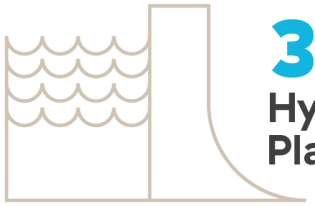
Our Electrified Future

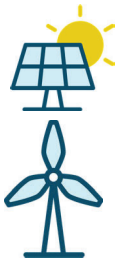
Ted Olynyk

BC Hydro
Power smart

A Robust Power System

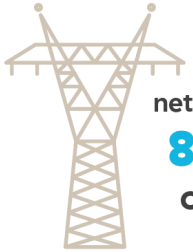


30
Hydro Plants



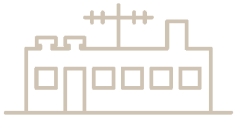
125
IPP Projects

5 million
customers

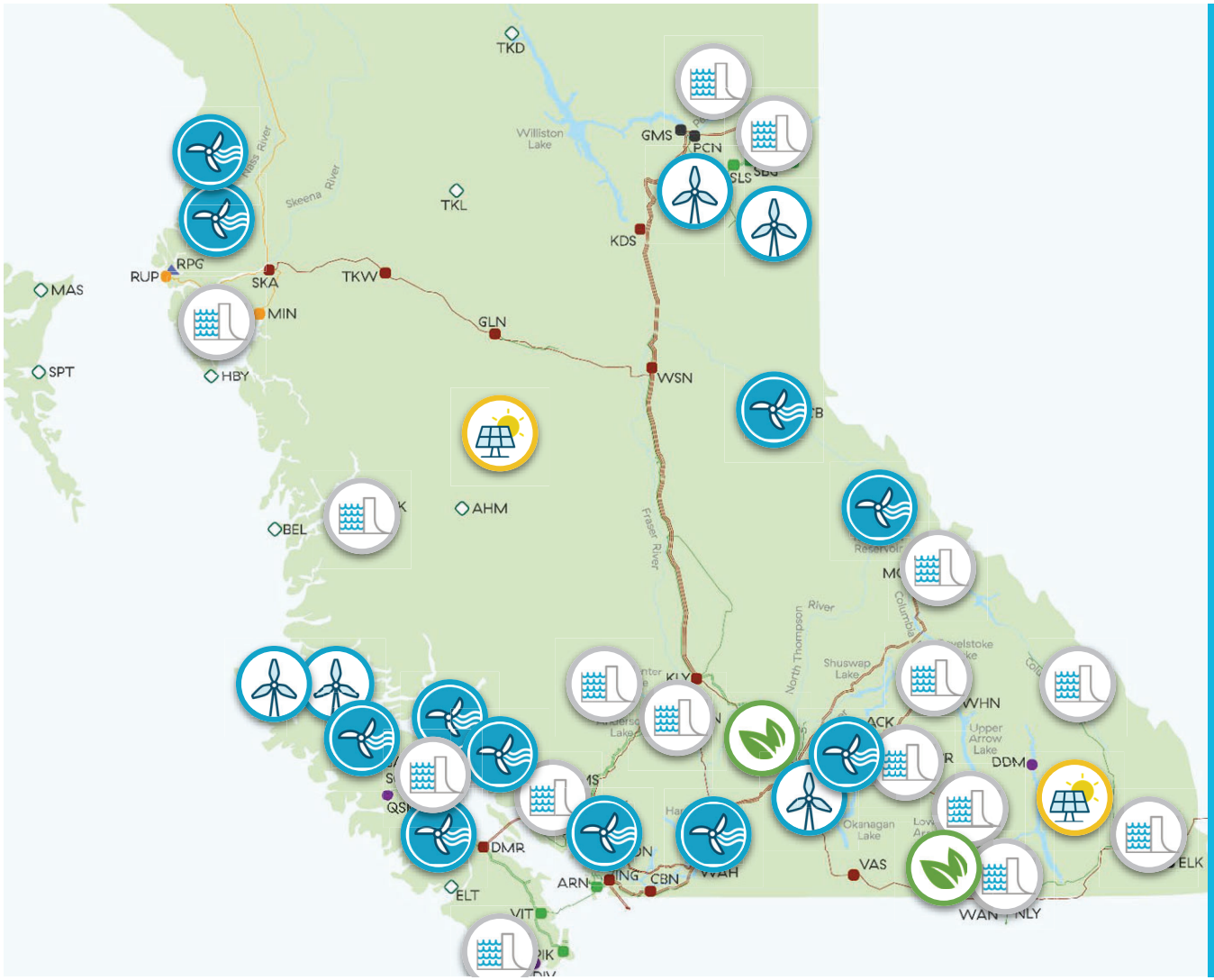


BC Hydro has a network of approximately
80,000 kms
of transmission & distribution lines

Over 300



substations



Where does our electricity originate?

