

# Clean, reliable energy for today, tomorrow and the future

## Reliable, renewable energy for today – Over 5,200 MWs of hydropower capacity

Manitoba Hydro operates one of the most reliable and sustainable power systems anywhere.

Nearly all of the electricity (98%) generated each year is clean, renewable hydropower from our 15 hydroelectric generating stations.

With the addition in 2012 of the new 200-megawatt (MW) Wuskwatim Generating Station, developed through a partnership with the Nisichawayasihk Cree Nation, installed hydropower capacity now surpasses 5,200 MWs.

## A growing supply for tomorrow – 695 MWs of new hydropower under development

Manitoba Hydro is continuing to grow its hydropower capacity.

Construction is underway on the \$6.5 billion 695 MW Keeyask Generating Station on the Nelson River. Manitoba Hydro is developing Keeyask in partnership with four First Nations – Tataskweyak Cree Nation, War Lake First Nation, Fox Lake Cree Nation, and York Factory First Nation. Planned to be fully operational by 2021, Keeyask will be Manitoba's fourth largest generating station.

The Manitoba government regards the yet-to-be developed Conawapa Generating Station to be a vitally important component of Manitoba's energy future. Manitoba Hydro is continuing to work with our partners to secure necessary export commitments. Aboriginal Traditional Knowledge (ATK) studies and select scientific environmental studies in the project area are ongoing.

Strengthening transmission interconnections is necessary to provide the U.S. mid-west with additional access to clean, reliable hydropower. Manitoba Hydro is developing a new 500 kV international transmission line to Minnesota to connect to the Great Northern Transmission Line being developed by Minnesota Power. Projected in-service date is 2020.

## Even more resources for the future – 4,295 MWs

With the completion of Keeyask, there will still be another 4,295 MW of capacity available for development in Manitoba on the Burntwood and Nelson Rivers - including the 1,485 MW Conawapa Generating Station. Conawapa's earliest in-service date is 2029. Manitoba Hydro is well positioned to help our energy trading partners in the United States and Canada meet their growing needs for economic power through clean, renewable hydroelectricity.

Turn over the page to see the location and capacities of our existing, under development and potential hydropower generating sites.

# Current, under development and potential hydro development sites

- 1** **Burntwood River -**  
 Wuskwatim - 200 MW  
 First Rapids - 210 MW  
 Manasan - 270 MW  
 Early Morning - 80 MW

- 2** **Laurie River -**  
 Laurie River 1 - 5 MW  
 Laurie River 2 - 5 MW

- 3** **Saskatchewan River -**  
 Grand Rapids - 480 MW

- 4** **Nelson River -**  
 Jenpeg - 129 MW  
 Kelsey - 250 MW  
 Kettle - 1,220 MW  
 Long Spruce - 1,010 MW  
 Limestone - 1,340 MW  
 Keeyask - 695 MW  
 Conawapa - 1,485 MW  
 Gillam Island - 1,080 MW  
 Birthday - 380 MW  
 Redrock - 250 MW  
 Whitemud - 310 MW

- 5** **Upper Churchill River -**  
 Granville - 120 MW  
 Bonald - 110 MW

- 6** **Winnipeg River -**  
 Pine Falls - 89 MW  
 Great Falls - 136 MW  
 McArthur - 55 MW  
 Seven Sisters - 165 MW  
 Pointe du Bois - 77 MW  
 Slave Falls - 67 MW

- **Current sites-** 5,228 MW
- **Under development-** 695 MW
- **Potential sites-** 4,295 MW

