephone Number 416 962 6262	
	Facsimile Number 416 962 6266	
	E-mail Address rob.miller@northlandpower.ca	
Name of Individual to Contact Robert Miller Manager, Solar Development	Telephone Number 647 288 1066	
	Facsimile Number 416 962 6266	
	E-mail Address rob.miller@northlandpower.ca	

**Northland Power Solar Empire L.P., Northland Power Solar Martin's Meadows L.P.,
Northland Power Solar Abitibi L.P., Northland Power Solar Long Lake L.P.**

Name of Applicant Northland Power Solar Martin's Meadows Limited Partnership	File No: (Board Use Only)	
Address of Head Office 30 St. Clair Ave. West, Suite 1700 Toronto, ON M4V 3A1	Telephone Number 416 962 6262	
	Facsimile Number 416 962 6266	
	E-mail Address rob.miller@northlandpower.ca	
Name of Individual to Contact Robert Miller Manager, Solar Development	Telephone Number 647 288 1066	
	Facsimile Number 416 962 6266	
	E-mail Address rob.miller@northlandpower.ca	

Name of Applicant Northland Power Solar Abitibi Limited Partnership	File No: (Board Use Only)	
Address of Head Office 30 St. Clair Ave. West, Suite 1700 Toronto, ON M4V 3A1	Telephone Number 416 962 6262	
	Facsimile Number 416 962 6266	
	E-mail Address rob.miller@northlandpower.ca	
Name of Individual to Contact Robert Miller Manager, Solar Development	Telephone Number 647 288 1066	
	Facsimile Number 416 962 6266	
	E-mail Address rob.miller@northlandpower.ca	

**Northland Power Solar Empire L.P., Northland Power Solar Martin's Meadows L.P.,
Northland Power Solar Abitibi L.P., Northland Power Solar Long Lake L.P.**

Name of Applicant Northland Power Solar Long Lake Limited Partnership	File No: (Board Use Only)	
Address of Head Office 30 St. Clair Ave. West, Suite 1700 Toronto, ON M4V 3A1	Telephone Number 416 962 6262	
	Facsimile Number 416 962 6266	
	E-mail Address rob.miller@northlandpower.ca	
Name of Individual to Contact Robert Miller Manager, Solar Development	Telephone Number 647 288 1066	
	Facsimile Number 416 962 6266	
	E-mail Address rob.miller@northlandpower.ca	

1.1.2 Other Parties to the Transaction or Project

If more than one attach list

Name of Other Party Northland Power Inc.	Board Use Only	
Address of Head Office 30 St. Clair Ave. West, Suite 1700 Toronto, ON M4V 3A1	Telephone Number 416 962 6262	
	Facsimile Number 416 962 6266	
	E-mail Address rob.miller@northlandpower.ca	
Name of Individual to Contact Robert Miller Manager, Solar Development	Telephone Number 647 288 1223	
	Facsimile Number 416 962 6266	
	E-mail Address rob.miller@northlandpower.ca	

1.2 Relationship between Parties to the Transaction or Project

1.2.1

Attach a list of the officers, directors and shareholders of each of the parties to the proposed transaction or project.

Northland Power Solar Empire Limited Partnership (“NPS Empire”) has one general partner: Northland Power Solar Empire GP Inc. NPS Empire’s limited partners are Northland Power Inc. (“NPI”) and Northland Power Limited Partner Holdings Inc. (“Holdings”).

Northland Power Solar Martin's Meadows Limited Partnership (“NPS Martin’s Meadows”) has one general partner: Northland Power Solar Martin's Meadows GP Inc. NPS Martin’s Meadows’ limited partners are NPI and Holdings.

Northland Power Solar Abitibi Limited Partnership (“NPS Abitibi”) has one general partner: Northland Power Solar Abitibi GP Inc. NPS Abitibi’s limited partners are NPI and Holdings.

Northland Power Solar Long Lake Limited Partnership (“NPS Long Lake”) has one general partner: Northland Power Solar Long Lake GP Inc. NPS Long Lake’s limited partners are NPI and Holdings.

NPS Empire, NPS Martin’s Meadows, NPS Abitibi and NPS Long Lake are collectively referred to as the “Applicants”.

The following are lists of directors and officers of Northland Power Solar Empire GP Inc., Northland Power Solar Martin’s Meadows GP Inc., Northland Power Solar Abitibi GP Inc., and Northland Power Solar Long Lake GP Inc., the general partners of the Applicants:

<u>DIRECTORS</u>	<u>OFFICERS</u>
John W. Brace	John W. Brace, President and Chief Executive Officer
Paul J. Bradley	Salvatore (Sam) Mantenuto, Chief Operating Officer and Chief Development Officer
	Paul J. Bradley, Chief Financial Officer
	Anthony (Tony) F. Anderson, Chief Investment Officer
	Michael D. Shadbolt, Secretary, Vice-President and General Counsel

1.2.2	Attach a corporate chart describing the relationship between each of the parties to the proposed transaction or project and each of their respective affiliates.	
	Please refer to attachment 1.2.2 to this Notice.	

