

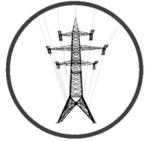
# TRANSMISSION LOAD CONNECTIONS

HYDRO ONE NETWORKS INC.  
SEPTEMBER 2014





# BACKGROUND



## Important Information for Transmission Load Customers

This package was published for Hydro One's Tx Load Connection Customers as a supplement to the "Transmission Connection Procedures" document, which outlines the complete process and requirements and is available at

<http://www.hydroone.com/IndustrialLDCs/ConnectionProcess/Pages/GettingStarted.aspx>.

We highly encourage customers to review the Transmission Connection Procedures and ensure they are aware of all required approvals, processes, organizations and costs prior to undertaking the application process. Failure to do so may cause delays in the process. Also, this package is in no way intended to be interpreted as the views of any other organization. For more information on the process please visit

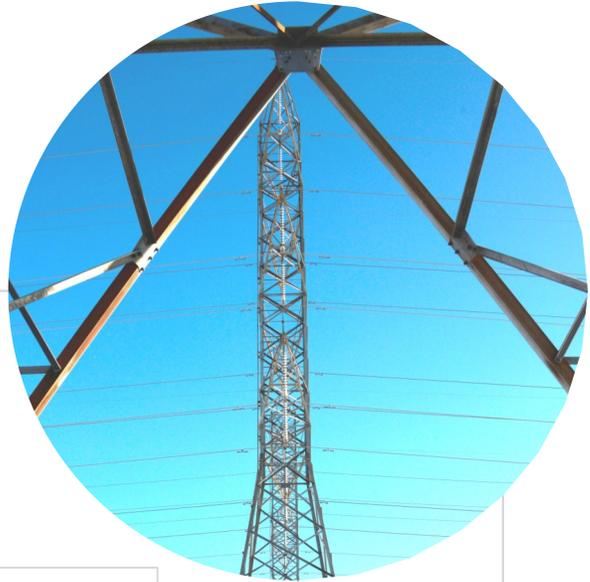
<http://www.hydroone.com/Generators/Pages/Transmission-connected.aspx>. Any questions regarding the process can be directed to your Hydro One Account Executive or [LargeAccounts@HydroOne.com](mailto:LargeAccounts@HydroOne.com).



# TRANSMISSION LOAD CUSTOMERS



Hydro One is proud to supply electricity to over 90 transmission connected Large Industrial Customers, close to 100 transmission connected Generators and over 70 Local Distribution Companies (LDCs) across Ontario. All of these Customers have significant power requirements.



Hydro One's Transmission Load Customers must follow a comprehensive process in order to become connected to the transmission system. The information in the **Transmission Load Connection Customer Package** helps to clarify the process by providing important information that Customers should know prior to connecting their facility. Customer must also review the "Transmission Connections Procedures" document for detailed process information.

The Transmission Load Connection Customer Package also assists Customers who are requesting a new or modified connection to Hydro One's transmission system. The process is consistent with the transmission connection procedures that have been filed with the Ontario Energy Board (OEB).



