

State of Play

Tracking the **progress of building electrification** across Canada

2026 Edition
June 23, 2026



What's Inside?



About the State of Play

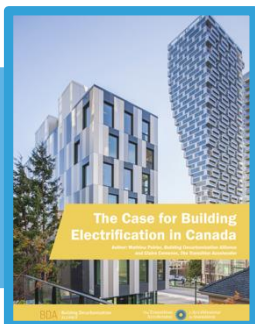
- **What it is:** an annual snapshot tracking the progress of building electrification across Canada.
- **Why now:** space and water heating are the largest levers for electrifying buildings, yet progress remains uneven across provinces.
- **What's inside:** where heat pump and electrification adoption stands today, where it is on and off track, and the opportunities to accelerate it.



Three reports, now in one

Previously published as three standalone reports, refreshed and combined here into one concise, updated picture

1



The Case for Building Electrification

Where adoption stands today across homes and commercial buildings.

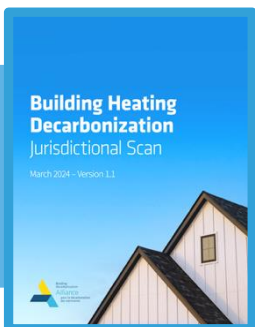
2



Pace of Progress

How fast electrification is advancing versus where it needs to be.

3



Jurisdictional Scan

Progress in different provinces and internationally.



A summary of where things stand on building electrification



1

Buildings dominate end-use electricity demand

- a. Buildings account for most of Canada's electricity demand
- b. Space and water heating are the biggest levers to electrify buildings
- c. Efficient electrification leads to savings for most Canadians

2

Residential heat pumps are gaining ground, but adoption is uneven and still off track in most provinces

- a. Canadians are adopting heat pumps, led by the Atlantic provinces
- b. Heat pumps can help address the rise in cooling demand
- c. Heat pumps outsell other household cooling and heating equipment
- d. Apartment renters are being left behind on heat pumps
- e. Technology adoption roughly follows an S-curve
- f. Residential heat pump adoption is still not on track in most provinces
- g. Homes with electric resistance are a major opportunity for heat pump conversion
- h. Heat pump adoption increases as the electricity to fuel cost ratio drops
- i. Residential electric water heater adoption is on track in most provinces
- j. Awareness of heat pumps is rising, and owners recommend them

3

Commercial electrification has room to grow

- a. Electrifying space heating in commercial buildings is largely not on track
- b. Electrifying water heating in commercial buildings is not on track

4

What is happening elsewhere?

- a. Notable progress is encouraging building electrification around the world



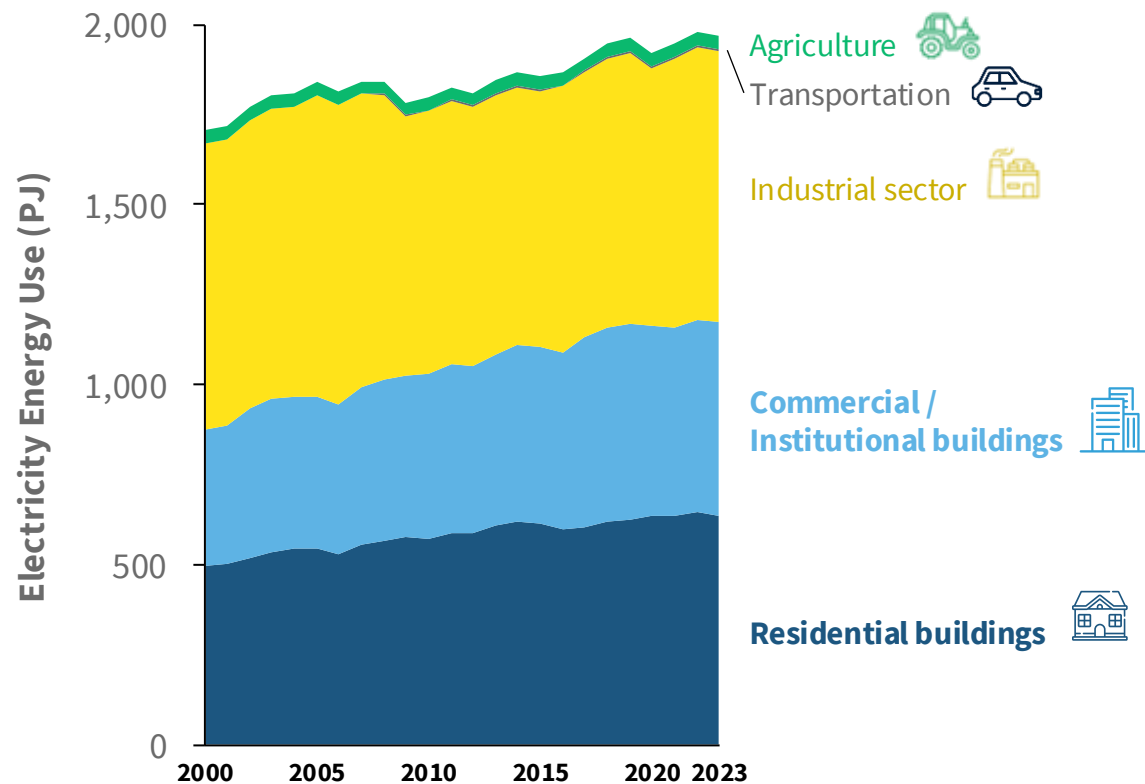
**Buildings dominate
end-use electricity
demand**