69% Large hydro

19% IPP hydro

5% Biomass

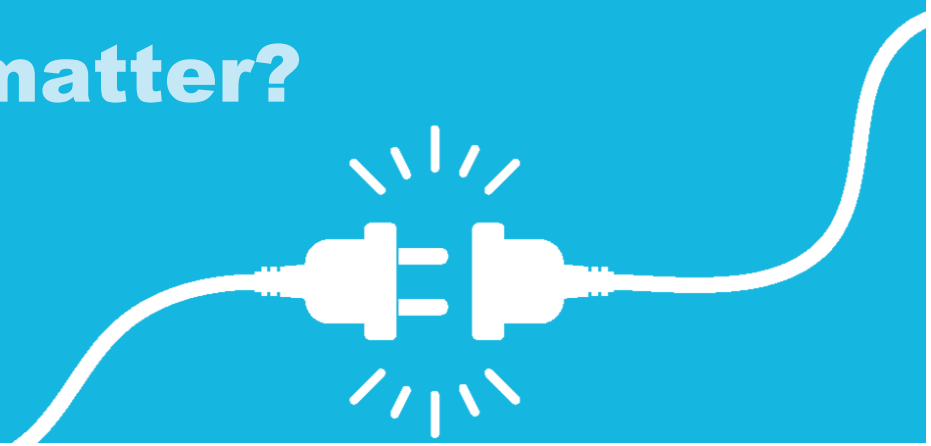
3% Wind

<1% Solar

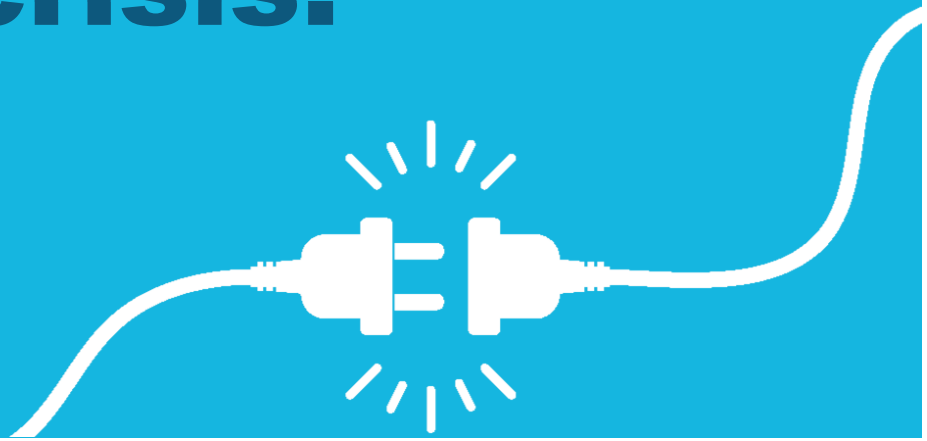
2023/24 - 2025/26 Service Plan (Feb 2023).
Gas is approximately 1.4%

What is electrification?

