

# Winnipeg

MANITOBA, CANADA

Manitoba has an abundance of green, renewable energy.

**99.6 per cent of all power generated in Manitoba comes from renewable sources**, the second highest among Canadian provinces.<sup>1</sup>

Manitoba Hydro, a Crown corporation, is the sole utility for electricity and natural gas energy in the province.

**The company exports up to 2,450 MW of electricity per year**

to Saskatchewan, Ontario and the United States.<sup>2</sup>

From 2009 to 2018, more than

**\$4 billion in exports meant lower rates charged to Manitobans**

while helping utilities in other jurisdictions meet greenhouse gas emission targets.<sup>3</sup>

## Renewable energy

You can feel good about your environmental impact



### Hydro

**Manitoba Hydro can produce 5,648 MW of renewable hydropower**, most of it sourced from Manitoba's northern rivers.<sup>5</sup> When the Keeyask Generating Station comes online in 2021, the utility will be able to produce another 695 MW, bringing its total capacity to 6,343 MW of carbon-free energy.<sup>6</sup>



### Wind

Manitoba Hydro has power purchase agreements with two independent wind farms. Combined, the **wind farms have 133 wind turbines and capacity to produce 258 MW**, approximately five percent of Manitoba's electricity demand.<sup>7</sup>

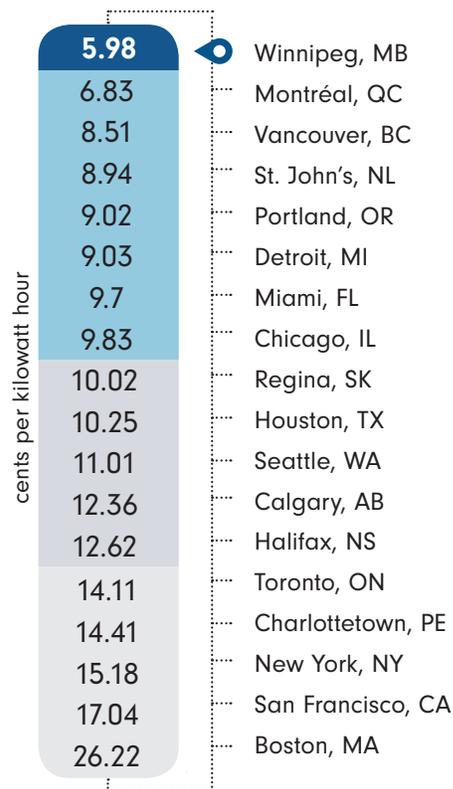


### Solar

**We are the second sunniest city in Canada<sup>8</sup>**. Hydropower remains the gold standard for renewable energy in Manitoba, but advancements in photovoltaic (PV) technology with solar farms and privately-owned solar projects also offer opportunities for companies.

## Hydro cost comparison for general service<sup>4</sup>

(medium loads) 2,500 kW for 1,170,000 kWh



**Manitoba's electricity rates for businesses are some of the lowest in North America<sup>4</sup>**

Manitoba Hydro and Efficiency Manitoba work together to offer incentive and rebate programs as well as technical advice to its customers. These efforts can help reduce operating costs for both small and large businesses.



## Distribution

### Customized to you

Each project's energy requirements may differ in type, size, scope, and location. If your business needs more than 2.5 MVA of power capacity and/or significant natural gas requirements, Manitoba Hydro can provide you with a dedicated advisor to help you connect into the grid to ensure safe and reliable power for your business.

## Efficiency Manitoba

### Saving energy and money

Efficiency Manitoba's mandate is to reduce energy consumption and greenhouse gas emissions across the province. Between 2020 and 2022, it will assume and lead all incentive and rebate programs, including programs previously run by Manitoba Hydro.