1.a. Buildings account for most of Canada's electricity demand

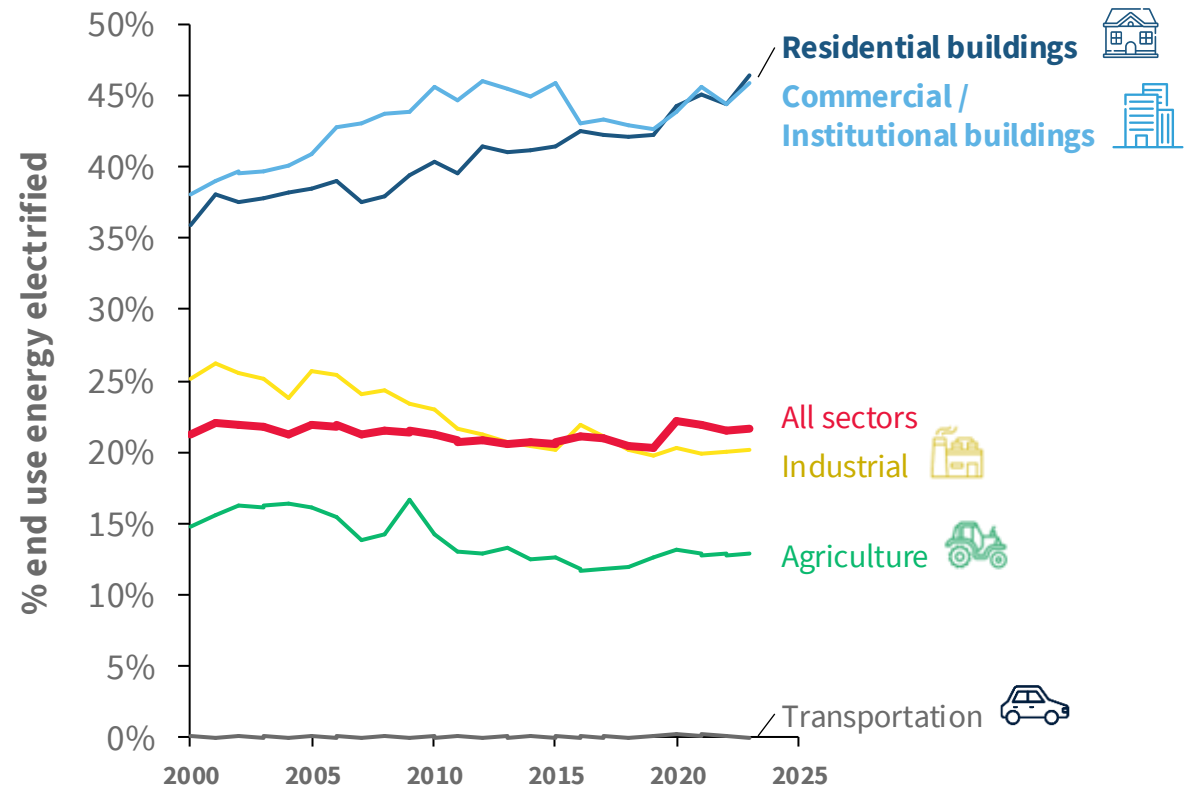


The majority of Canada's end-use electricity demand comes from the building sector, and this will only increase as buildings electrify.

