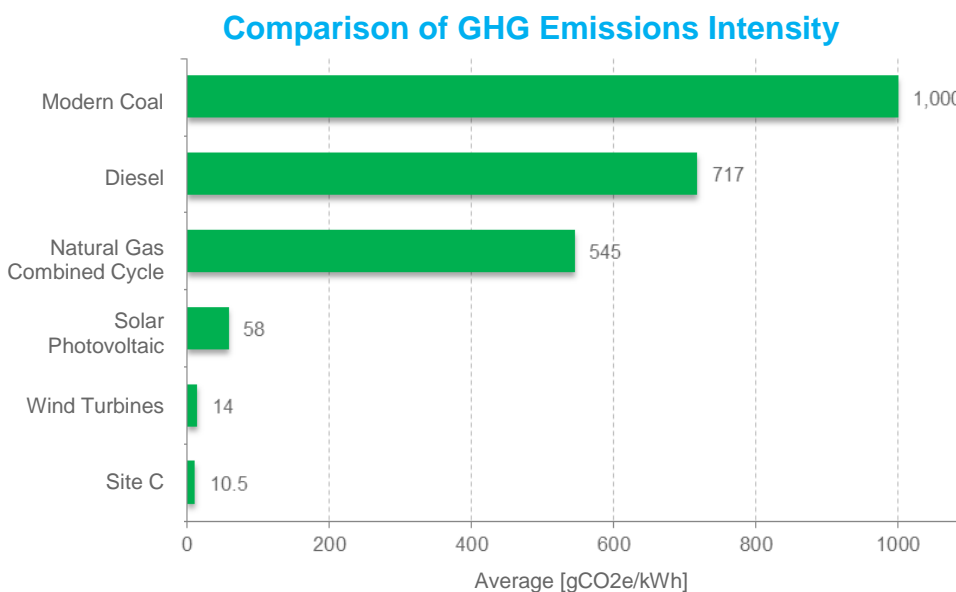


# INFORMATION SHEET

## GREENHOUSE GAS EMISSIONS

All electricity generation resources emit some greenhouse gas (GHG) emissions during construction and operations. As part of the environmental assessment process, the potential GHG emissions from the Site C Clean Energy Project (Site C) were modelled using Intergovernmental Panel on Climate Change guidelines.

The modelling found that Site C would have among the lowest GHG emissions, per gigawatt hour, compared to other forms of electricity generation. GHG emissions from Site C would be at levels comparable to other renewable sources, such as wind and run-of-river hydro, and substantially less than thermal sources such as natural gas, diesel or coal.



Site C emissions would fall within the low end of the emission range reported for reservoirs around the world.

Unlike some reservoirs in tropical environments that release high levels of methane, evidence has shown that hydroelectric reservoirs in northern environments emit much lower quantities of GHG emissions.

The project also benefits from having a relatively small reservoir in relation to the amount of energy produced. This is due to the upstream storage provided by BC Hydro's existing Williston and Dinosaur reservoirs, which allow 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.

Over the next 100 years, Site C would produce the same or lower GHG emissions than other generation options available in B.C. for the 5,100 GWh of energy that produced per year.

### ABOUT SITE C

The Site C Clean Energy Project (Site C) is a proposed third dam and hydroelectric generating station on the Peace River in northeast B.C. Site C would provide 1,100 megawatts (MW) of capacity, and produce about 5,100 gigawatt hours (GWh) of electricity each year — enough energy to power the equivalent of about 450,000 homes per year in B.C.

Subject to environmental certification, Site C would be a source of clean, renewable and cost-effective electricity for more than 100 years.