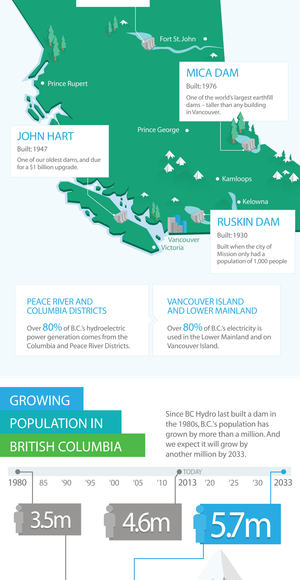
THERE'S WORK TO DO

To keep up with B.C.'s robust population and economic growth, BC Hydro is investing in new energy projects to power B.C. forward.

OUR SYSTEM TODAY

While the current grid has served B.C.'s growing economy well for many years, it's getting old. Here's a look at some of the most vital dams in B.C.'s power grid:



PEACE RIVER AND COLUMBIA DISTRICTS

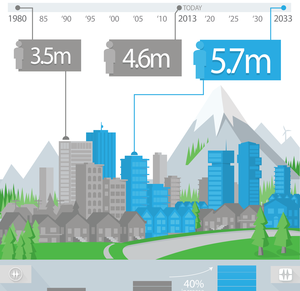
Over 80% of B.C.'s hydroelectric power generation comes from the Columbia and Peace River Districts.

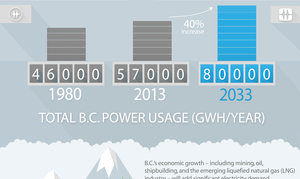
VANCOUVER ISLAND AND LOWER MAINLAND

Over 80% of B.C.'s electricity is used in the Lower Mainland and on Vancouver Island.

GROWING POPULATION IN BRITISH COLUMBIA

Since BC Hydro last built a dam in the 1980s, B.C.'s population has grown by more than a million. And we expect it will grow by another million by 2033.





POWERING B.C. FORWARD

CONSERVATION

BC Hydro's draft Integrated Resource Plan points to conservation as a means of saving 78,000 gigawatt hours per year by 2021.

That's the equivalent of reducing new electricity demand by approximately 75%

British Columbians are already saving enough power to meet the annual needs of more than **400,000 HOMES.**

INVESTMENTS IN THE GRID

We're busy upgrading or adding substations, transmission lines and other parts of the grid.
Here are a few of our projects:

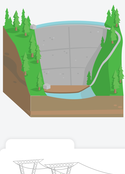
37x BIGGER

The District of Mission's population has grown from 1,000 to 37,000 since the Ruskin powerhouse was built in 1930.

RUSKIN DAM

Location: Mission
Built: 1930s
Upgrades: 1950s

The Ruskin Dam is being rebuilt and designed to withstand a 1-in-10,000 year earthquake.



MICA DAM

Location: Columbia-Shuswap
Built: 1973

One new turbine will increase Mica's capacity by approximately 500 megawatts, or about the same amount of energy it takes to power 40,000 homes and businesses during peak demand periods.

INTERIOR TO LOWER MAINLAND TRANSMISSION PROJECT

This project – a twinning of transmission capacity between Merritt and Coquitlam – will move enough energy to supply another 80,000 homes a year.

GORDON M. SHRUM GENERATION STATION

Location: W.A.C. Bennett Dam Built: 1968

The turbine replacement work at GMS will add 177 gigawatt hours of energy per year to the system – enough to power 1,500 homes – without using additional water.

MOUNT PLEASANT / SOUTH FALSE CREEK

Demand for electricity in the Mount Pleasant/South False Creek area is expected to increase by almost 40% over the next 10 years, and by as much as 82% over the next 30 years.

VANCOUVER CITY CENTRAL TRANSMISSION PROJECT

Location: City of Vancouver
Built: 2013

The biggest investment in central Vancouver's electrical system in almost 30 years will significantly increase the supply of power throughout the city.

With smart investments in energy infrastructure and conservation, we can meet the electricity demand created by the booming B.C. population and industrial growth.

BC hydro
FOR GENERATIONS