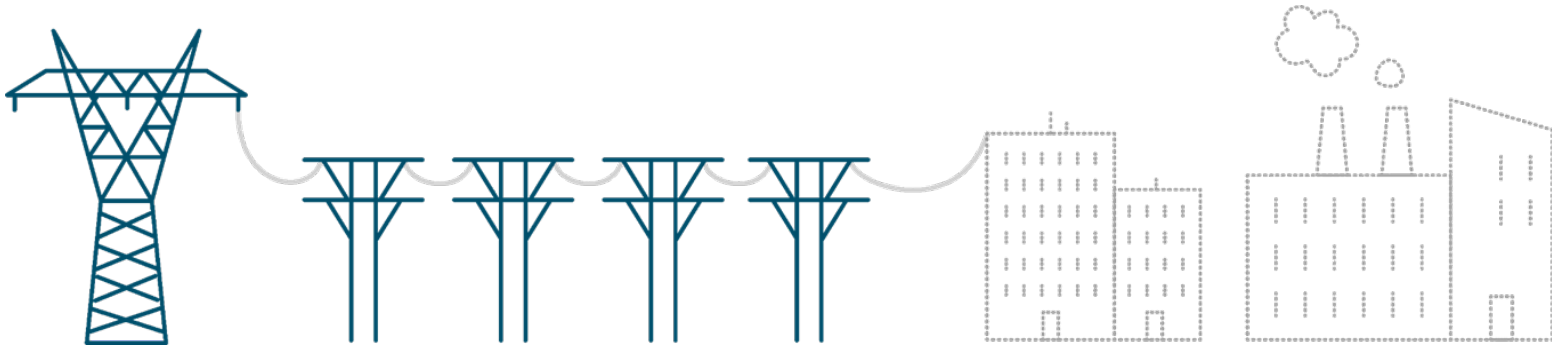


Our Electrified Future



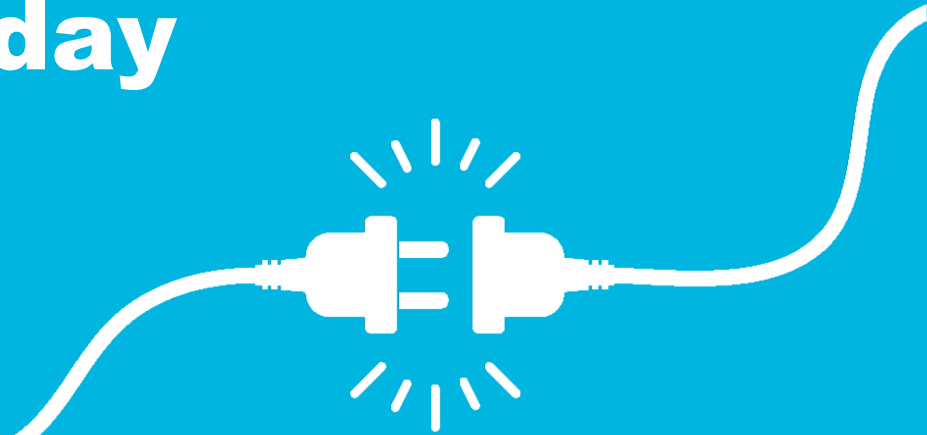
Diana Stephenson, SVP, Customer & Corporate Affairs
Charlotte Mitha, EVP, Operations

Today's presentation

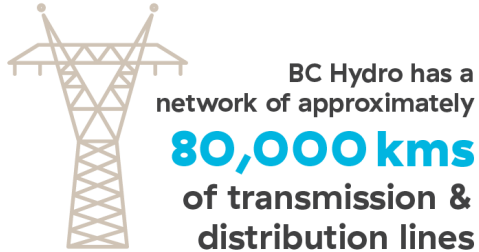
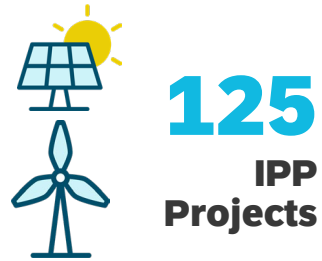
- Overview of our system
- The climate crisis and BC's strategy to address it
- How we're preparing for electrification
- Challenges we're working to address
- Partnering with the City of Vancouver

Energizing British Columbia

Our System Today



A Robust Power System



5 million
customers



Where does our electricity originate?



