

Current Date:
Project Name:

TYPE of STUDY REQUESTED

Refer to [BC Hydro's website](#) for a description of **Conceptual Review** and **System Impact Study**.

Conceptual Review

System Impact Study

How to complete this form

1. Please complete this form electronically and email it to large.industrial.connections@bchydro.com or the BC Hydro Interconnections Manager assigned to this project.
2. Do *not* leave sections blank. Use *None*, *Not Applicable* or *N/A* where appropriate. Complete each section with the best available information to date.
3. Use the *Project Information* section below to describe your project and its purpose.
4. If there are *multiple* sites, please use a *separate form* for *each* location.
5. BC Hydro may request additional information upon review of this form and attachments.

PROJECT INFORMATION

CONTACT INFORMATION

Customer Name:	Consultant Name:
Address:	Address:
Phone Number(s):	Phone Number(s):
Email:	Email:

LOCATION INFORMATION

Address:

Latitude (deg min sec):

Longitude (deg min sec):

Property Information (Lot #):

Description (closest town, etc.):

Substation Code (if existing site and BC Hydro customer):

Transmission Line Number (if existing site and BC Hydro customer):

INTERCONNECTION INFORMATION (if new site)

1. The System Impact Study cannot be started if this section is left blank.
2. Refer to [the map of BC Hydro's transmission system](#) prior to completing this section.
3. If you need help selecting a Preferred Point of Interconnection, contact the BC Hydro representative assigned to this project.
4. The Point of Interconnection will be confirmed by BC Hydro during the System Impact Study phase. BC Hydro will inform the customer prior to the completion of the study if the Preferred Point of Interconnection, Voltage or Method is not acceptable.
5. Provide the BC Hydro substation name or code, or the transmission line number for the Preferred Point of Interconnection.
6. The Preferred Interconnection Voltage should match the voltage available at the Point of Interconnection. If the voltage does not match, provide an explanation in the Other Comments section.
7. Examples of Preferred Interconnection Method could be tapped connection or dedicated line position.
8. If available, provide a map of the interconnection location in PDF format with this form.

Preferred Point of Interconnection:

Preferred Interconnection Voltage (kV):

Preferred Interconnection Method:

OTHER COMMENTS

LOAD INFORMATION

1. For each project stage, including construction power (if required), provide the **incremental** Connected Load and Coincident Peak Demand increase, estimated Load Factor and Power Factor after completion of the stage.
2. Project stages beyond eight years are not required in this table.
3. If there are no existing stage, transmission construction power requirement or multiple project stages, enter *N/A* in the relevant row(s).
4. Provide only the steady-state load values. Transient and dynamic load values are *not* required in this table.
5. The *minimum* Power Factor must be 95% or higher (when the actual load is 75% or higher of the Peak Load) for the load to be interconnected to the BC Hydro transmission system.
6. Enter the total Connected Load and Coincident Peak Demand, estimated Load Factor and Power Factor after completion of all project stages.

Project Stage	Requested In-Service Date	Connected Load (MW)	Coincident Peak Demand (MW)	Load Factor (%)	Power Factor (%)
Existing					
Construction Power					
Stage 1					
Stage 2					
Stage 3					
Stage 4					
Stage 5					
Total					

OTHER COMMENTS

REQUIRED DOCUMENTS

Please provide any supporting documentation that could help BC Hydro to complete this information request. The attachments should be provided electronically in PDF format along with a completed version of this form. Information provided must be *clearly* legible if printed on 11" x 17" paper.

Conceptual Review Required Documents

1. *If available*, the customer's substation's **AC Electrical One-line diagrams**. These diagrams should show the connections of all substation equipment.

Where there are multiple electrical one-line diagrams, submit an overall one-line diagram which clearly summarizes the plant distribution substations, connected motor and static loads, capacitor banks or other reactive equipment, and any other major equipment.

System Impact Study Required Documents

1. The customer's substation's **AC Electrical One-line diagrams**. These diagrams should show the connections of all substation equipment, *plus* the following:
 - a. Size, configuration and impedance of transmission transformers
 - b. Size and connection voltage of power factor correcting capacitors or other reactive equipment
 - c. Surge arresters information including manufacturer's name, type, rating (kV), MCOV rating (kV) and energy absorption capability
 - d. Where there are multiple electrical one-line diagrams, an overall one-line diagram which clearly summarizes the plant distribution substations, connected motor and static loads, capacitor banks or other reactive equipment, and any other major equipment
2. Also include customer substation **Site Plans** which must show details of the primary electrical installation. The plans should show the location and orientation of the substation relative to the customer's plant and the proposed transmission connection point.

Note: If a Facilities Study is required *after* the completion of the System Impact Study, BC Hydro will require the customer's substation's P&C One-line diagram(s). The diagram should contain, or be accompanied by, the proposed service entrance fuse size or proposed relay settings. BC Hydro may also request additional information as indicated by the findings of the System Impact Study.

LIST of ATTACHED DOCUMENTS