1.3 Description of the Businesses of Each of the Parties

1.3.1	<p>Attach a description of the business of each of the parties to the proposed transaction or project, including each of their affiliates licenced under the OEB Act to operate in Ontario for the generation, transmission, distribution, wholesaling or retailing of electricity or providing goods and services to companies licenced under the OEB Act in Ontario ("Electricity Sector Affiliates").</p>	
	<p>The Applicants are in the business of developing, constructing, owning and operating renewable generation projects and related facilities. The Applicants are constructing four (4) 10 MW ground mount solar electricity generation facilities in the vicinity of the Town of Cochrane, each subject to an Ontario Power Authority ("OPA") Feed-in Tariff ("FIT") contract (the "Generation Projects")</p> <ul style="list-style-type: none"> • The NPS Empire generation site is approximately 122.1 hectares (ha) in size and located north of the Town of Cochrane and southeast of Genier. Lot 17, Part 1, and Lot 18, Part 3, Concession 7, Glackmeyer Township (Town of Cochrane). • The NPS Martin's Meadows generation site is approximately 82.3 hectares (ha) in size and located north of the Town of Cochrane and southeast of Genier. Lot 16, Parts 7 and 9, Concession 8, Glackmeyer Township (Town of Cochrane). • The NPS Abitibi generation site is approximately 97.95 hectares (ha) in size and located north of the Town of Cochrane and southeast of Genier. Lot 14 and Part 4 of Lot 15. Concession 8, Glackmeyer Township (Town of Cochrane). • The NPS Long Lake generation site is located in the unorganized Township of Calder, and is approximately 123.1 hectares (ha) in size and located north of Highway 11, west of Highway 668, where it intersects with Concession 8 and 9. Lot 2, Part 1 and Lot 3, Part 2, Concession 8, Calder Township. <p>The Applicants are affiliated with NPI, an experienced developer, owner and operator of renewable power generation in Canada and abroad. NPI has an OEB Generation Licence (EG-2003-0103) authorizing ownership and operation of the Kirkland Lake Generating Station and Cochrane Power Corporation Generating Station.</p> <p>The Applicants have Electricity Sector Affiliates licensed under the OEB Act, as</p>	

	<p>follows:</p> <ul style="list-style-type: none"> • Cochrane Power Corporation has an OEB Generation Licence (EG-2003-0100) authorizing ownership and operation of a 35.8 MW combined cycle power co-generation station located in Cochrane, Ontario; • Kirkland Lake Power Corp. has an OEB Generation Licence (EG-2003-0101) authorizing ownership and operation of a 102 MW combined cycle power co-generation facility located in Kirkland Lake, Ontario; • Iroquois Falls Power Corp. has an OEB Generation Licence (EG-2003-0144) authorizing ownership and operation of a 120 MW natural-gas-fired cogenerating facility located on the Abitibi River in Teefy Township; • Thorold CoGen L.P., by its general partner Thorold CoGen Management Inc., has OEB Generation Licence (EG-2007-0101 and EG-2007-0102) authorizing ownership and operation of a 305 MW natural gas-fired industrial co-generation facility located in Thorold, Ontario; • Kingston Cogen Limited Partnership has an OEB Generation Licence (EG-2003-0137) authorizing ownership and operation of a 110 MW cogeneration plan located in Kingston, Ontario; and • McLean's Mountain Wind Limited Partnership has a pending OEB Generation Licence application for authorization of ownership and operation of a 60 MW wind generation facility located on Manitoulin Island, Ontario. 	
1.3.2	<p>Attach a description of the geographic territory served by each of the parties to the proposed transaction or project, including each of their Electricity Sector Affiliates, if applicable, and the geographic location of all existing generation facilities.</p>	
	<p>As noted above, the Applicants are constructing a total of four (4) 10 MW ground mount solar electricity generation facilities in the vicinity of the Town of Cochrane, Ontario.</p> <p>Please refer to Section 1.3.1 for the geographic locations of the Applicants' facilities and their Electricity Sector Affiliates' generation facilities.</p>	

**Northland Power Solar Empire L.P., Northland Power Solar Martin's Meadows L.P.,
Northland Power Solar Abitibi L.P., Northland Power Solar Long Lake L.P.**

1.3.3	Attach a breakdown of the annual sales (in C\$, and in MWh) as of the most recent fiscal year end of the existing generation output among the IESO Administered Markets ("IAM"), bilateral contracts, and local distribution companies.	
	<p>The following information reflects 2011 fiscal year data, the most recent available at the time of filing this Notice:</p> <ul style="list-style-type: none"> • Cochrane Power Corporation OEB Generation Licence (EG-2003-0100). <ul style="list-style-type: none"> • Generation 311,225 MWh • Revenue \$28,055,878 • Kirkland Lake Power Corp. has an OEB Generation Licence (EG-2003-0101). <ul style="list-style-type: none"> • Generation 746,489 MWh • Revenue \$63,716,261 • Iroquois Falls Power Corp. has an OEB Generation Licence (EG-2003-0144). <ul style="list-style-type: none"> • Generation 725,241 MWh • Revenue \$43,205,117 • Thorold CoGen L.P., by its general partner Thorold CoGen Management Inc., has OEB Generation Licence (EG-2007-0101 and EG-2007-0102). <ul style="list-style-type: none"> • Generation 1,096,037 MWh • Revenue \$22,919,000 • Kingston Cogen Limited Partnership has an OEB Generation Licence (EG-2003-0137). <ul style="list-style-type: none"> • Generation 819,299 MWh • Revenue \$93,559,265 	
1.3.4	Attach a list identifying all relevant Board licences and approvals held by the parties to the proposed transaction or project and each of their Electricity Sector Affiliates, and any applications currently before the Board, or forthcoming. Please include all Board file numbers.	
	Please refer to Section 1.3.1 of this Notice.	

