KEY PROJECT COMPONENTS
The Site C project design includes the following key project components:

- An earthfill dam, approximately 1,050 metres long and 60 metres high above the riverbed.
- A generating station with six 183 MW generating units.
- An 83-kilometre-long reservoir that would be, on average, two to three times the width of the current river.
- The realignment of up to six segments of Highway 29 over a total distance of up to 30 kilometres.
- A berm at Hudson's Hope along the shoreline.
- Two new 500 kilovolt AC transmission lines that would connect the Site C facilities to the existing Peace Canyon Substation, along an existing right-of-way.
- Access roads in the vicinity of the site and a temporary construction access bridge across the Peace River at the dam site.
- Construction of two temporary cofferdams across the main river channel to allow for construction of the earthfill dam.
- Worker accommodation options include two construction camps at the dam site, with other workers being housed off site and in the region.
**KEY DESIGN UPGRADES**

Site C design upgrades include the following features:

- The south valley wall under the dam, the generating station and ancillary structures, and the spillways are reinforced with a long concrete buttress to improve foundation stability and provide greater seismic protection.

- An overflow auxiliary spillway enhances safety so that even if the plant loses all power, it can safely pass the upstream flows.

- A centre wall divides the gated spillway into two sections, allowing either section of the spillway to be maintained or repaired, while retaining spill capacity in the other section.

- Larger turbines result in increased generating capacity. This provides improved capability for BC Hydro to meet winter peak loads, and allows for greater integration of intermittent renewable sources, such as wind.

**ABOUT BC HYDRO**

Fifty years ago, British Columbians turned to BC Hydro to build the clean electricity system they count on to power B.C.’s economy, create jobs in every region, and keep the lights on. Now, BC Hydro is building again for the next 50 years. B.C. continues to grow and so has the need for more electricity. That's why BC Hydro is building, renewing, and encouraging conservation to meet today’s needs and those of future generations.

More information on Site C can be found at: [www.bchydro.com/sitec](http://www.bchydro.com/sitec).