69%
Large hydro



19%
IPP hydro



5%
Biomass



3%
Wind

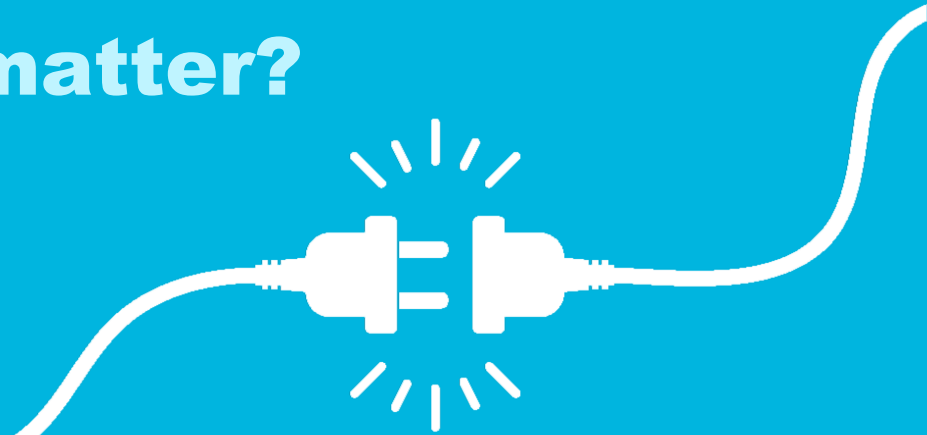


<1%
Solar

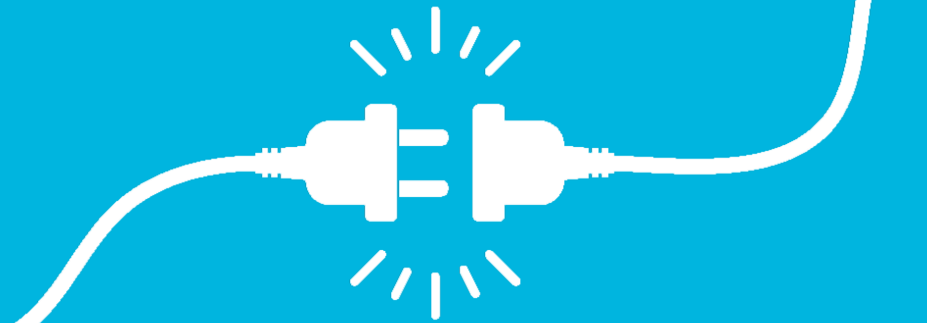
2023/24 - 2025/26 Service Plan (Feb 2023).
Gas is approximately 1.4%

What is electrification?

..and why does it matter?