1.4 Current Competitive Characteristics of the Market

1.4.1	Describe the generation capacity (in MW), within the Province of Ontario, of the parties to the proposed transaction or project, including each of their respective Electricity Sector Affiliates, prior to the completion of the proposed transaction or project.	
	<p>The Applicants currently have no generation capacity within the Province of Ontario.</p> <p>The Applicant's Electricity Sector Affiliates have the following generation capacity within the Province of Ontario:</p> <ul style="list-style-type: none"> • Cochrane Power Corporation: 35.8 MW; • Kirkland Lake Power Corp.: 102 MW; • Iroquois Falls Power Corp.: 120 MW • Thorold CoGen L.P.: 305 MW, and • Kingston Cogen Limited Partnership: 110 MW. 	
1.4.2	Describe the generation market share based on actual MWh production as a percent of the Annual Primary Demand, within the Province of Ontario, of the parties to the proposed transaction or project, including each of their respective Electricity Sector Affiliates, prior to completion of the proposed transaction or project.	
	<p>Prior to construction and operation of the Generation Projects, the Applicants will have zero percent market share in the Province of Ontario.</p> <p>According to IESO data, the total 2011 electricity demand in Ontario in was 141 TWh. The Applicants' Projects are forecasted to produce 60,000 MWh per year. Accordingly, the total estimated production for MMWF will be less than 0.1 % of total Ontario demand.</p> <p>The Applicant's Electricity Sector Affiliates will have the following share based on actual MWh production as a percentage of the 141 TWh 2011 consumption:</p> <ul style="list-style-type: none"> • Cochrane Power Corporation: 311,225 MWh, 0.22%; • Kirkland Lake Power Corp. 746,489 MWh, 0.53%; • Iroquois Falls Power Corp. 725,241 MWh, 0.51%; • Thorold CoGen L.P. 1,096,037 MWh, 0.77%; and 	

	<ul style="list-style-type: none"> Kingston Cogen Limited Partnership: 819,299 MWh, 0.58%. 	
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1.5 Description of the Proposed Transaction or Project and Impact on Competition - General

1.5.1	<p>Attach a detailed description of the proposed transaction or project, including geographic locations of proposed new transmission or distribution systems, or new generation facilities.</p>	
	<p>Please see section 1.3.1, above, for a description of the generation facilities being developed by the Applicants.</p> <p>The Martin's Meadows, Abitibi and Empire Generation Projects will be grouped together at a common 115 kV bus in a 27.6-115 kV step-up transformer substation (the Main Transformer Substation or "Main TS") and will connect to the HONI C2H circuit by way of a 21 km 115 kV primarily overhead transmission line that will leave the Martin's Meadows Generation Project site and run west along Concession 8 and 9. There will be an underground cable portion to this transmission line, near the point of connection to C2H, with an approximate length of 350-400 m. This portion of the subject transmission line is referred to as "Segment A" below.</p> <p>The Long Lake Generation Project will also have a 27.6-115 kV transformer substation (the Calder Transformer Substation or "Calder TS") and connect to C2H via an approximately 0.5 km long 115 kV overhead line, running east along Concession 8 and 9. This portion of the subject transmission line is referred to as "Segment B" below.</p> <p>The transmission line Segment A from the Martin's Meadows, Abitibi and Empire Generation Projects and the transmission line Segment B from Long Lake Generation Project will be joined together at the 115 kV bus of a new switching station ("Calder SS"), which will be constructed at the point of connection with the HONI C2H circuit.</p> <p>The Transmission Facilities consist of the following components discussed in greater detail below (applicable GPS coordinates are shown where available):</p> <ul style="list-style-type: none"> (a) The Main Transformer Substation ("Main TS") (49.145205, -81.274333); (b) The Calder Transformer Substation ("Calder TS") (49.145230, -81.275142); (c) High Voltage Transmission Line (Segment A and Segment B); (d) Transition Station (49.145429, -81.271016); and (e) The Calder Switching Station ("Calder SS") (49.145230, -81.275142) and HONI Interconnection (49.145205, -81.274333). <ul style="list-style-type: none"> The Main Transformer Substation <p>The Main TS is located on the Martin's Meadows Generation Project site. More</p>	