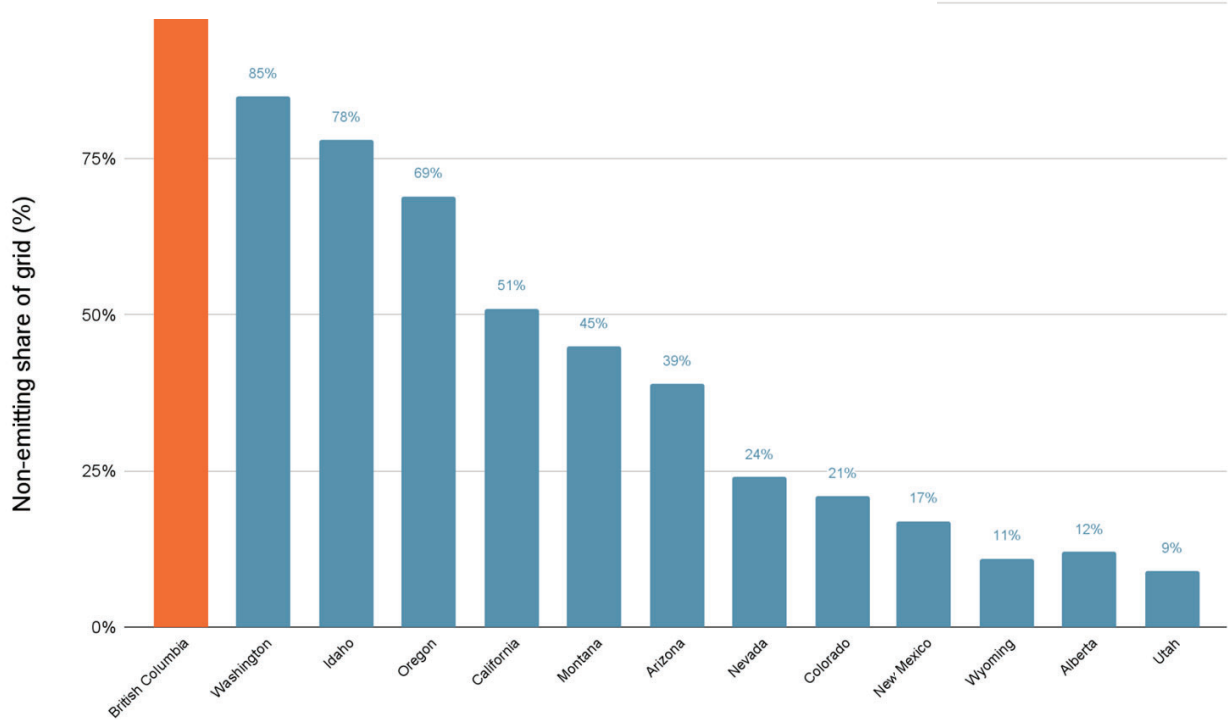
..and why does it matter?



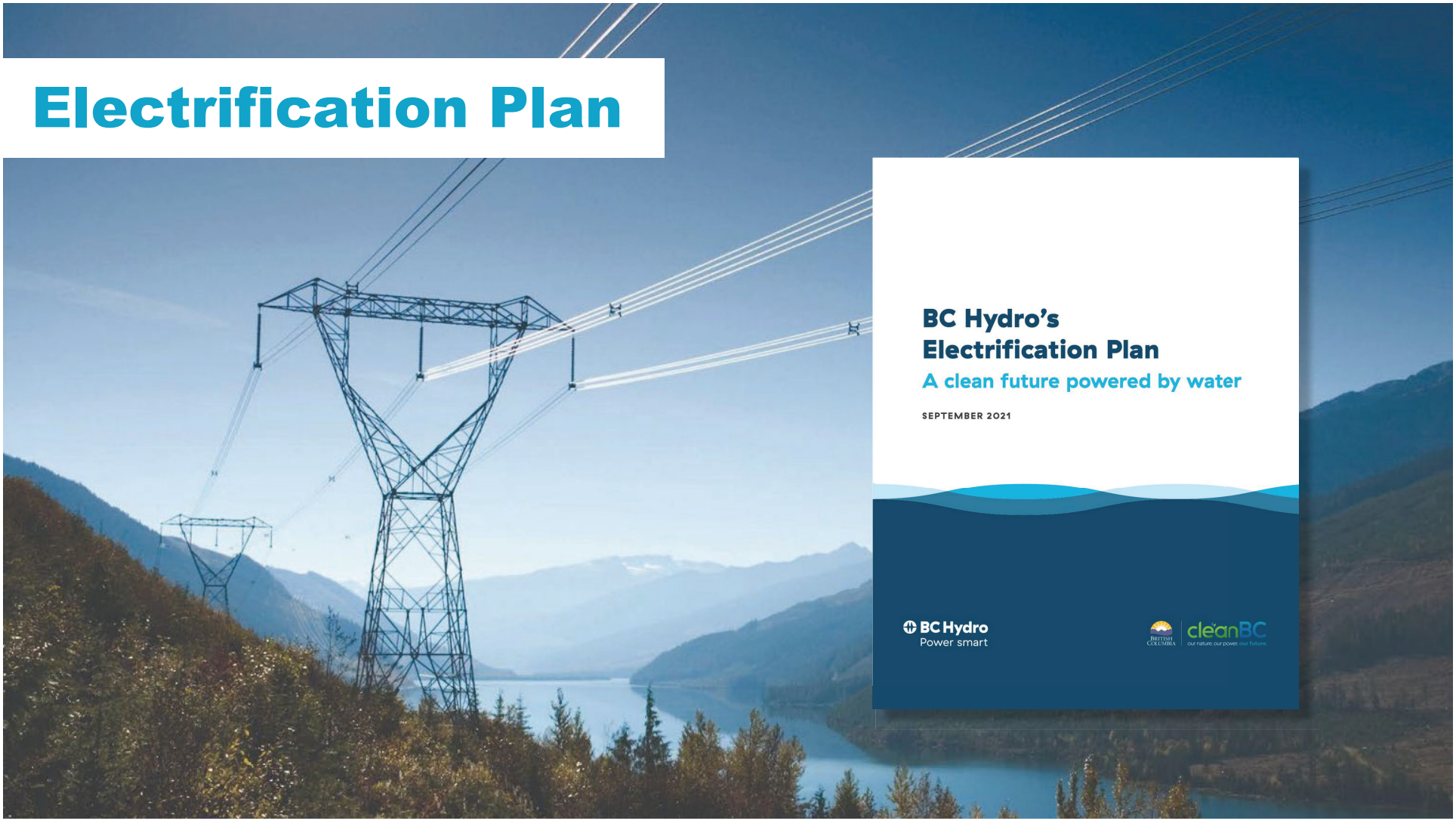
In BC, Electrification is one of the responses to the climate crisis.