Commercial and residential buildings account for 60% of Canada's overall electricity demand



And there is still opportunity for that demand to grow

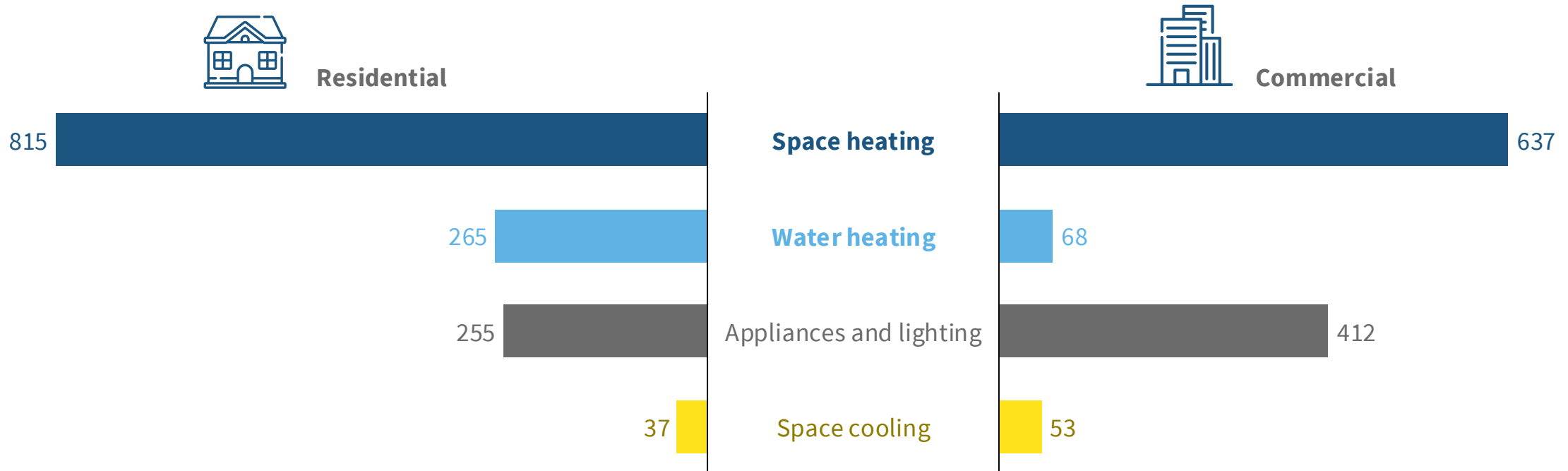


1.b. Space and water heating are the biggest levers to electrify buildings



Space and water heating dominate building energy use, making them the highest leverage areas to help build the foundation of an electrified economy.

Space and water heating respectively account for 57% and 13% of total Canadian building energy use (PJ)