	<p>particularly, the Main TS will be located on the north-west corner of Martin's Meadows site, within Glackmeyer Township, Lot 1, Concession 8. The Main TS will include three (3) transformers, each transformer with a proposed peak capacity of 12 MVA, for the purposes of stepping up generation from the Martin's Meadows, Abitibi and Empire Generation Project sites from 27.6 kV, the nominal voltage of the medium voltage collector system, to 113-132 kV, the voltage required for connection to the HONI transmission system. The Main TS will include breakers, switches, metering, protections, controls, SCADA and auxiliary equipment required for safe and reliable operation of medium and high voltage facilities of the Generation Projects and the new 115 kV transmission line (Segment A). The Main TS will also include three (3) sets of IESO revenue metering equipment, one set for each of the Martin's Meadows, Abitibi and Empire Generation Projects. The Main TS will include perimeter fencing, which will comply with the requirements of the Ontario Electrical Safety Code.</p> <p>For economic, operations and maintenance reasons, the Applicants are considering amending their current SIA and CIA, to allow the Applicants to combine the energy generated by the Martin's Meadows, Abitibi and Empire Generation Projects sites at the 27.6 kV bus of the Main TS. This would allow the Applicants to explore a reduction in the required number of step-up transformers from three (3) down to a single unit. The Applicants may select this alternative and if so, the Applicants will pursue an amendment to the existing SIA and CIA with the IESO and HONI respectively to reflect the new arrangement. For greater clarity, this alternative will not result in a change in location of the Transmission Facilities.</p> <ul style="list-style-type: none"> • The Calder Transformer Substation <p>The Calder TS will be located on the north-east corner of the Long Lake Generation Project site, Calder Township, Lot 2, Concession 8. The Calder TS will include a single transformer with a proposed peak capacity of 12 MVA, for the purposes of stepping up generation from the Long Lake Generation Project from 27.6 kV, the nominal voltage of the medium voltage collector system, to 113-132 kV, the voltage required for connection to the HONI transmission system. The Calder TS will include breakers, switches, metering, protections, controls, SCADA and auxiliary equipment required for safe and reliable operation of medium and high voltage facilities of the solar stations and the new 115 kV transmission line (Segment B). The Calder TS will also include one (1) set of IESO revenue metering equipment for the Long Lake Generation Project site. The Calder TS will include perimeter fencing, which will comply with the requirements of the Ontario Electrical Safety Code.</p> <ul style="list-style-type: none"> • High Voltage Transmission Line <p>The Main TS, Calder TS and Calder SS will inter-connect via a three-terminal configuration, single-circuit arrangement, 115 kV transmission line. The 115 kV transmission line will consist of two segments:</p> <p>(a) Segment A - Main TS to Calder SS:</p> <p>(i) The 115 kV transmission line will leave the Main TS and travel overhead in</p>	
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	<p>a westward direction, along Concessions 8 and 9, for a distance of approximately 20.5 km, at which point the overhead line will enter an overhead to underground transition station (the "Transition Station"). The underground cable will then leave the Transition Station, travel in a westward direction for approximately 350 to 400 meters and rise up for termination at the 115 kV bus of Calder SS, at the point of connection to HONI circuit C2H.</p> <p>(ii) The overhead portion of Segment A will cross Ontario Northland Railway, Frederick House River as well as Algonquin Power's 115 kV Long Sault GS tap line (as further described in Exhibit C, Tab 1, Schedule 1). It is anticipated that new 115 kV transmission line will cross over the Algonquin Power circuit.</p> <p>(iii) The 115 kV underground cable is necessary to allow for crossing of three (3) 115 kV overhead lines, belonging to HONI (C2H and C3H) as well as H2O Power LP, which exist between the Transition Station and Calder SS. The underground cable will cross Highway 668.</p> <p>(iv) It is proposed to run the underground cable straight across Highway 668 from the Transition Station, across Lot 1, Concession 8, Calder Township, to terminate at the Calder SS.</p> <p>(b) Segment B – Calder TS to Calder SS:</p> <p>(i) The 115 kV transmission line will leave the Calder TS and travel overhead in an eastward direction, along Concessions 8 and 9 for a distance of approximately 0.5 km. The overhead line will terminate at the 115 kV bus of Calder SS, at the point of connection to HONI circuit C2H.</p> <ul style="list-style-type: none"> • Transition Station <p>The overhead portion of Segment A of the new 115 kV transmission line will transition to a buried cable approximately 70 metres from the northeast corner of the intersection of Highway 688 and Concession 8 and 9. The Transition Station will be located on Lot 28, Concession 9, Township of Clute. NPI has a land option agreement in place with the property owner. The Transition Station will contain all equipment necessary to transition Segment A of the new 115 kV transition line from overhead wire to insulated underground cable. The structure will contain overhead wire/insulated cable terminations, surge protection, grounding and auxiliary equipment.</p> <ul style="list-style-type: none"> • Calder SS and HONI Interconnection <p>Segment A and Segment B of the new 115 kV transmission line will join at the 115 kV bus of Calder SS. The Calder SS will be located on Lot 1 Concession 8; approximately 175 metres west of the intersection of Highway 688 and Concessions 8 and 9. NPI has sent a land option agreement to the property owner and its terms and conditions are being finalized. Final connection of the Generation Projects to the HONI 115 kV transmission system will be via a line tap to HONI 115 kV circuit C2H from Calder SS. The location of the line tap will be at or near C2H Tower 269 (49.145744, -81.274209), near the intersection of Highway 668 and Concessions 8-9 Clute/Glackmeyer, approximately 4.1 km north</p>	
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	<p>of Hydro One's Hunta Switching Station.</p> <p>The tapping arrangement to HONI circuit C2H will be determined in consultation with HONI, following the execution of the HONI Connection and Cost Recovery Agreement ("CCRA"). Calder SS will contain all equipment necessary to join Segment A and Segment B of the new 115 kV transmission line to the outgoing HONI line tap. Other equipment, which will be located in the Calder SS, includes breakers, disconnect switches, buswork, equipment related to auxiliary services as well as a modular building containing HONI interconnection and new 115 kV transmission line protections, metering, controls and HONI/IESIO SCADA/telemetry equipment. The Calder SS will include perimeter fencing, which will comply with the requirements of the Ontario Electrical Safety Code.</p> <p>Attachment 1.5.1 to this application contains a detailed map showing the geographic locations of the proposed new transmission system.</p>	
1.5.2	Describe the generation capacity (in MW), within the Province of Ontario, of the parties to the proposed transaction or project, including each of their respective Electricity Sector Affiliates, after the completion of the proposed transaction or project.	
	Each of the Applicants will own generation capacity of 10 MW following the completion of the four generation projects. Upon completion, the Applicants' Electricity Sector Affiliates will have the same generation capacity (in MW) as described in Section 1.4.1.	
1.5.3	Describe the generation market share based on anticipated MWh production as a percentage of the Annual Primary Demand, within the Province of Ontario, of the parties to the proposed transaction or project, including each of their respective Electricity Sector Affiliates, after the completion of the proposed transaction or project.	
	Please refer to s.1.4.2 of this Notice.	
1.5.4	Attach a short description of the impact, if any, of the proposed transaction or project on competition. If there will be no impact on competition, please state the reasons. Cite specifically the impacts of the proposal on customer choice regarding generation, energy wholesalers, and energy retailers.	
	<p>Section 96(2) of the <i>Ontario Energy Board Act, 1998</i> ("OEB Act") provides the test used by the Board when considering whether the construction of an electricity transmission line is in the public interest. Under this "public interest test" the Board must consider if the proposed transmission line is in the interests of consumers with respect to prices and the reliability and quality of electricity service; and where applicable, and in a manner consistent with the policies of the Government of Ontario, the promotion of the use of renewable energy sources.</p> <p>The Ontario Power Authority ("OPA") utilized a competitive process for awarding</p>	

