

Integrating Renewable Resources to the Grid - IESO Process Overview

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- IESO processes ensure reliable integration of renewable generation facilities into the IESO-controlled grid (ICG):
 - **Connection Assessment Process (CA)** - assesses the impact of new renewable generation connections (over 10MW in size connecting to distribution, or any size connecting to transmission) on the reliability of the integrated power system and identifies measures to mitigate impacts if any, and
 - **Market Entry Process (ME)** - verifies that the new facilities meet all market rules requirements for connection, participation and performance, and provides the registration of new facilities and authorization of new market participants.

- Before applying for the CA process,
 - Contact your transmitter or distributor and establish a feasible connection point to the grid and routing for the connecting facilities.
 - Since FIT opened, consultations between proponents, Hydro One and IESO reveal three main areas of interest: grid availability/connection options, connection requirements/size, timelines for getting back-feed.
 - Select a preferred option and complete the high level electrical design, including equipment technical specifications (generators, transformers, lines, protections)
 - Obtain a Feed in Tariff contract, if applicable.

Contact the IESO at any time with any questions at
customer.relations@ieso.ca or
connection.assessments@ieso.ca

- The CA process starts when a connection applicant submits a *complete* application to the IESO.
- A *complete* application for CA consists of all required technical data, the appropriate deposit(s) and execution of an SIA agreement.
- The CA process will be completed within 150 days after receipt of a *complete* application, and provides:
 - the system impact assessment (SIA) report performed by the IESO, and
 - the customer impact assessment (CIA) report performed by the transmitter
 - the Notification of Conditional Approval letter
 - package outlining the “next steps” with the IESO (i.e. market entry)
- Material changes to the project will trigger a need to re-apply and re-start of the CA process.

- The ME process must be initiated about a year before the scheduled in service date, and covers
 - Confirming the installed equipment technical specifications and models,
 - Revenue meters registration,
 - Telemetry requirements, installation and testing
 - Commissioning tests and performance validation
 - Final approval to connect
- The IESO Project Manager will coordinate all ME activities and meet your project schedule
 - Contact your Project Manager or the IESO at market.entry@ieso.ca