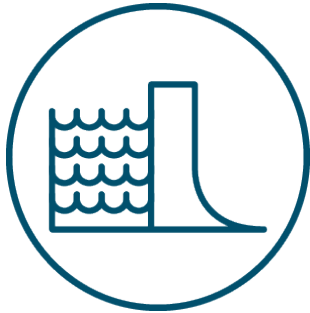


**In BC, Electrification is
one of the responses to
the climate crisis.**

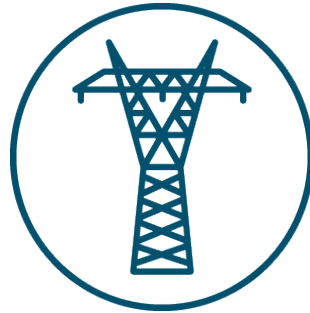


Electrification is Transforming our Business

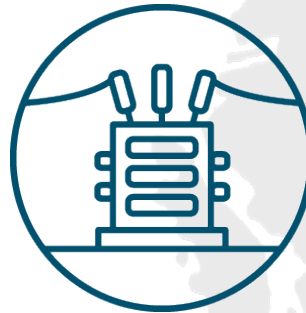
Generation



Transmission



Distribution



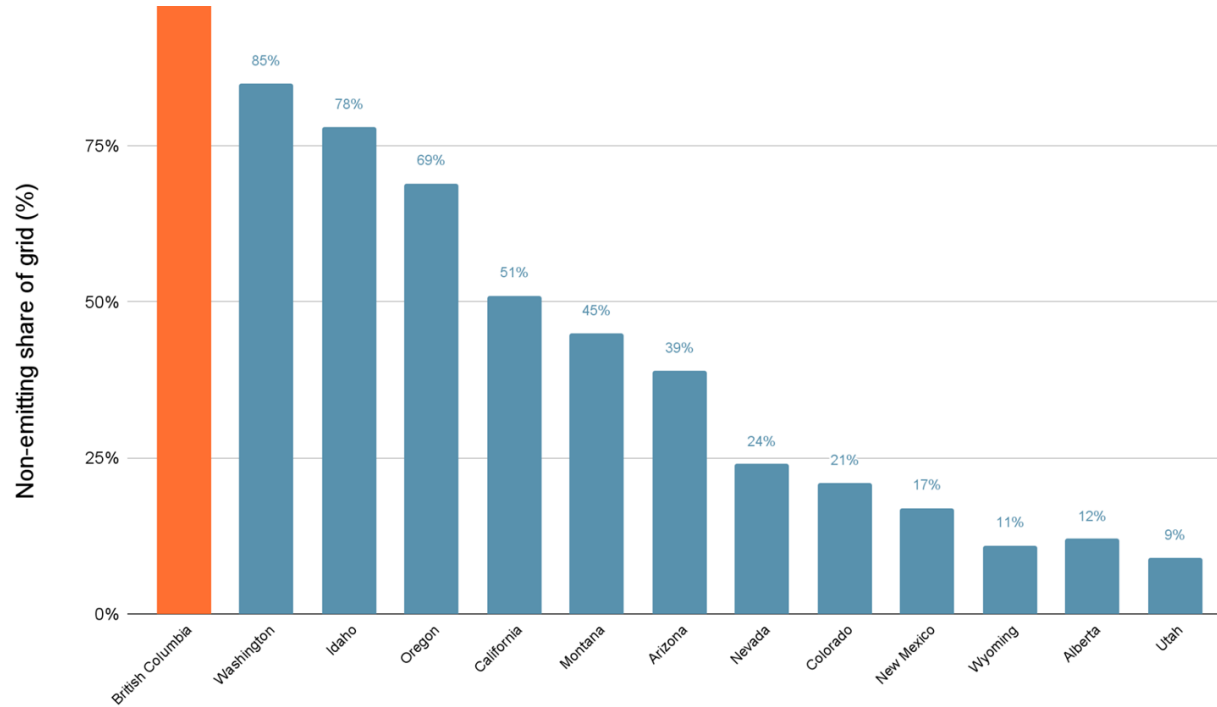
Our Customers



Key investments required

Enablement & Choice

A Clean Power Leader