A Clean Power Leader

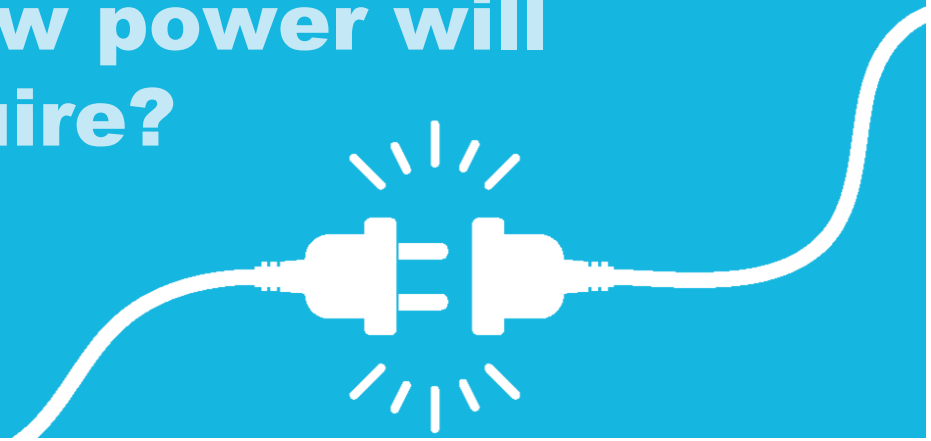


Electrification Plan



When will we need more electricity?

..and how much new power will electrification require?

