

*This fact sheet provides preliminary information about the anticipated scope, procurement processes and timing for contracts associated with the transmission and substation components of the Site C Clean Energy Project.*

### TRANSMISSION AND SUBSTATION

The transmission and substation components of the Site C project will be procured through multiple contracts, including existing BC Hydro blanket contracts and agreements. The contract areas are outlined below.

#### Transmission Line: Construction

Two new 500 kV transmission lines will be built from Site C to the Peace Canyon Dam over a distance of approximately 75 kilometres. The lines will be located along an existing transmission right-of-way between the Site C dam and the Peace Canyon generating station.

It is anticipated that a single construction contract will be issued that could include the following:

- Preparation of access roads, work areas and tower sites;
- Supply and installation of new 500 kV transmission line foundations;
- Removal of existing 138 kV transmission lines;
- Assembly and erection of lattice towers and hardware;
- Stringing of conductors; and,
- Ancillary works such as site roads, site drainage and site restoration.

#### Transmission Line: Supply of Lattice Towers

It is anticipated that the contract could include:

- Detailing of lattice tower structures;
- Test assembly and load testing of newly designed towers as required; and,
- Manufacture and supply of lattice tower structures, including fasteners.

#### Transmission Line: Supply of Conductors

It is anticipated that the contract could include:

- Manufacture and supply of ACSR conductors.



#### Transmission Line: Supply and Delivery of Grillage Foundations

- It is anticipated that the transmission line foundation supply contract could include the manufacture, supply and delivery of steel grillage foundations.

#### Site C Substation: Design and Supply of 500 kV Shunt Reactor

It is anticipated that the contract could include:

- Design, supply and manufacture of one 500 kV, 135 MVAR shunt reactor.

#### Site C Substation: Construction

It is anticipated that a single construction contract will be issued for both the 500 kV and 138 kV switchyards, which could include the following:

- Civil work including site preparation, fencing, foundations, oil containment and crushed rock surfacing;
- Construction and fit-out of the control building;
- Supply and installation of the storage building;
- Electrical work including steel erection, buswork, power and control cables, grounding, lighting and equipment assembly and installation;
- Installation of protection and control equipment; and,
- Installation of telecommunication equipment and tower.

### Site C Substation: Supply of Pre-Fabricated Control Building

It is anticipated that this contract could include the design, supply and fabrication of the control building for the Site C substation.

### Site C Substation: Supply of 550 kV Disconnect Switches

It is anticipated that this contract could include the design, supply, testing and delivery of 550 kV disconnect switches for the Site C substation.

### PROCUREMENT PROCESS

The transmission and substation components of the Site C project will be procured through multiple contracts, including existing BC Hydro blanket contacts and agreements.

Contract	Procurement start date	Contract award date	Construction timeline (subject to change)
Transmission line: construction	Spring 2017		2017-2022
Transmission line: supply of lattice towers	September 16, 2016		Supplied from 2017-2019
Transmission line: supply of conductors, insulator, hardware assemblies, spacer dampers, compression dead ends and splices and guy wires, hardwares and assemblies	Spring 2017		Supplied in 2018
Transmission Line: supply of grillage foundations	December 2016		Supplied in 2017
Site C substation: design and supply of 500 kV shunt reactor	August 15, 2016	February 2017	Supplied in 2018
Site C substation: construction	Spring 2017		2017-2019
Site C substation: supply of pre-fabricated control building	December 2016	March 2017	Supplied in 2017
Site C substation: supply of 550 kV disconnect switches	December 6, 2016	March 2017	Supplied in 2017
Site C substation: supply of various high voltage equipment (blanket contracts)	Winter 2017		Supplied from 2017-2018

*The Site C Clean Energy Project is a hydroelectric dam and generating station under construction in northeast B.C. The project is being built to meet long-term electricity needs in B.C. Once complete in 2024, the project will provide clean, renewable and cost-effective electricity for more than 100 years.*