

MICA / REVELSTOKE

The Province's goal is to maximize the value of British Columbia's public heritage assets for the benefit of B.C. ratepayers and taxpayers, and to lead British Columbia towards becoming a leading North American provider of clean, reliable, low carbon energy and technologies that reduce greenhouse gas emissions while strengthening B.C.'s economy.

The Revelstoke and Mica dams are key heritage assets located in BC Hydro's Columbia River system.

The **Mica Generating Station** began operating in 1977. It was originally designed as a six-unit facility, with the installation of Units 5 and 6 being deferred until additional capacity was needed. That capacity is needed now. BC Hydro is planning to build on the visionary investments of previous generations by adding 500-megawatt turbines to the last two empty bays at the Mica Generating Station.

The **Revelstoke Generating Station** began operating in 1984 and, like Mica, was originally designed to accommodate six units. Construction of the fifth and sixth units was also deferred until additional capacity was required. The installation of a fifth turbine began in 2007 and should be completed by fall 2010. BC Hydro plans to add one 500-megawatt turbine to the sixth and last bay at the Revelstoke Generating Station.

Strengthening the System

Building capacity into the BC Hydro system is critical to accommodate B.C.'s growing demand for electricity. The additional capacity created by adding turbines at Mica and Revelstoke will allow BC Hydro to better serve all our customers during peak demand periods, which are usually during the coldest, darkest days of the year.

Status

The B.C. Environmental Assessment Office recently completed a two-year review of the Mica Unit 5 and 6 projects and has granted BC Hydro an Environmental Assessment Certificate. Following construction, the anticipated in-service date for Mica Unit 5 is 2014 and one year later for Mica Unit 6. Installing the sixth generating unit at Revelstoke is currently under consideration.

The Projects

	Mica	Revelstoke
Number of existing turbines	4	4
Total number of turbines following project completion	6	5
Existing capacity	1,805 megawatts	1,980 megawatts
Increased capacity following investment	2,805 megawatts	2,480 megawatts
Estimated capital investment	Between \$900 million and \$1.3 billion	\$280 million

Benefits

By developing clean energy projects, the Province will help generate new jobs and new economic opportunities in our communities, while lowering greenhouse gas emissions within and beyond our borders. The addition of the two turbines at Mica dam is expected to provide approximately 800 person-years of direct employment and 1,150 total person-years of direct and indirect employment. The addition of the single turbine at Revelstoke dam provides approximately 190 person-years of direct employment and 260 total person-years of direct and indirect employment.

Mica Dam



Revelstoke Dam