Electrification Plan

BC Hydro's Electrification Plan

A clean future powered by water

SEPTEMBER 2021

 **BC Hydro**
Power smart

 **cleanBC**
our nature. our power. our future.

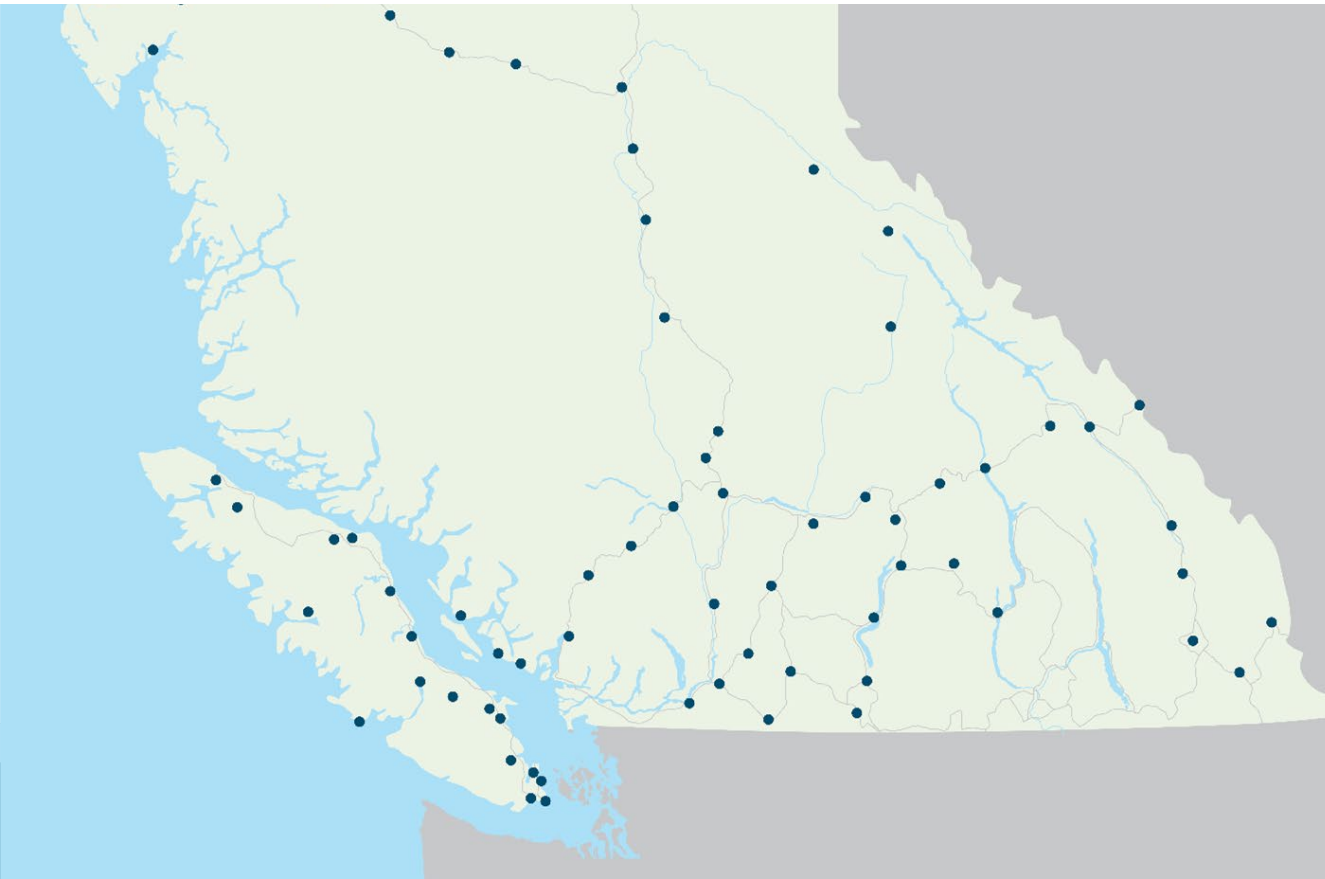
Electrification Plan: Buildings



Electrification Plan: Transportation



Hydro's Fast-Charging Network

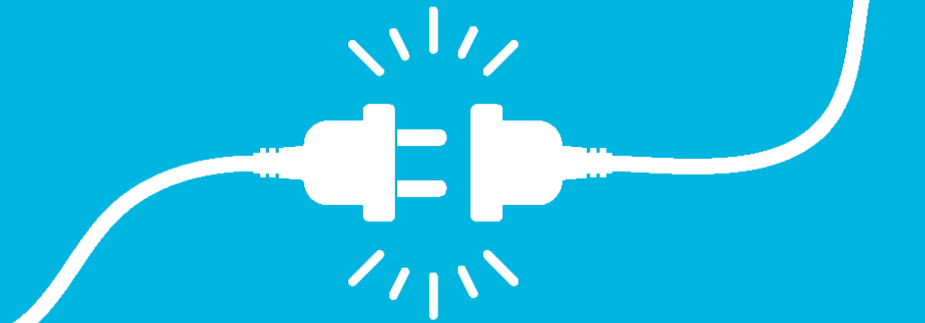


162
fast-charge
stations

Two big questions:

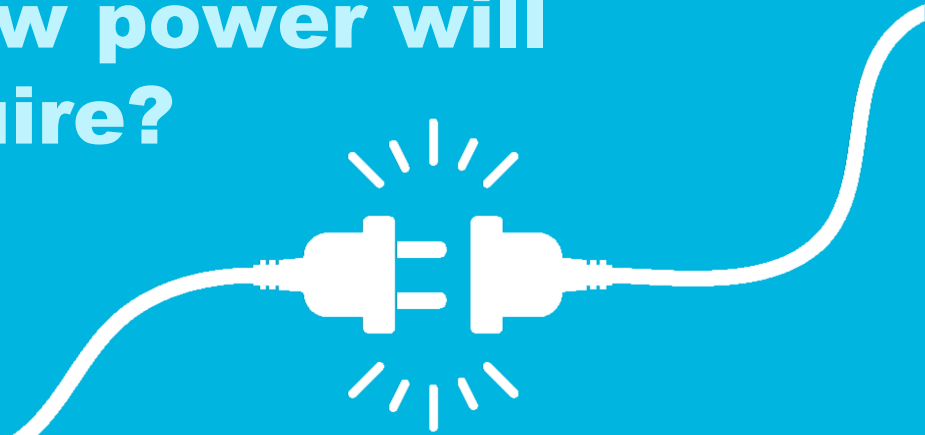
**When will we
need more
electricity?**

**How will we keep
the grid strong
and reliable?**



When will we need more electricity?

**..and how much new power will
electrification require?**



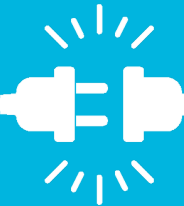


SITE C

Online in 2025

Supply increase

by 8%



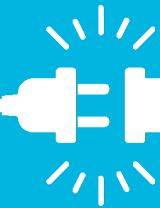


**Upcoming Call for Power: A call
for new renewable electricity**

A grid of white house icons on a blue background. The icons are arranged in a regular pattern, with some missing in the center to accommodate the text.

10% higher

**Energy efficiency
savings captured**



A Roadmap to Our Electrified Future

Clean Power 2040
Powering the future

 **BC Hydro**
Power smart

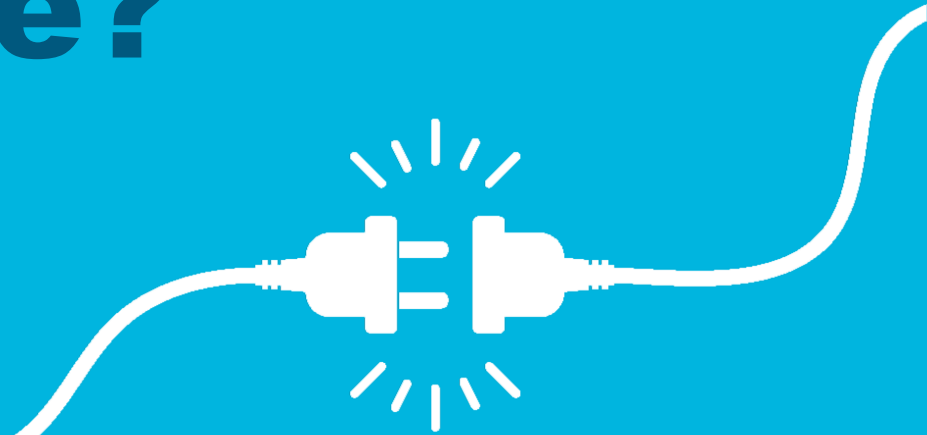
BC Hydro and Power Authority
2021 Integrated Resource Plan