	the four Feed-in Tariff ("FIT") contracts relating to the NPS Empire, NPS Martin's Meadows, NPS Abitibi and NPS Long Lake Projects. The four projects will have little to no impact on competition within the Province of Ontario, as the Applicants are subject to the terms of the FIT contracts with respect to pricing and contract capacity. Furthermore, the Transmission Line and related Transmission Facilities are to be a dedicated line to connect the NPS Empire, NPS Martin's Meadows, NPS Abitibi and NPS Long Lake Projects to the IESO-controlled grid, and the Applicants will therefore not be rate-regulated and the financial risk of constructing the Transmission Line and Transmission Facilities lies with the Applicants. The construction of the Transmission Line will result in the promotion of the use of renewable energy sources, namely, through the connection of the NPS Empire, NPS Martin's Meadows, NPS Abitibi and NPS Long Lake Projects to the provincial electricity grid.	
1.5.5	Provide confirmation that the proposed transaction or project will have no impact on open access to the transmission or distribution system of the parties or their affiliates. If open access will be affected explain how and why.	
	The Applicants are not licensed transmitters and are not subject to the open access provisions of the <i>Electricity Act, 1998</i> , nor will they be subject to transmitter licensing or open access requirements following the completion of the Transmission Line. The Applicants will be transmitting electricity for the purpose of conveying it into the IESO-controlled grid.	

1.6 Other Information

1.6.1	Attach confirmation that the parties to the proposed transaction or project are in compliance with all licence and code requirements, and will continue to be in compliance after completion of the proposed transaction or project.	
	The Applicants will be applying for Generation Licences prior to the commencement of generation for sale, and intend to comply with the requirements of its license. The Applicants' Electricity Sector Affiliates are long-standing licence holders.	

PART II: SECTION 80 OF THE ACT—TRANSMITTERS AND DISTRIBUTORS ACQUIRING AN INTEREST IN GENERATORS OR CONSTRUCTING A GENERATION FACILITY

All applicants filing a Notice of Proposal under section 80 of the Act must complete and file the information requested in Part II.

2.1 Effect on Competition

2.1.2	Describe whether the proposed generation output will be primarily offered into the	
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	IAM, sold via bilateral contracts, or for own use.	
2.1.3	Provide a description of the generation including fuel source, technology used, maximum capacity output, typical number of hours of operation in a year, and peaking versus base-load character.	
2.1.4	Provide details on whether the generation facility is expected to sign a "must run" contract with the IESO.	
2.1.5	Provide details of whether the generation facility is expected to serve a "load pocket", or is likely to be "constrained on" due to transmission constraints.	

2.2 System Reliability

Section 2.2 must be completed by applicants who are claiming that the proposed transaction or project is required for system reliability under section 82(2)(b) of the Act.

2.2.1	Provide reasons why the proposal is required to maintain the reliability of the transmission or distribution system. Provide supporting studies.	
2.2.2	Discuss the effect of the proposal on the adequacy (ability of supply to meet demand) of supply in the relevant control area or distribution region, citing effects on capacity plus reserve levels in comparison to load forecasts.	
2.2.3	Discuss the effect of the proposal on the security (ability of supply to respond to system contingencies) of supply.	
2.2.4	Provide a copy of the IESO Preliminary System Impact Assessment Report, if completed, and the IESO Final System Impact Assessment Report, if completed. If the IESO is not conducting a System Impact Assessment Report, please explain.	

PART III: SECTION 81 OF THE ACT—GENERATORS ACQUIRING AN INTEREST IN OR CONSTRUCTING A TRANSMISSION OR DISTRIBUTION SYSTEM

All applicants filing a Notice of Proposal under section 81 of the Act must complete and file the information requested in Part III.