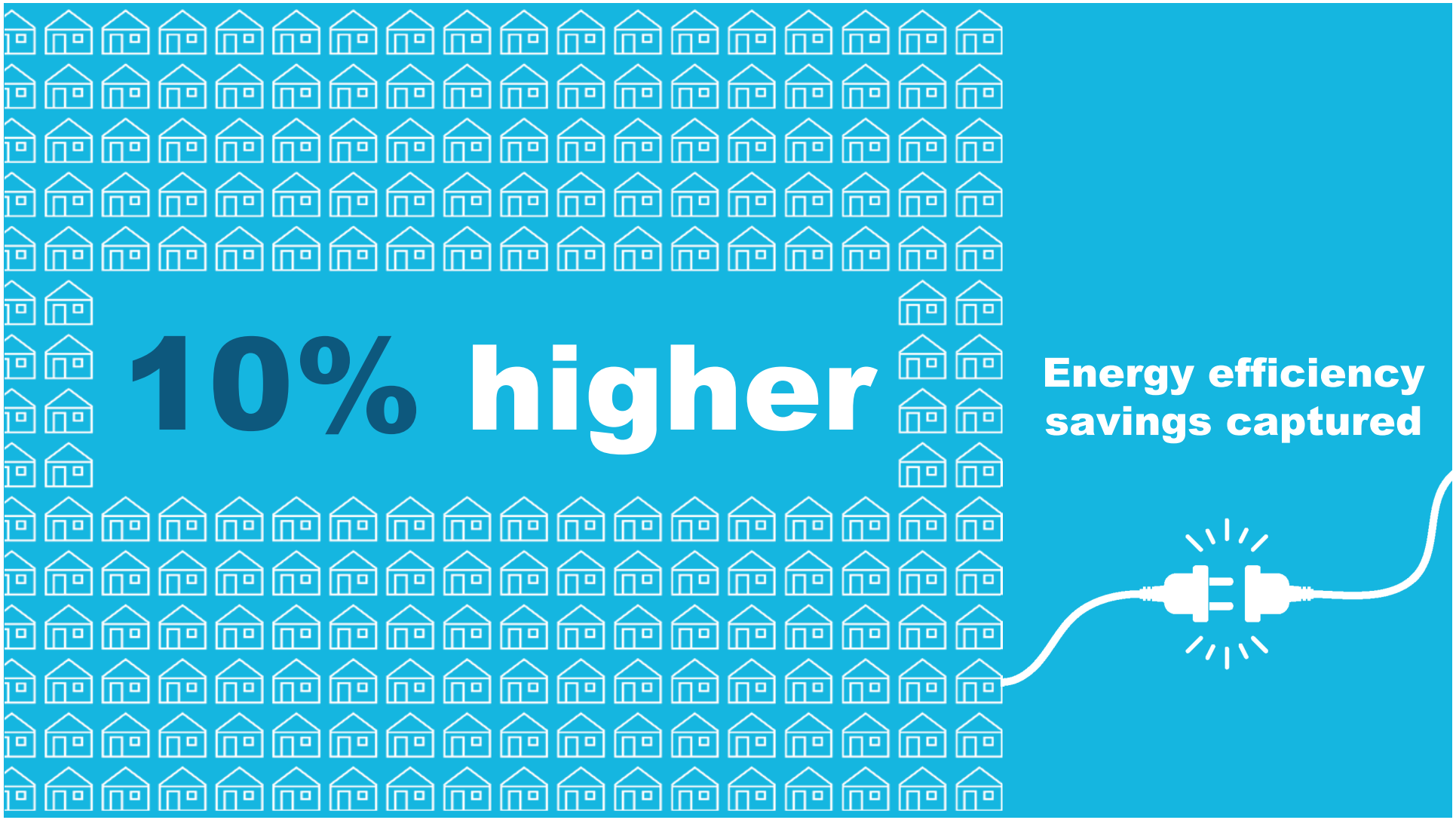


SITE C

Online in 2025

Supply increase by 8%

Upcoming Call for Power: A call for new renewable electricity


10% higher
Energy efficiency savings captured

Investing in our wires: The Capital Plan

$36 BILLION

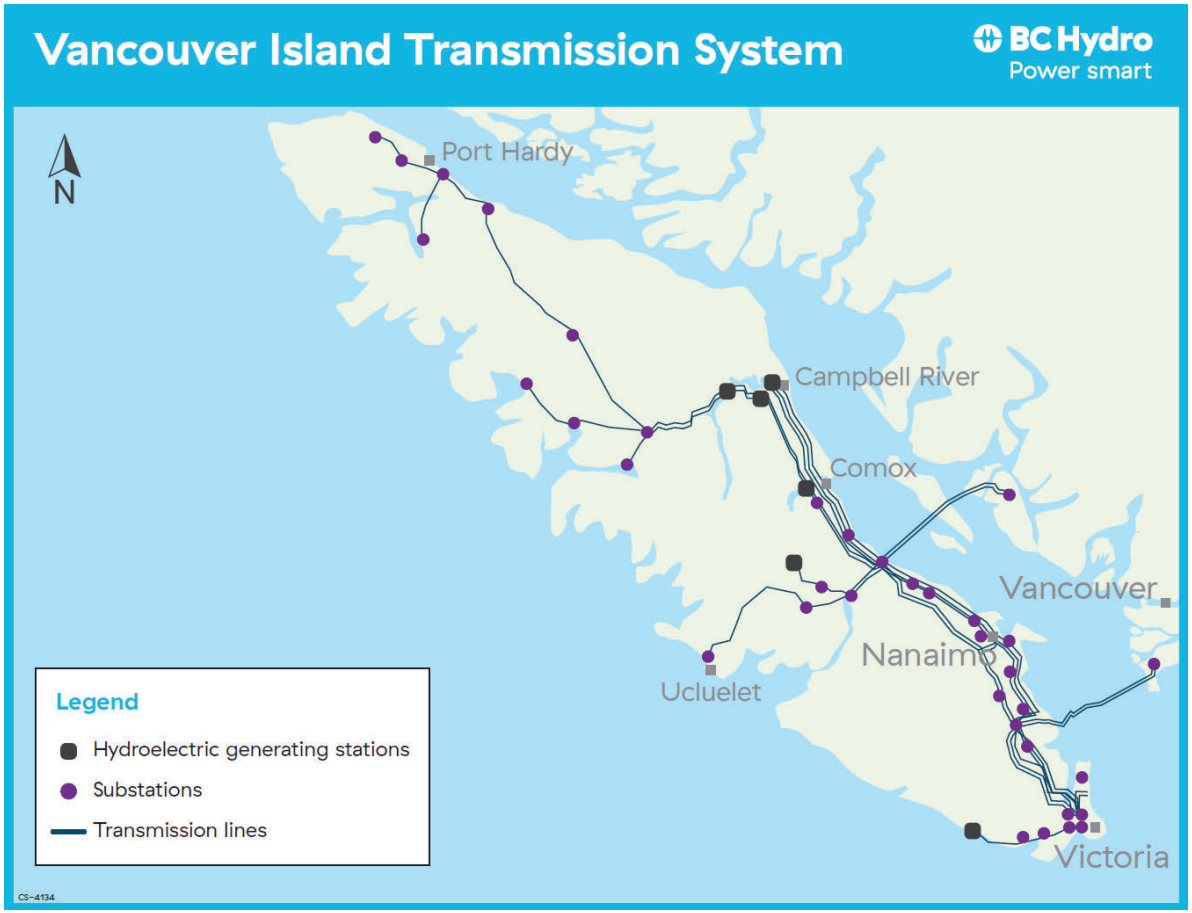
Sustainment
$21 BILLION

Electrification and GHG reduction
$10 BILLION