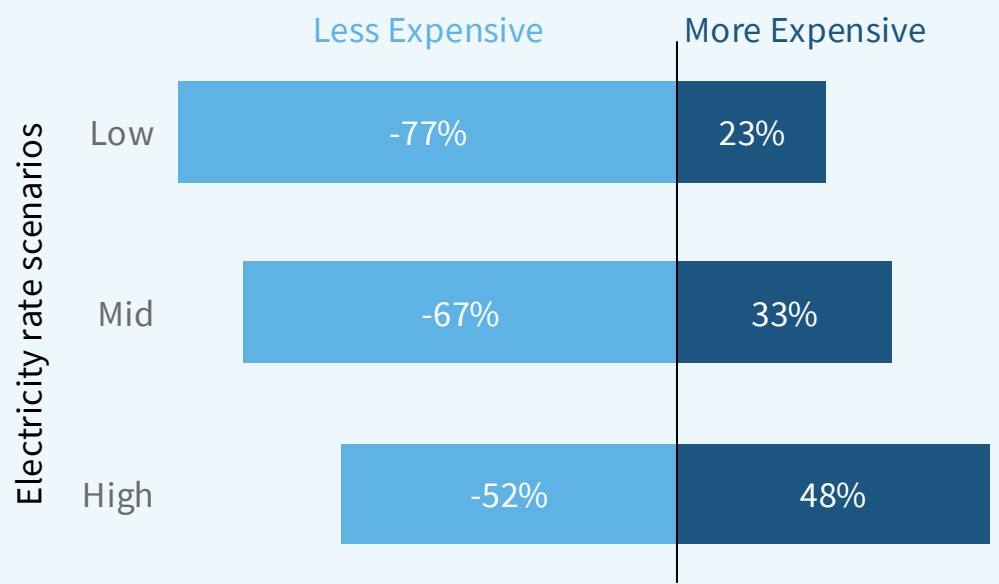
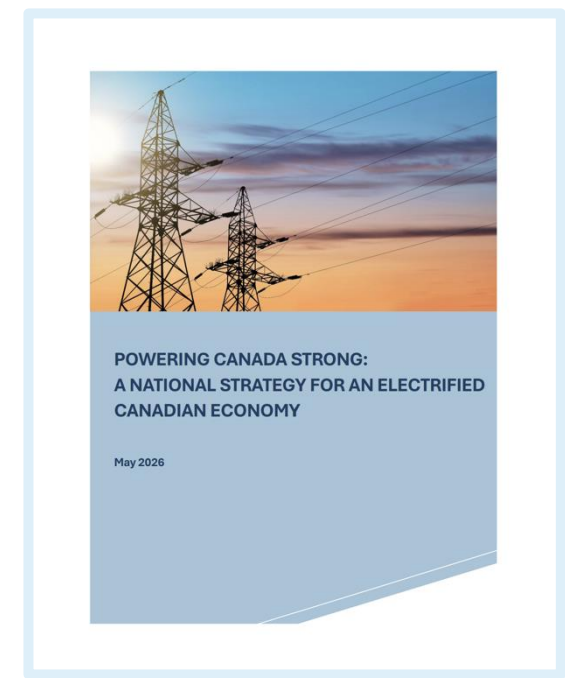
1.c. Efficient electrification leads to savings for most Canadians



Done right, **electrification could save Canadians \$15 billion in energy costs**, with **7 out of 10 Canadian households paying less by 2050**, but only if demand and the grid grow at the same pace.

Powering Canada Strong, the national electricity strategy, sets a goal of doubling Canada’s electricity supply by 2050.

Electrification can lead to savings for most households by 2050

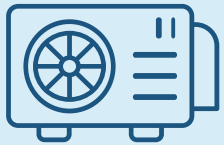


Households with more expensive energy wallets tend to be: ones that do not own a personal vehicle, which are disproportionately low-income, and ones that currently heat their homes with natural gas and reside in regions with high 2050 electricity rates.