## Government tax credits

### The Green Energy Equipment Tax Credit

A tax credit up to 15 per cent on eligible capital costs for equipment for: geothermal heating, solar thermal heating, or biomass fuel energy

### Scientific Research & Experimental Development Credit

Up to 50 per cent reimbursement on eligible commercial R&D activities thanks to best-in-country provincial top-up credit

## Did you know?

Manitoba produces

**1.9 grams of greenhouse gas emissions**

per kilowatt-hour (CO<sub>2</sub>e/kWh) of electricity generated.<sup>10</sup>

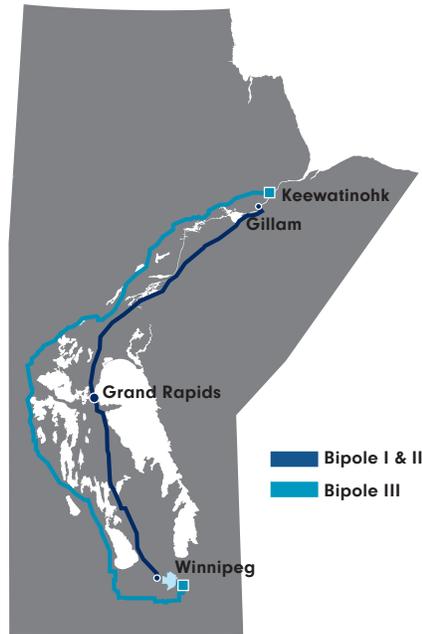
This is second lowest among Canadian provinces and is approximately 250 times lower than the worldwide average of 475 g CO<sub>2</sub>e/kWh.<sup>11</sup>

## Abundant & reliable energy

From its inception in 1926, Manitoba Hydro has consistently increased its generating capacity. It has recently undertaken two significant transmission line projects to strengthen power reliability across Manitoba.

### Bipole III

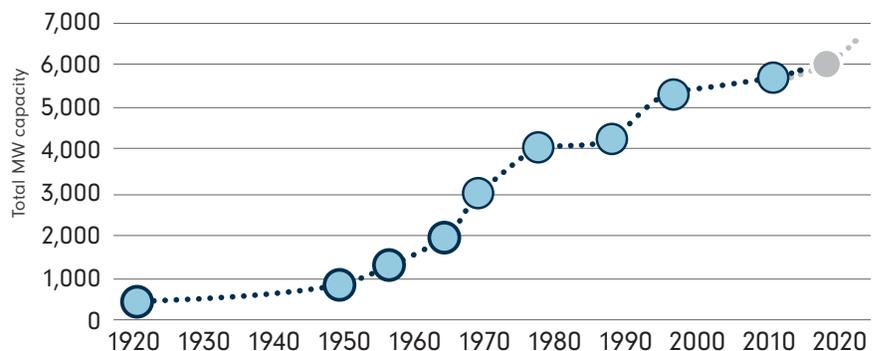
A new high-voltage direct current transmission line completed in 2018. Bipole III gives the utility capacity for an additional 2,000 megawatts of supply from its northern generating stations. It also provides a backup supply channel in the event of damage or issues with its other high-voltage transmission lines (Bipole I & II).<sup>9</sup>



### Manitoba-Minnesota Transmission Project

Manitoba Hydro has partnered in the construction of the Manitoba-Minnesota Transmission Project. The 500,000-volt power line ensures the reliability of its own supply with a transmission line that also allows back-and-forth flow of energy across borders.<sup>9</sup>

### Manitoba Hydro historical megawatt capacity<sup>5</sup>



#### Endnotes:

1. Canada's Renewable Power Landscape, National Energy Board, 2017
2. Who we are, Manitoba Hydro, 2019
3. Value of electricity exports, Manitoba Hydro, 2019
4. Comparison of Electricity Prices in Major North American Cities, Hydro Quebec, 2019
5. Generating stations, Manitoba Hydro, 2019
6. Keeyask Generating Station, Manitoba Hydro, 2019
7. Wind Energy in Manitoba, CanWEA, 2019
8. The Sunniest Cities in Canada, WorldAtlas, 2019
9. 68th Annual Report, Manitoba Hydro-Electric Board, 2019
10. National Inventory Report 1990-2017: Greenhouse Gas Sources and Sinks in Canada, Environment and Climate Change Canada, 2019
11. Global Energy & CO<sub>2</sub> Status Report, International Energy Agency, 2019

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