

2019 | ANNUAL REPORT

WATERPOWER
CANADA

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WATERPOWER CANADA
HYDROÉLECTRICITÉ CANADA



2019 was a transformative year for our national waterpower association in many ways. We inaugurated our new name – WaterPower Canada – early in the New Year, followed by a suite of initiatives and new programs aimed at raising the profile of the waterpower sector in Canada. We represent a sector that provides more than 60% of Canada’s total electricity, contributes billions to the Canadian economy every year and supports more than 130,000 jobs coast to coast to coast.

Yet, as significant as our sector is economically, socially and environmentally, waterpower rarely is praised for all its key contributions. Our story needs to be told more loudly and nationally. Harnessing the power of water truly is one of Canada’s best advantage in addressing climate change; it acts as North America’s blue battery, helping us move toward a 100% non-emitting grid and can assist our neighbour to the South decarbonize along the way as well. It is also a technology that works extremely well with wind and solar; renewables helping renewables to build a better, cleaner future for the next generations.

As Canadians, waterpower is part of our DNA. It has built the Canada we know today and thanks to the tremendous innovation taking place in the sector, it can also be a key solution in the future enabling the electrification of the Canadian economy.

There is certainly lots to improve too and we are striving to become the best we can be in all we do. In a world where climate change is affecting livelihoods and is the single largest threat to human kind, leveraging assets such as clean electricity is simply smart and logical. 2019 was the year when we laid down the foundation blocks of our work moving forward. Looking at the future, we will be focusing on communicating our value proposition and partnering with government and stakeholders to realize our full potential.

We are extremely proud to work for and serve the waterpower industry. The next decade will see our focus shift from large greenfield projects to refurbishment and redevelopment of the existing fleet. Many exciting things lie ahead. We encourage you to be part of the journey!



Anne-Raphaëlle Audouin,
President, WaterPower Canada



WATERPOWER CANADA: WHO ARE WE?



We are the voice of the **largest** electricity sector in Canada.

50+

More than 50 members, representing almost all hydro generators in the country as well as private sector companies providing goods and services to the industry.



3 full time staff.



6 committees/ working groups.

1998

Founded in **1998**.



Headquartered in **Ottawa**.

THE INDUSTRY WE SERVE:

500+

Truly a national resource:
500+ hydro facilities in
Canada, with sites in every
province and territory.



Canada's original renewable
with first site developed in
1891 in the nation's capital.



100+ agreements developed
over the years with Indigenous
communities across the country,
representing procurement,
revenue sharing, training and
other opportunities.



Soon to be **85,000MW**
installed capacity.



2nd largest hydro generator in the
world, after China.



Technical potential to double our
installed capacity to **more than**
150,000MW.



Canada's **#1 asset** in reducing
GHG emissions.



130,000 jobs supported by the
sector and **billions** contributed to
the Canada Gross Domestic
Product every year.



YEAR IN REVIEW

The Canadian Hydropower Association rebranded as **WaterPower Canada.**



Organizational **growth** (hired two new full time staff).



Strategic Plan with key focus on **communications** and **advocacy**.



Revenue growth of 35% from 2018 to 2019 due to renewed leadership and new revenue streams.



Welcomed **4** new members.



Conference grew more than **120%** bringing in almost 400 participants!



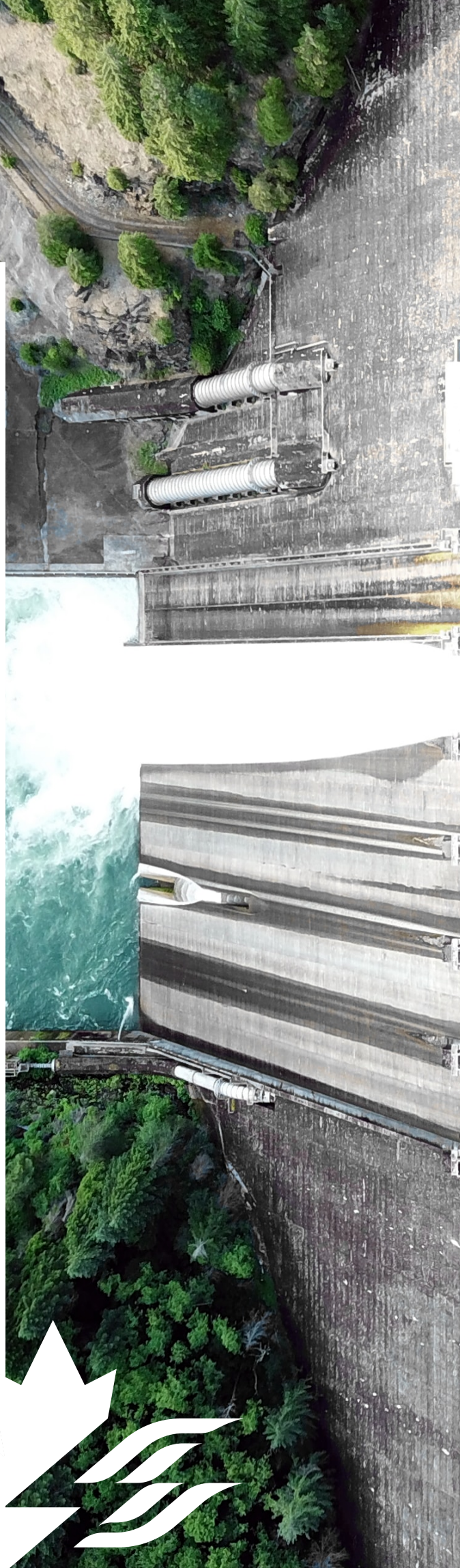
Our first national hydropower **trade show** ever!



Worked on very **important legislative and regulatory changes** proposed by the federal government and secured safeguard measures for our operations and future developments.



Launched our **Supply Network** and **Engineering Network**, bringing together waterpower expertise from all over the country and North America for an enhanced learning experience and continuous improvement.



OUR EYES ARE ON THE FUTURE...

DECARBONIZATION



Thanks to hydro, Canada has **one of the cleanest electricity grids** in the world.

60%

6 out of 10 Canadian homes and businesses are powered by clean, renewable, affordable, reliable hydro.

ELECTRIFICATION



With less than 2% of Canada's undeveloped hydro potential, **we could power ALL of Canada's light duty vehicle fleet** and still have energy to spare!

20%

Only about 20% of our total energy-use is currently electric. There is certainly **room to do better and electrify our economy further.**

GENERAL GROWTH



There are **YEARS** worth of electricity supply stored in our reservoirs across the country.



Waterpower comes in many shapes and forms. While greenfield projects were common over the past decades, we will likely see **more refurbishments** over the next few years.



Within our existing fleet lies tremendous capacity addition opportunities as well. Over the next year, we will work on **quantifying exactly what this represents** and how it can be unlocked.



2019 IN PHOTOS...





GET IN TOUCH



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