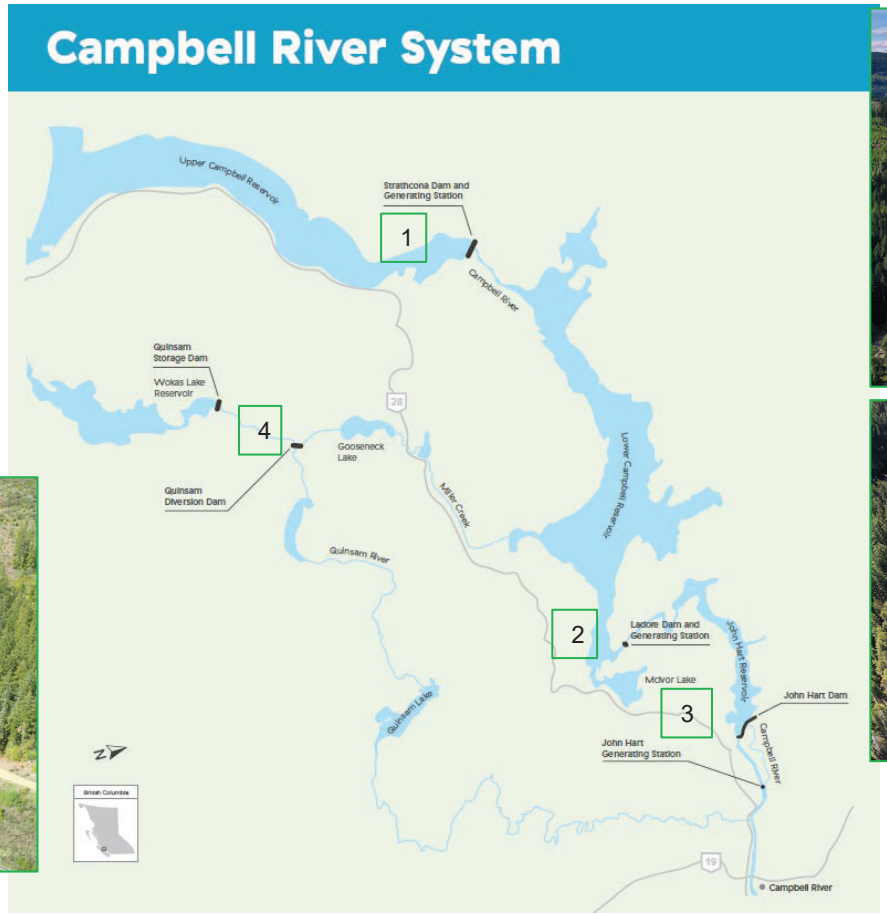
Reinforcement
$5 BILLION

Vancouver Island Transmission and Power Supply, and Capital Projects

Stephen Watson


Vancouver Island Transmission System
BC Hydro
Power smart
N
Port Hardy
Campbell River
Comox
Vancouver
Nanaimo
Ucluelet
Victoria
Legend
Hydroelectric generating stations
Substations
Transmission lines
CS-4134

