

SITE C

The Site C Clean Energy Project will be a third dam and hydroelectric generating station on the Peace River in northeast B.C. Subject to approvals, Site C will be a source of clean, renewable electricity for more than 100 years. It will provide enough electricity to power approximately 410,000 homes per year. Site C will be a publicly owned heritage asset for the benefit of all British Columbians.

Project Status:

- Site C is currently in the third stage of a five-stage process. Stage 3 is the regulatory review phase, which includes an independent environmental assessment.
- Construction of Site C will be subject to required regulatory approvals, and ensuring that the Crown's constitutional duties to First Nations are met.
- The regulatory review of Site C is expected to take about two years, and it is anticipated that Site C will be available for domestic electricity needs by 2020.

The Project:

Dam (based on historic project design)		Reservoir	
Type:	Earthfill dam	Length:	83 kilometres
Height:	60 metres above river bed	Width:	2-3 times the current river
Length:	1,100 metres	Total Reservoir Surface Area:	9,310 hectares
Energy:	4,600 GWh	Total Flooded Land Area:	5,340 hectares
Capacity:	900 MW	• Crown land:	4,318 hectares (81%)
		• BC Hydro-owned land:	662 hectares (12%)
		• Private land (20 land holdings):	360 hectares (7%)

Project Benefits:

- The Site C Clean Energy Project will provide lasting economic and social benefits for northern communities, Aboriginal groups and the province.
- Site C will help meet B.C.'s future electricity needs by providing 900 megawatts of capacity and 4,600 gigawatt hours of electricity each year.
- Site C will produce among the lowest greenhouse gas emissions per gigawatt-hour, when compared with other forms of electricity generation. This will help B.C. further displace fossil fuel-generated electricity with clean energy.
- As the third project on one river system, Site C will generate 30 per cent of the electricity produced at the W.A.C. Bennett Dam with only five per cent of the reservoir area.
- Site C will contribute to the local and provincial economy by creating an estimated 7,650 direct construction jobs through the construction period, and up to 35,000 direct and indirect jobs through all stages of the project.

- As a source of firm energy, Site C will facilitate the development of clean energy projects by providing additional capacity to back up intermittent resources, such as wind, run-of-river hydro and solar.



Historic conceptual design of the Site C Clean Energy Project