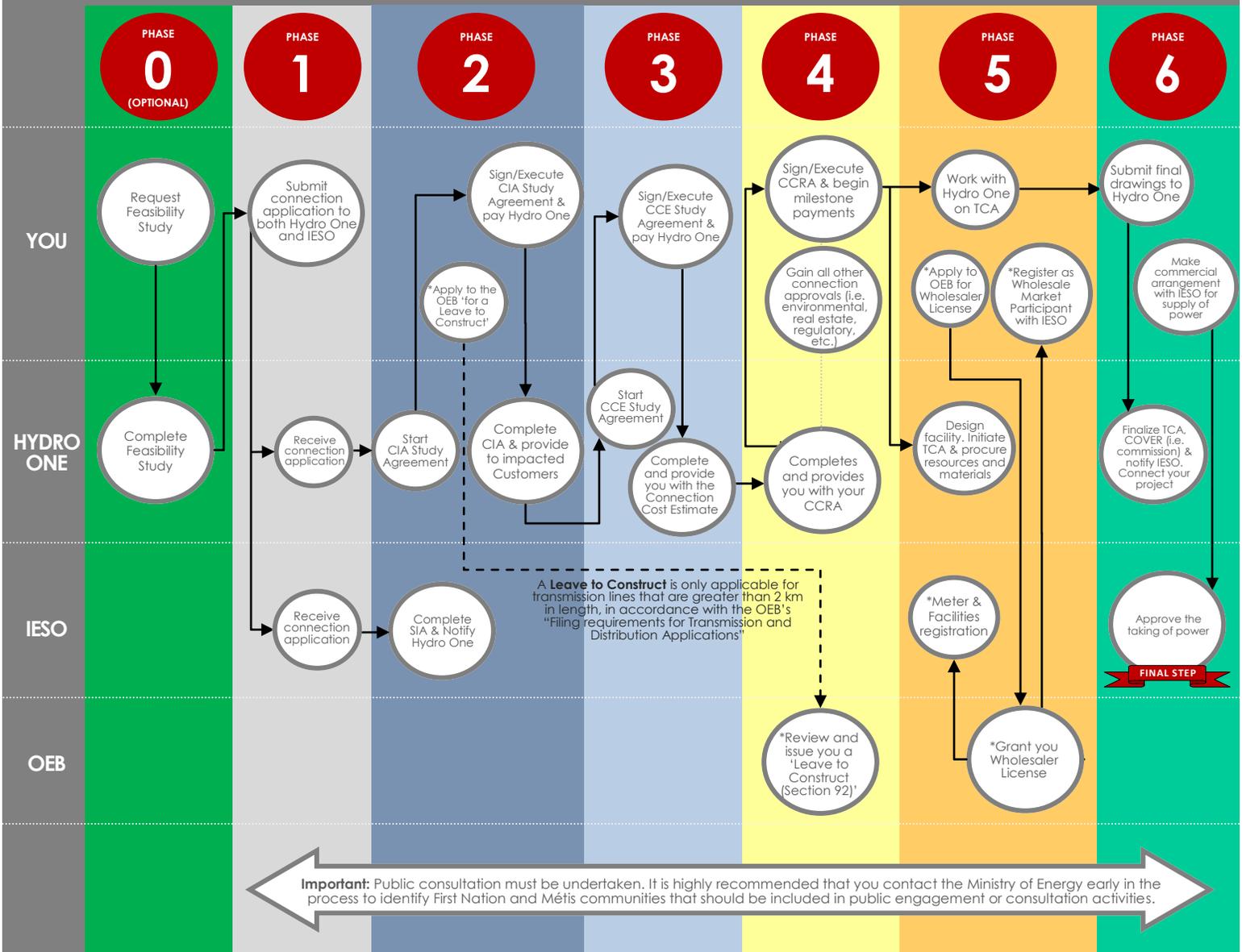


# Transmission Load Connections PROCESS, MILESTONES & KEY PLAYERS



**Important:** The complexity of your project and the associated appraisals required throughout the process could have a significant impact on your project's timelines. They can include but are not limited to Ontario Energy Board (OEB) approvals (e.g. Leave to Construct), environmental approvals, municipal approvals and permits, including land easements and land acquisitions.

## TRANSMISSION LOAD CONNECTION PROCESS MILESTONES



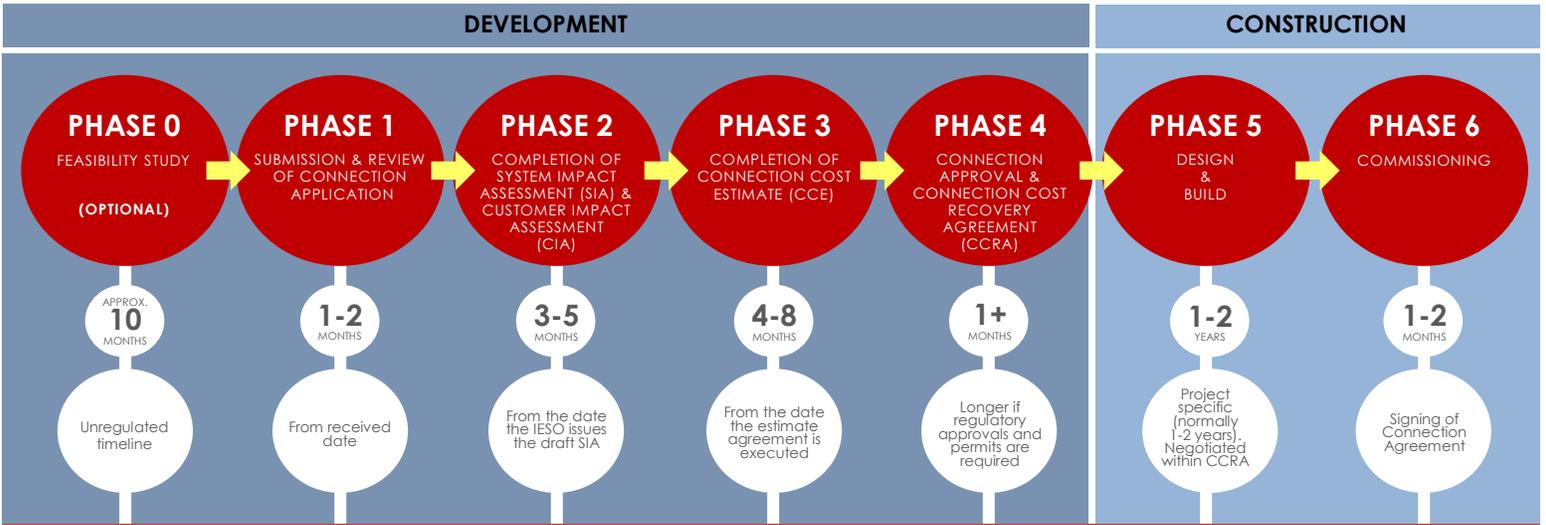
**CIA** = CUSTOMER IMPACT ASSESSMENT, **SIA** = SYSTEM IMPACT ASSESSMENT, **IESO** = INDEPENDENT ELECTRICITY SYSTEM OPERATOR, **OEB** = ONTARIO ENERGY BOARD, **CCE** = CONNECTION COST ESTIMATE, **CCRA** = CONNECTION COST RECOVERY AGREEMENT, **TCA** = TRANSMISSION CONNECTION AGREEMENT, **COVER** = CONFIRMATION OF VERIFICATION EVIDENCE REPORT, **SLD** = SINGLE LINE DIAGRAM