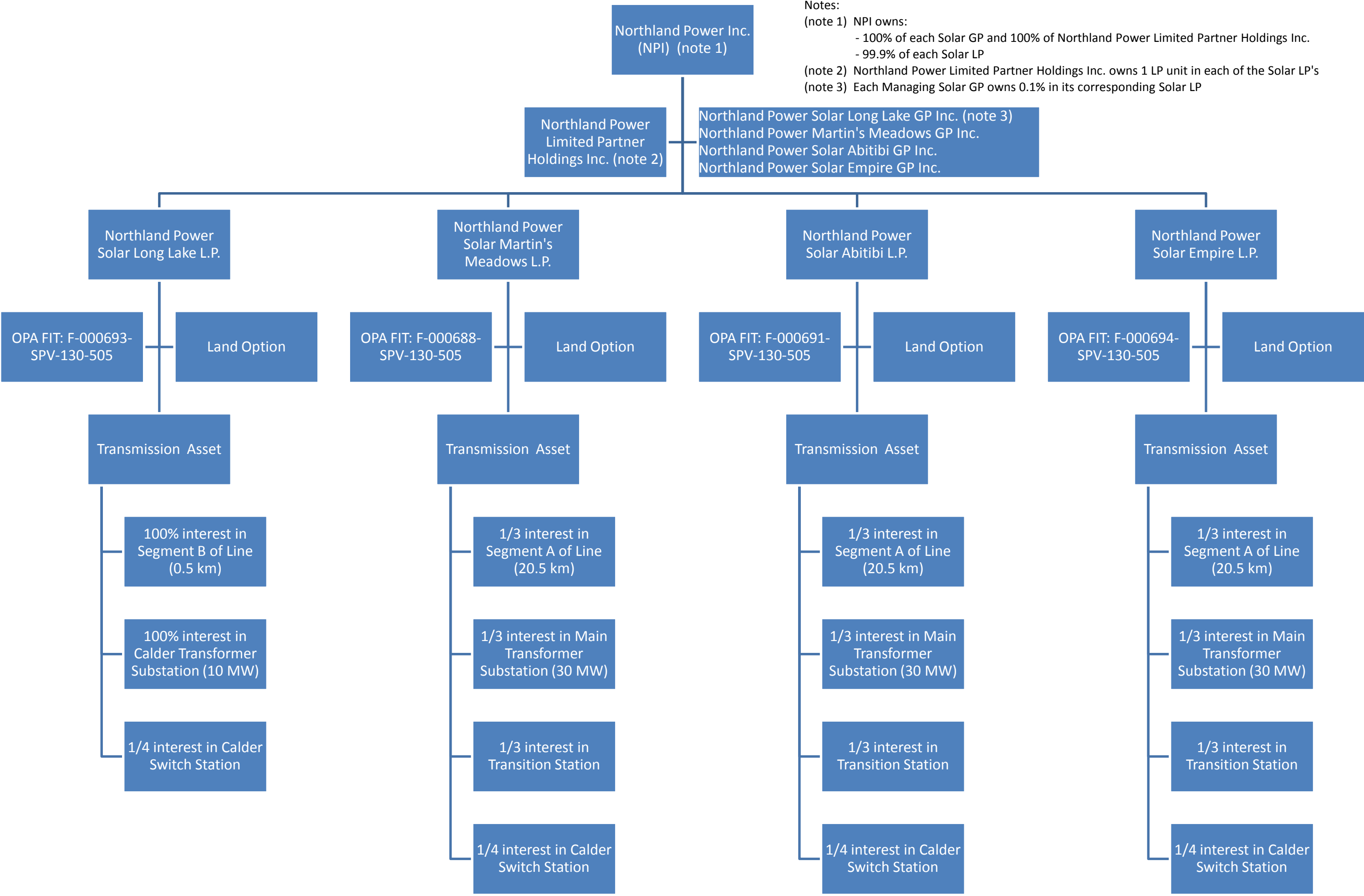
3.1 Effect on Competition

3.1.1	Provide a description of the transmission or distribution system being acquired or constructed.	
	The Applicants have a co-ownership agreement in place to construct, own, operate, and maintain the transmission line and associated facilities, including approximately twenty two (22) kilometers of 115 kV above-ground transmission line, five hundred (500) metres of underground transmission line, two (2) 115 kV	

	<p>substations, a transition station, and a switching yard (“the Transmission Facilities”) that are the subject of this Application.</p> <p>As discussed in section 1.5.1, above, the Transmission Facilities consist of the following components:</p> <ul style="list-style-type: none"> (a) The Main Transformer Substation; (b) Calder TS; (c) High Voltage Transmission Line; (d) Transition Station; and (e) Calder SS and HONI Interconnection. <p>Each of these components is discussed in detail in section 1.5.1, above.</p>	
3.1.2	Provide details on whether the generation facilities owned by the acquiring company are or will be directly connected to the transmission or distribution system being acquired or constructed.	
	The generation facilities and the related Transmission Facilities will be owned by the Applicants and will be connected to one another. The proposed Transmission Line Transmission Line and related Transmission Facilities are to be a dedicated line to connect the NPS Empire, NPS Martin's Meadows, NPS Abitibi and NPS Long Lake generation facilities to the IESO-controlled grid.	
3.1.3	Provide details of whether the generation facility is expected to serve a “load pocket”, or is likely to be “constrained on” due to transmission constraints.	
	The NPS Empire, NPS Martin's Meadows, NPS Abitibi and NPS Long Lake generation facilities are not expected to serve a “load pocket” and will not be “constrained on” due to transmission constraints.	
3.1.4	Provide details on whether the generation facilities are expected to sign a “must run” contract with the IESO.	
	The NPS Empire, NPS Martin's Meadows, NPS Abitibi and NPS Long Lake generation facilities will comprise a total of four (4) 10 MW generation facilities that will run intermittently according to prevailing weather conditions with a maximum peak total capacity of 40 MW. The NPS Empire, NPS Martin's Meadows, NPS Abitibi and NPS Long Lake generation facilities will be operated pursuant to their FIT Contract with the OPA. They are not “must run” facilities.	