Expanding Customer Choice



**Example:
Optional
residential
time of use
rate**

**How will we keep
the grid strong
and reliable?**



Investing in our wires: The Capital Plan

\$36 BILLION



Sustainment
\$21 BILLION



**Electrification and
GHG reduction**
\$10 BILLION



Reinforcement
\$5 BILLION

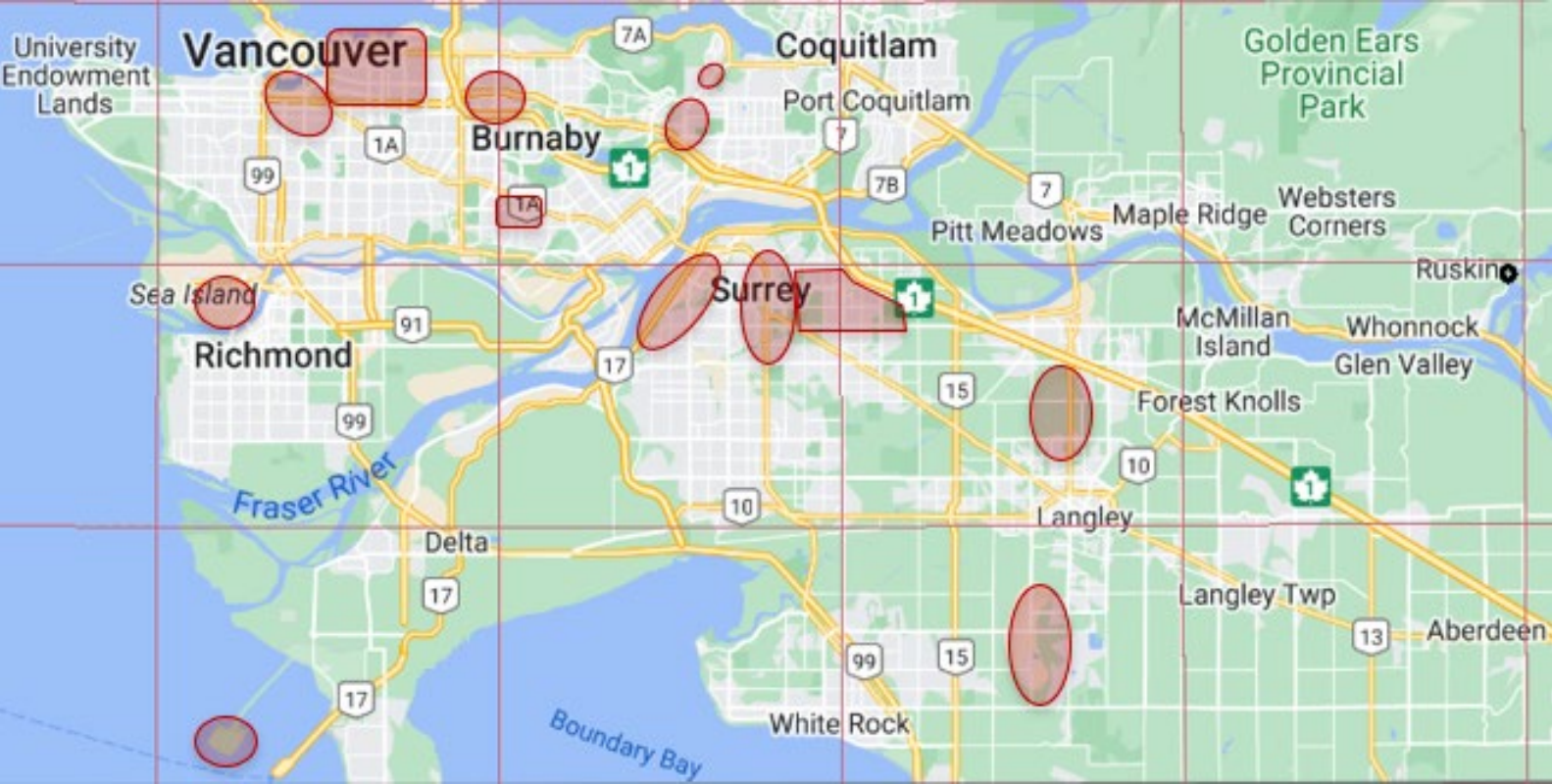
Transmission & Distribution Grid



Boosting Transmission Capacity



On the Horizon: Planned Projects in Metro Vancouver



On the Horizon: Planned Projects in Vancouver