Campbell River System



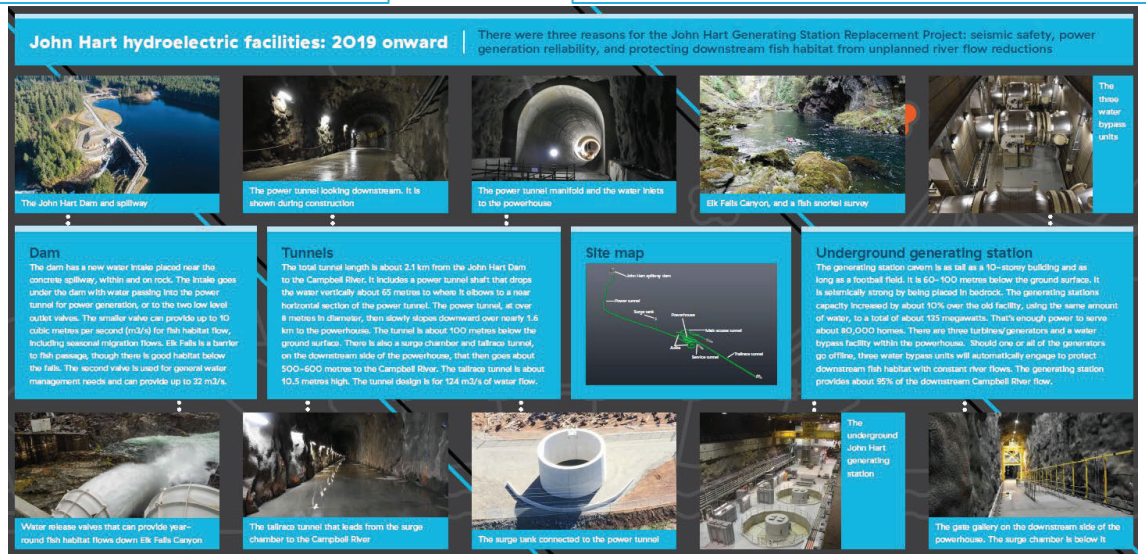
Campbell River Hydroelectric Facilities Discovery Centre

John Hart Generating Station Replacement

2007 - 2020

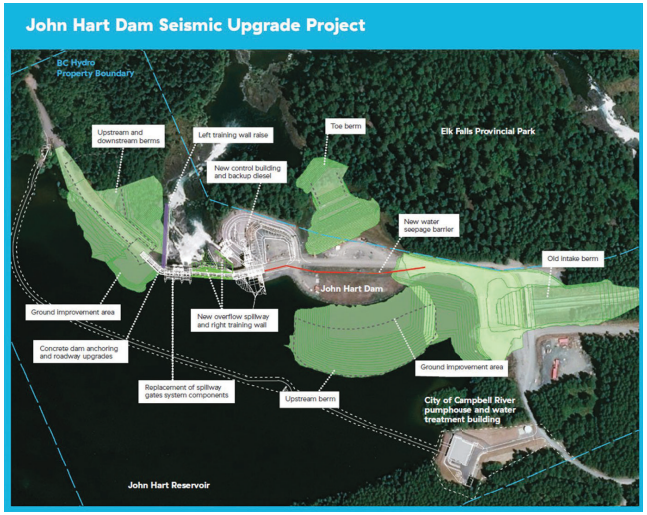
Project drivers met:
- Reliability
- Safety
- Fish Habitat