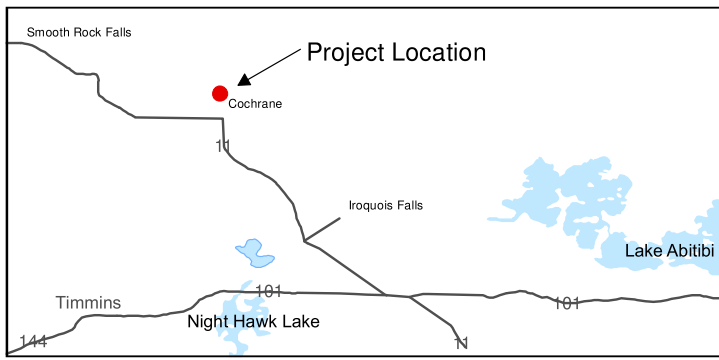
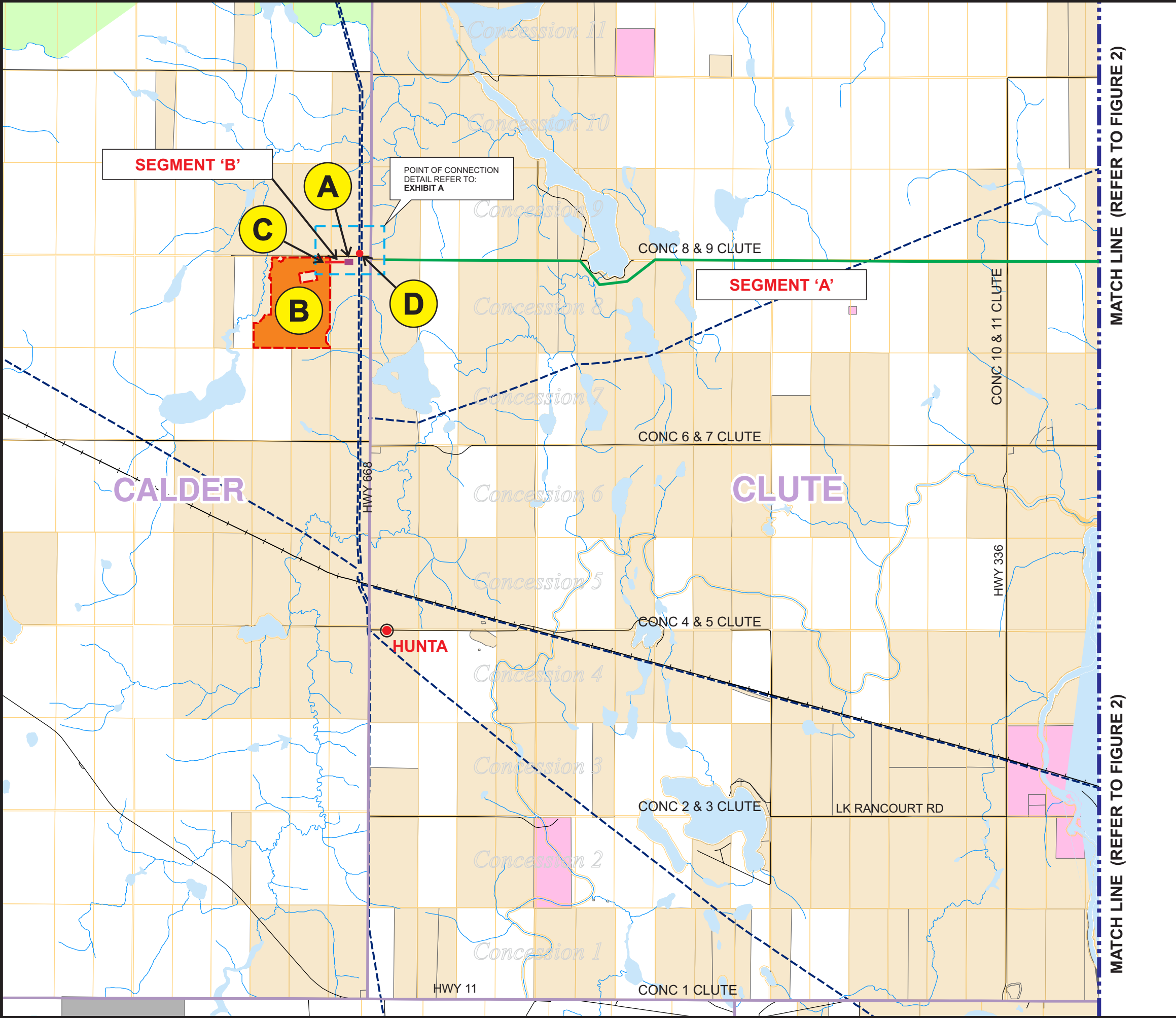
Northland Power Solar Empire L.P., Northland Power Solar Martin's Meadows L.P.,
Northland Power Solar Abitibi L.P., Northland Power Solar Long Lake L.P.

ATTACHMENT 1.2.2 – CORPORATE CHART



Northland Power Solar Empire L.P., Northland Power Solar Martin's Meadows L.P.,
Northland Power Solar Abitibi L.P., Northland Power Solar Long Lake L.P.