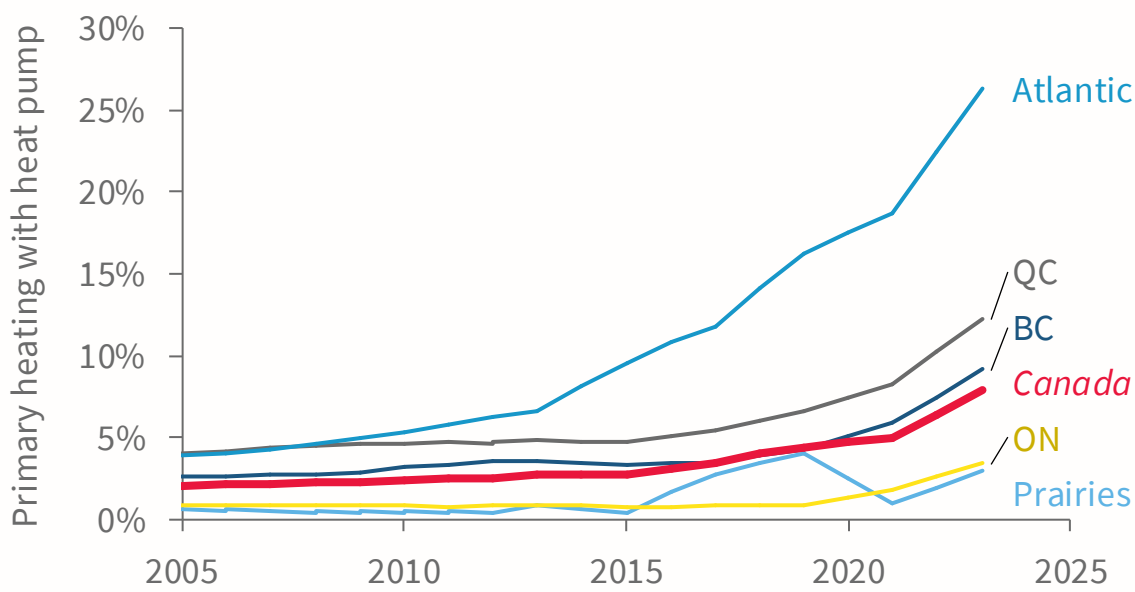
Residential heat pumps are gaining ground, but adoption is uneven and still off track in most provinces

2.a. Canadians are adopting heat pumps, led by the Atlantic provinces

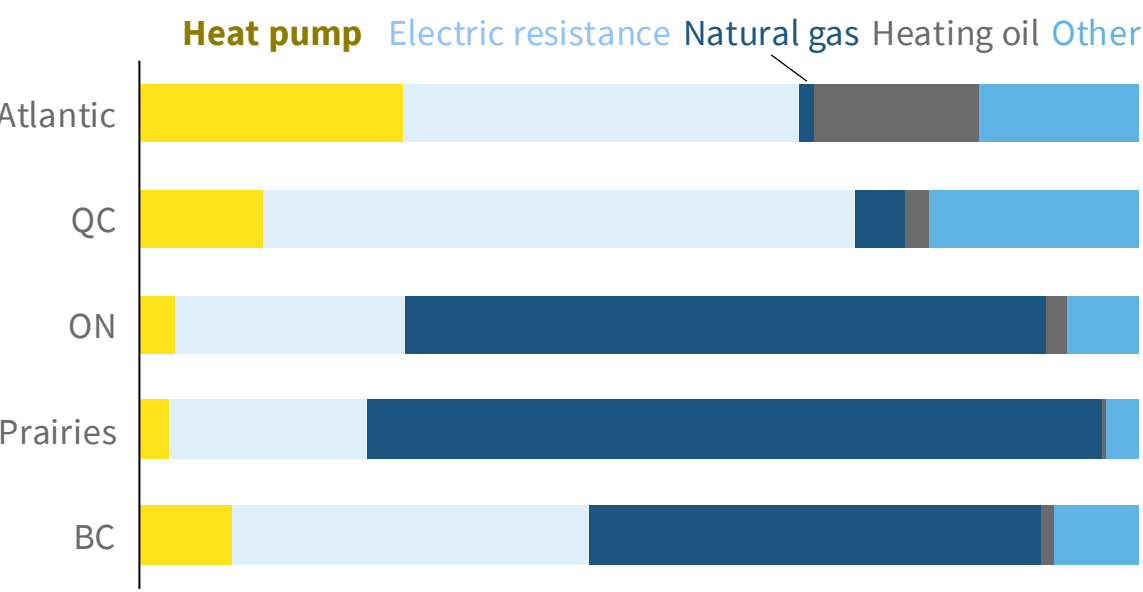


By 2023, nearly **8% of Canadian homes used heat pumps** as their primary heating source, with the Atlantic provinces leading the way