## ROLES OF KEY PLAYERS IN ONTARIO'S ELECTRICITY INDUSTRY

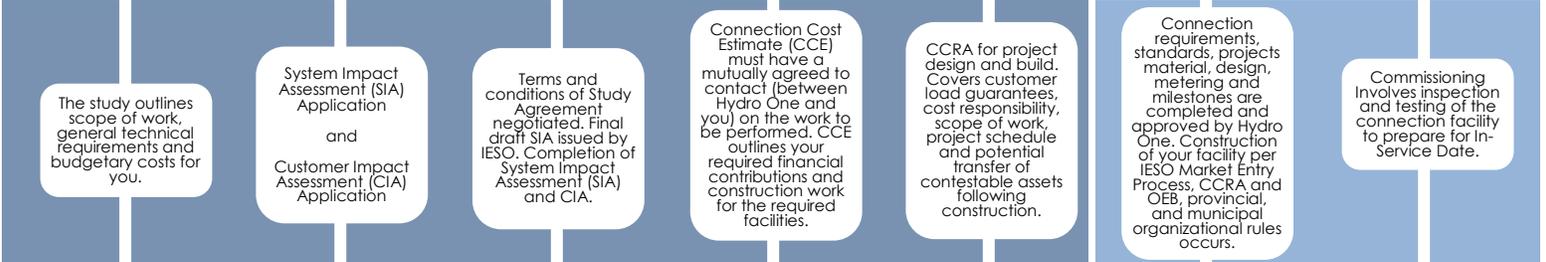
<p><b>HYDRO ONE</b></p> <p>Utility and licensed Transmitter. Responsible to operate and maintain the Transmission System, including new connections once approved. Physically connects your facility and ensures safety.</p> <p><a href="http://www.HydroOne.com">www.HydroOne.com</a></p>	<p><b>INDEPENDENT ELECTRICITY SYSTEM OPERATOR (IESO)</b></p> <p>Manages supply and demand of electricity. Directs flow of electricity across Ontario</p> <p><a href="http://www.ieso.ca">www.ieso.ca</a></p>	<p><b>ONTARIO POWER AUTHORITY (OPA)</b></p> <p>Plans and procures electricity supply through various energy programs for the Ontario Government.</p> <p><a href="http://www.powerauthority.on.ca">www.powerauthority.on.ca</a></p>	<p><b>CONSUMER (YOU)</b></p> <p>Builds and connects facilities to the electrical grid.</p> <p><i>*Ensure to review websites*</i></p>	<p><b>ONTARIO ENERGY BOARD</b></p> <p>Governs the legislation and regulations (Transmission System Code and Distribution System Code)</p> <p><a href="http://www.ontarioenergyboard.ca">www.ontarioenergyboard.ca</a></p>	<p><b>ELECTRICITY SAFETY AUTHORITY</b></p> <p>Enhances public electrical safety in Ontario</p> <p><a href="http://www.esasafe.ca">www.esasafe.ca</a></p>
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# PAYMENTS, TIMELINES & REQUIREMENTS



## WHAT IS HAPPENING DURING THE PHASE?



## WHAT DO I NEED TO DO?



## WHAT IS HYDRO ONE DOING?



**IMPORTANT:** The Transmission Load Connection Process takes approximately 21-36 months, however actual completion time varies significantly from project to project and is dependent on the project's complexity and required approvals, such as public consultations, permits, etc. It is highly recommended that you contact the Ministry of Energy early in the process to identify First Nation and Metis communities that should be included in public engagement or consultation activities. Regarding payments, payments to Hydro One are required at various stages (see "What Do I Need to Do?" above) in order for your application to move forward. Failure to make the required payments on time will result in delays to your application. It is the customers responsibility to ensure all of their payments are made and other requirements are met correctly as Hydro One will not be held responsible for any delays.



# FEASIBILITY STUDY: PHASE 0



A **PRELIMINARY ASSESSMENT** of your proposed connection is performed by Hydro One and, only if deemed necessary, an in-depth assessment known as a **FEASIBILITY STUDY**, is completed. A Feasibility Study is undertaken if there are potential issues with your connection relating to location, capacity, equipment, safety, resource availability or for other various reasons.

The goal of a Feasibility Study is to identify the most preferred connection option for you while also providing an estimate of the cost of your proposed connection based on the most accurate information available at the time the study is run.

The study consists of **4 steps** which are outlined below, along with your requirements as the Customer.