**ATTACHMENT 1.5.1 – MAP OF TRANSMISSION FACILITIES AND PROPOSED
ROUTE FOR TRANSMISSION LINE**



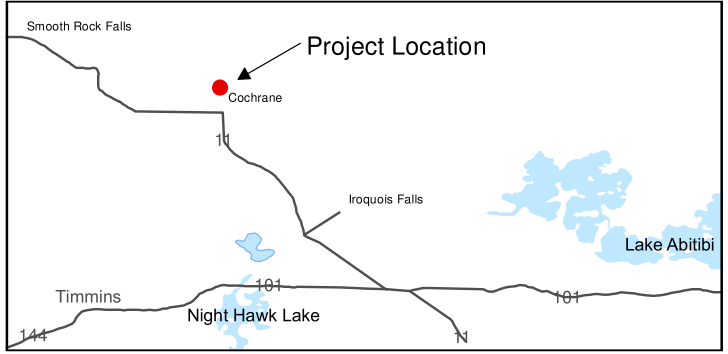
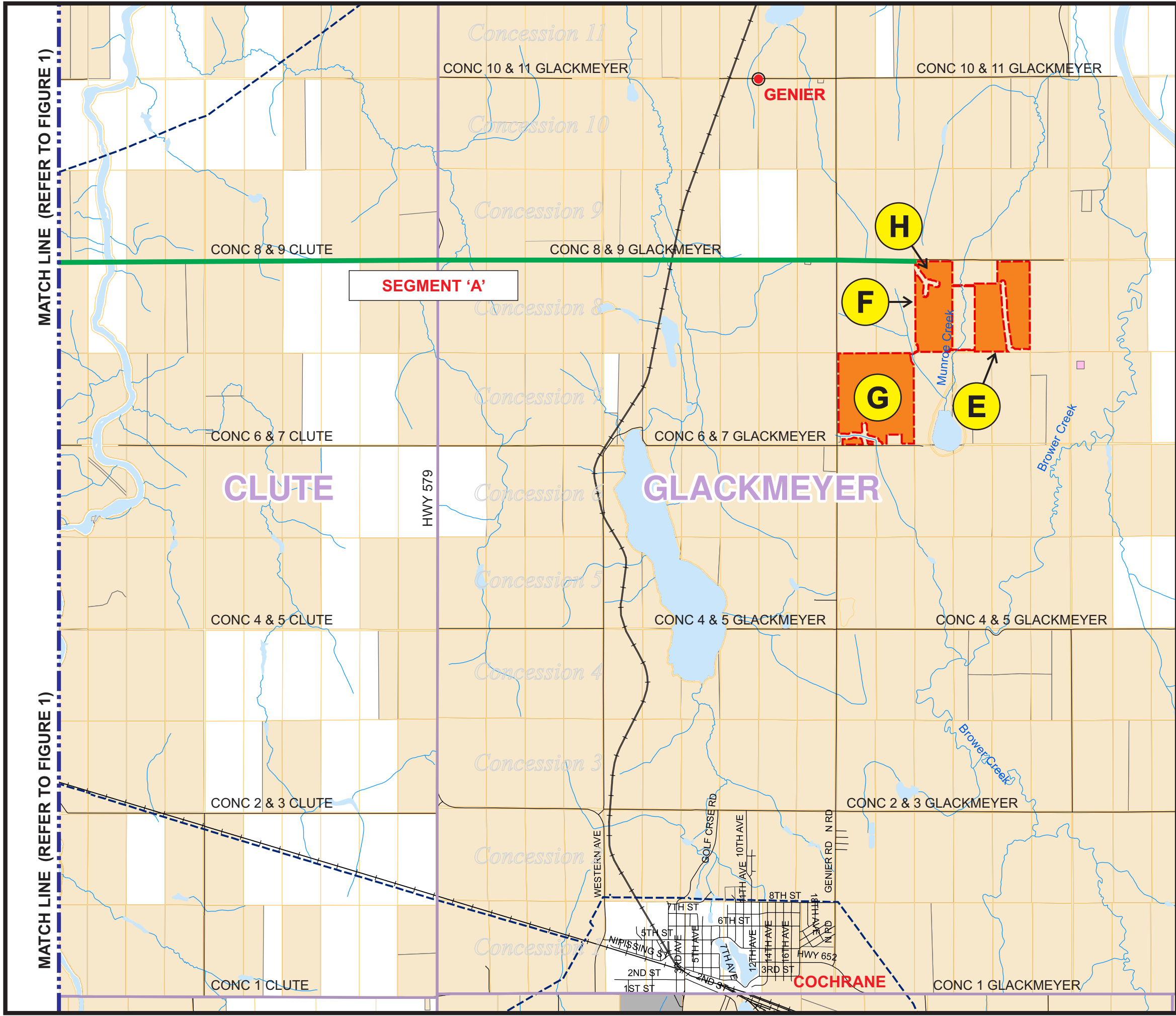
LEGEND

- ROAD
- RAIL
- TRANSMISSION LINE
- MINE CLAIM
- MINING ALIENATION (SURFACE RIGHT WITHDRAWN)
- ACTIVE (MINING) DISPOSITION
- REGULATED PROVINCIAL PARK
- GEOGRAPHIC TOWNSHIP
- PARCEL
- WATER BODY

PROJECT COMPONENTS

- SOLAR PROJECT LOCATION**
- A** CALDER SWITCHING STATION
GPS Coordinates: 49.145230, -81.275142
- B** NORTHLAND POWER SOLAR LONG LAKES
Parcel 1525 of Lot 3 & Parcel 2255 of Lot 2, Concession 8, Township of Calder
GPS Coordinates: 49.164016, -81.281204
- C** CALDER TRANSFORMER SUBSTATION (10MW)
GPS Coordinates: 49.145146, -81.280174
- D** POINT OF CONNECTION
GPS Coordinates: 49.145205, -81.274333
- PROPOSED TRANSMISSION LINE (SEGMENT A) 30MW
- PROPOSED TRANSMISSION LINE (SEGMENT B) 10MW

FIGURE: 1
Proposed Transmission Line Route for
Abitibi, Martin's Meadows, Empire &
Long Lakes



LEGEND

- ROAD
- RAIL
- TRANSMISSION LINE
- MINE CLAIM
- MINING ALIENATION (SURFACE RIGHT WITHDRAWN)
- ACTIVE (MINING) DISPOSITION
- REGULATED PROVINCIAL PARK
- GEOGRAPHIC TOWNSHIP
- PARCEL
- WATER BODY

PROJECT COMPONENTS

- SOLAR PROJECT LOCATION**
- E** NORTHLAND POWER SOLAR ABITIBI
Parcel 2488 of Lot 14 & Parcel 2487 of Lot 15,
Concession 8, Township of Glackmeyer
GPS Coordinates: 49.140073, -80.971227
- F** NORTHLAND POWER SOLAR MARTIN'S MEADOWS
Parcel 2051 of Lot 16, Concession 8, Township of Glackmeyer
GPS Coordinates: 49.141101, -80.984888
- G** NORTHLAND POWER SOLAR EMPIRE
Parcel 1352 of Lot 18 & Parcel 1356 of Lot 17,
Concession 7, Township of Glackmeyer
GPS Coordinates: 49.134396, -80.997448
- H** MAIN TRANSFORMER SUBSTATION (30 MW)
OPTION 1 GPS Coordinates: 49.145205, -81.274333
- PROPOSED TRANSMISSION LINE (SEGMENT A) 30MW

FIGURE: 2
Proposed Transmission Line Route for
Abitibi, Martin's Meadows, Empire

Notes:
1. Produced by Hatch under licence from Ontario Ministry of Natural Resources, Copyright (c) Queens Printer 2011.
2. Spatial referencing UTM NAD 83.