Present: West End Substation
Expansion

2028: Mount Pleasant Substation
Expansion

2029: New East Vancouver
Substation



Strengthening Grid Resiliency



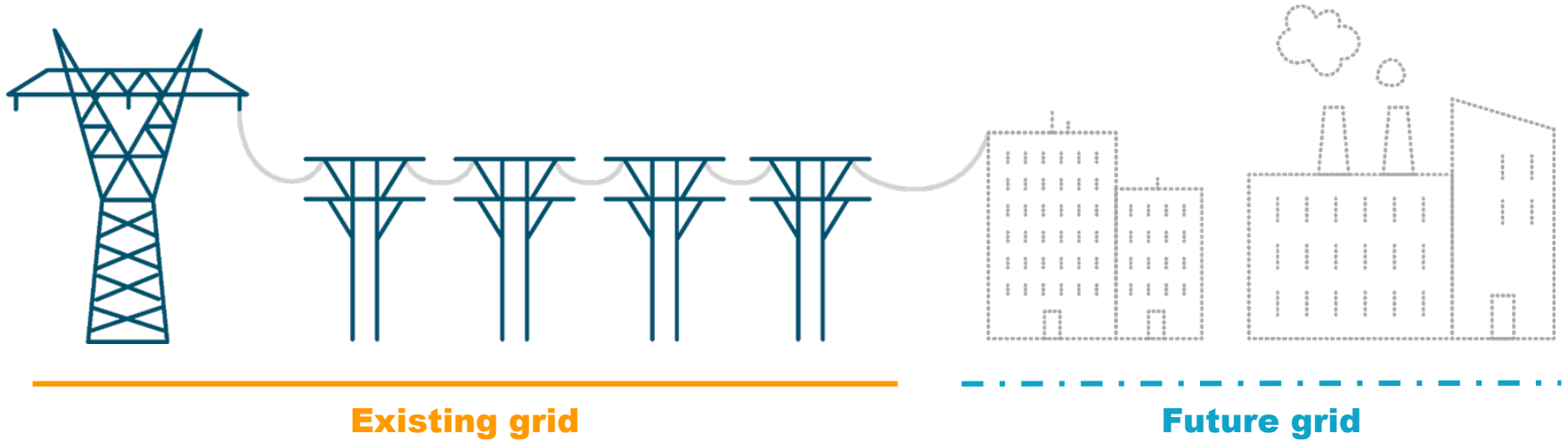
**Climate change:
How BC Hydro is adapting**



December 2020

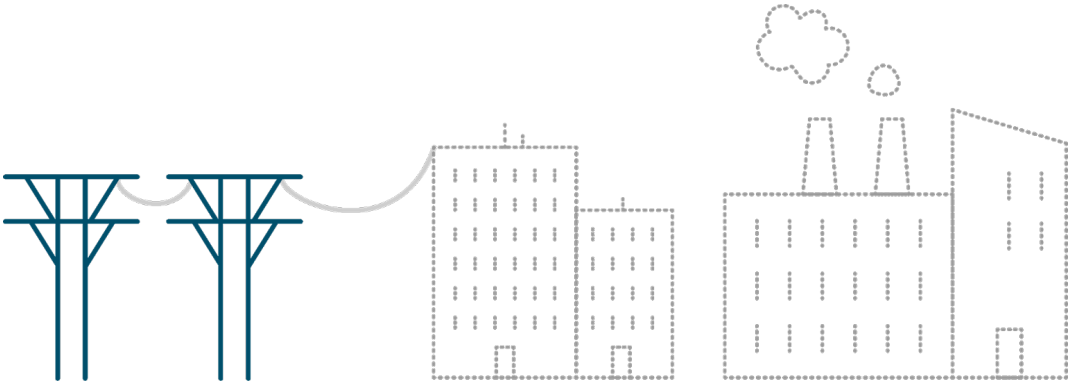
 **BC Hydro**
Power smart

Challenges: Grid Extensions



Challenges: Connection Timelines

4,800
Complex connections
each year



We Need Your Help!



Working Together with the City of Vancouver





BC Hydro

Power smart