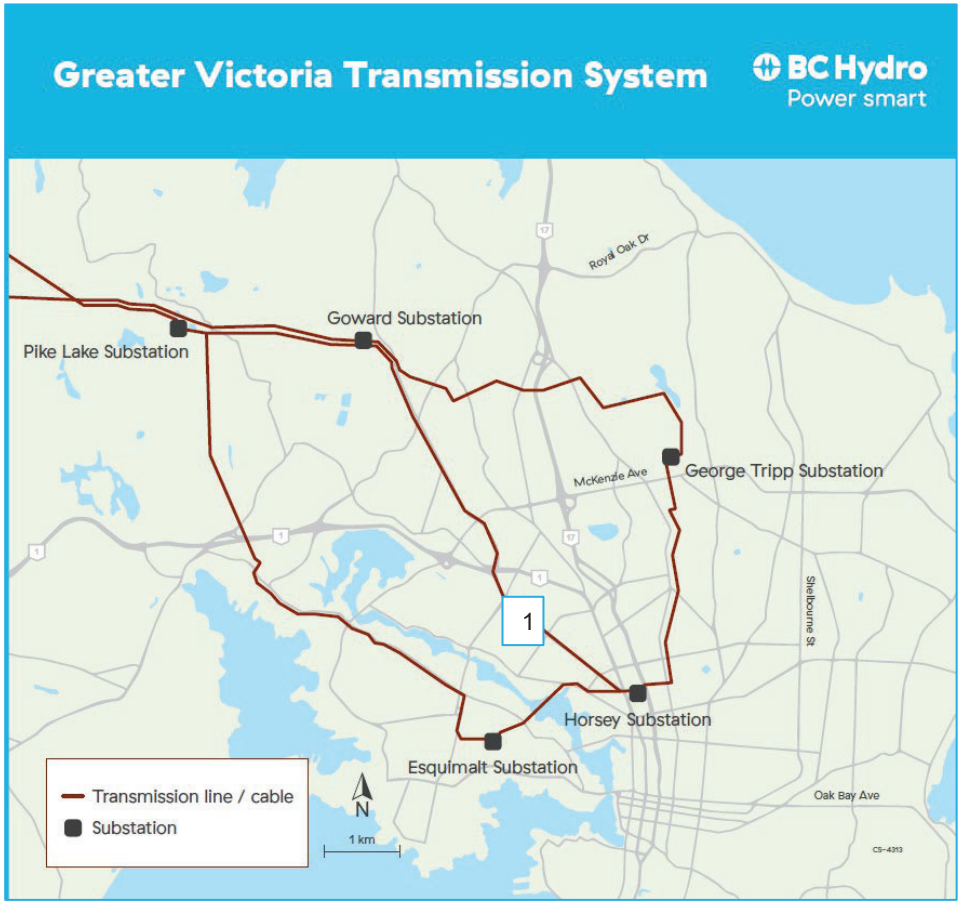
Some project achievements:
- Under budget
- No lost time accidents
- No significant environmental incidents
- Design: Increased power generation capacity



John Hart Dam Seismic Upgrade Project

Project drivers:
- Downstream public safety
- Reliability

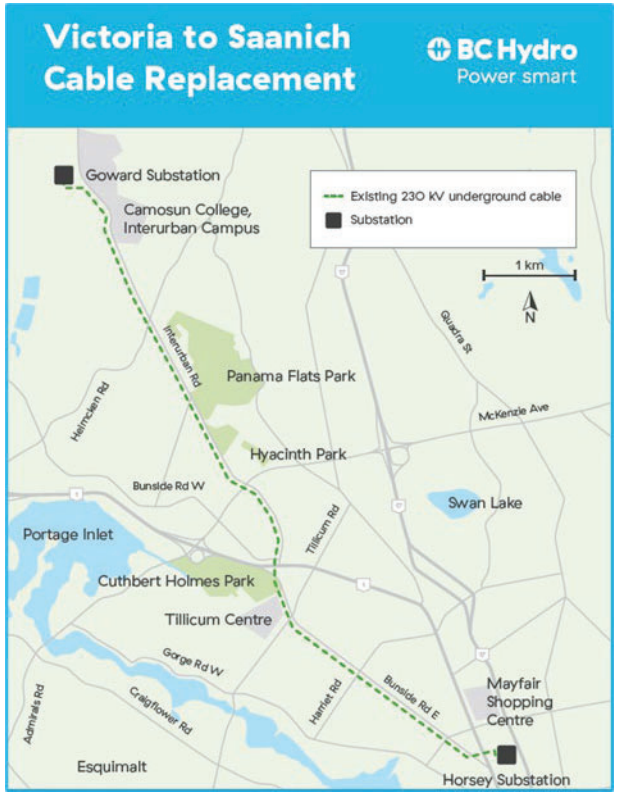




1: Victoria to Saanich Cable Replacement Project

Project Overview

- We are committed to delivering safe and reliable electricity to our customers across the province.
- The Victoria to Saanich Cable Replacement Project is planning to replace a 230 kilovolt, direct buried, oil-filled transmission cable.
- The cable is regularly monitored and maintained and is critical to the electricity supply for Greater Victoria.
- This circuit is nearing end of life and requires replacement.
    - It is at moderate risk of failure
- Continued electricity load growth requires additional cable capacity.

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