



Cogeneration and Related Electrical Facilities Information Sheet

Imperial Oil
ResourcesCold Lake
Operations

Project Summary

The Nabiye Project, an expansion to Imperial's existing Cold Lake Operations, will include a cogeneration facility, a new substation and a 13 km 144kV transmission line for the export of power to the Alberta Interconnected Electric System (AIES).

Cogeneration and Substation

The cogeneration facility and new substation will be part of the Nabiye plant located at LSD 10, Section 23, Township 66, Range 3, West 4th Meridian.

The cogeneration facility will include two gas turbine generators (GTGs) with heat recovery steam generators (HRSGs) to generate electricity as well as steam. Electricity from the cogeneration facility will be routed through the new substation, which will consist of a step down transformer -- where a portion of the electricity will be transformed to 25kV power and sent to the Nabiye field -- and a step up transformer -- where the rest of the electricity will be transformed to 144kV power and routed to the transmission line.

Connection of Nabiye to the Mahihkan North substation aligns with expansion planning by the Alberta Electric System Operator (AESO) for future generation and transmission capacity in the Cold Lake and Primrose areas.



Regulatory Applications

Imperial plans to file applications to the Alberta Utilities Commission in late 2009 seeking approvals for the cogeneration power plant, the transmission line and substations, interconnection to the AIES, and to amend the existing Imperial Cold Lake Industrial Systems Designation (ISD).

Imperial has applied to Alberta Environment (AENV) and the Energy Resources Conservation Board (ERCB) to amend the existing approvals for the Nabiye project which include three project changes, one of which is cogeneration.



Transmission Line Route

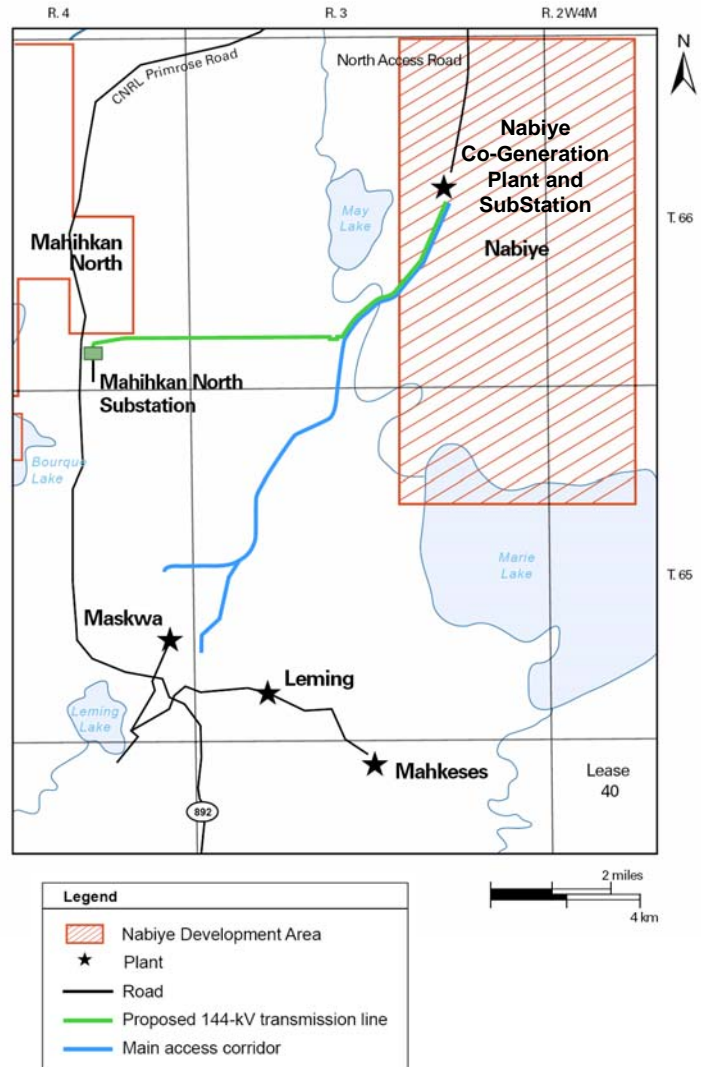
The new 144kV transmission line will connect the cogeneration facility to the existing Mahihkan North substation at LSD 13, Section 2, Township 66, Range 4, West 4th Meridian.

The transmission line route will follow the main Nabiye access corridor from the Nabiye plant for about 6 km. The active right-of-way for the main access corridor, including the transmission line, road and buried pipelines, will be about 83m wide.

The transmission line also runs west for about 7km to the existing Mahihkan North substation and will be routed in a 20m wide active right-of-way.

Benefits of the selected route include:

- The Mahihkan North substation is the best tie-in location, considering AESO plans for the area and ease of expansion of the substation
- The selected routing is short and uses existing cleared areas, minimizing disturbance



Proposed Project Schedule

Subject to timely receipt of regulatory approvals and favourable business and market conditions, Imperial plans to proceed with the revised project as early as 2010. Construction of the initial pads, plant facility, access corridor and transmission line is expected to take three to four years.

This information sheet is being sent to potentially affected and interested parties to provide information on the proposed project. Comments, questions, or concerns regarding the project can be directed to:

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