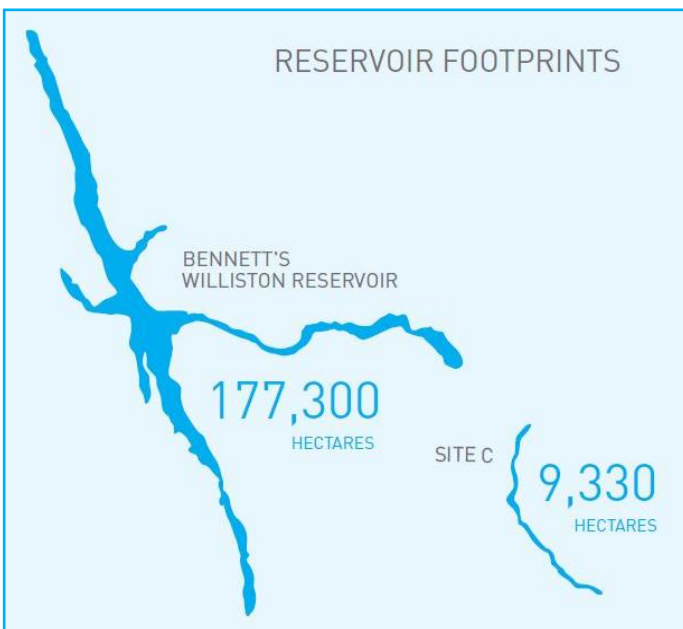# SITE C RESERVOIR

The Site C Clean Energy Project (Site C) will be the third hydroelectric facility on the Peace River, located downstream of BC Hydro's existing W.A.C. Bennett and Peace Canyon dams. The Site C reservoir will be approximately 83 kilometres long and will be, on average, two to three times the width of the current river. It will flood approximately 5,550 hectares of land and will have a total surface area, including the current river area, of approximately 9,330 hectares.

The Site C reservoir will be comparatively smaller than BC Hydro's other major hydroelectric projects because it will rely on the existing Williston Reservoir for water storage.

As the third project on the Peace River, Site C will re-use the same water flowing downstream from the two upstream facilities and simply pass it along. This will enable Site C to generate approximately 35 per cent of the energy produced at the W.A.C. Bennett Dam, with only five per cent of the reservoir area.



RESERVOIR FOOTPRINTS

BENNETT'S WILLISTON RESERVOIR

177,300 HECTARES

SITE C 9,330 HECTARES

*"The Panel finds that BC Hydro's proposed dam would benefit hugely from the upstream storage and regulation, providing firm, seasonally modulated power for many decades beyond its amortization period."*

- Report of the Joint Review Panel, page 272

*"The Project would not have any measurable effect on the Peace-Athabasca Delta."*

- Report of the Joint Review Panel, page v

The Site C reservoir will be one of the most stable in the BC Hydro system with relatively little fluctuation in water levels during typical operations.

The proposed maximum normal operating range for the Site C reservoir will be 1.8 metres — between 460.0 metres and 461.8 metres. However, during typical operations the reservoir is expected to fluctuate within a smaller range.

Downstream of the facility, at the B.C./Alberta border, flows are expected to be within today's normal range. Far downstream at the Peace-Athabasca Delta — approximately 1,100 kilometres away — studies filed in the environmental assessment found that the Site C project will have no noticeable effect.