Heat pumps increased as primary heating source

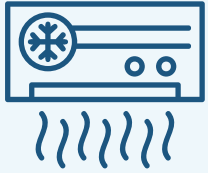


Atlantic region has greatest proportion of heat pumps



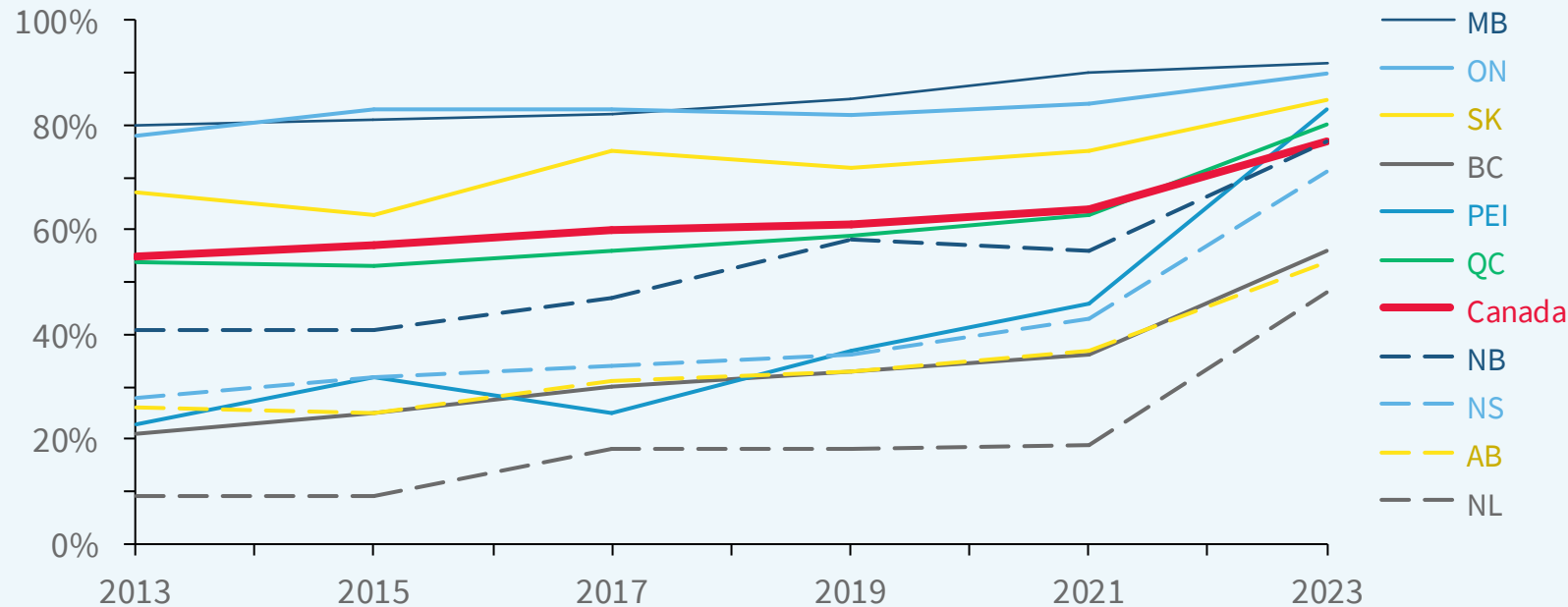
Source: [Comprehensive energy use database](#) 2023 data
Notes: Other includes wood, propane, and dual fuel heating systems. How respondents classify the primary system in dual-fuel homes can significantly affect the results and lead to volatility, especially in the

2.b. Heat pumps can help address the rise in cooling demand



At the same time, nearly **4 out of 5 Canadians have access to air conditioning**, but this varies significantly by province

Air conditioning adoption is rising across Canada



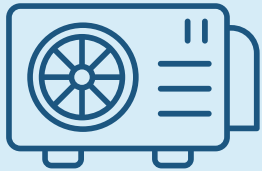
Demand for cooling supports heat pump adoption

[Clean Energy Canada's survey](#) shows cooling is a significant motivating factor for heat pump purchases:

- **30%** replaced an old central air conditioning system or added cooling for the first time.
- **44%** replaced or supplemented fossil heating, gaining cooling in the process.

Every new cooling purchase is a chance to install a heat pump instead of an air conditioner, one of the best opportunities to grow heat pump adoption.

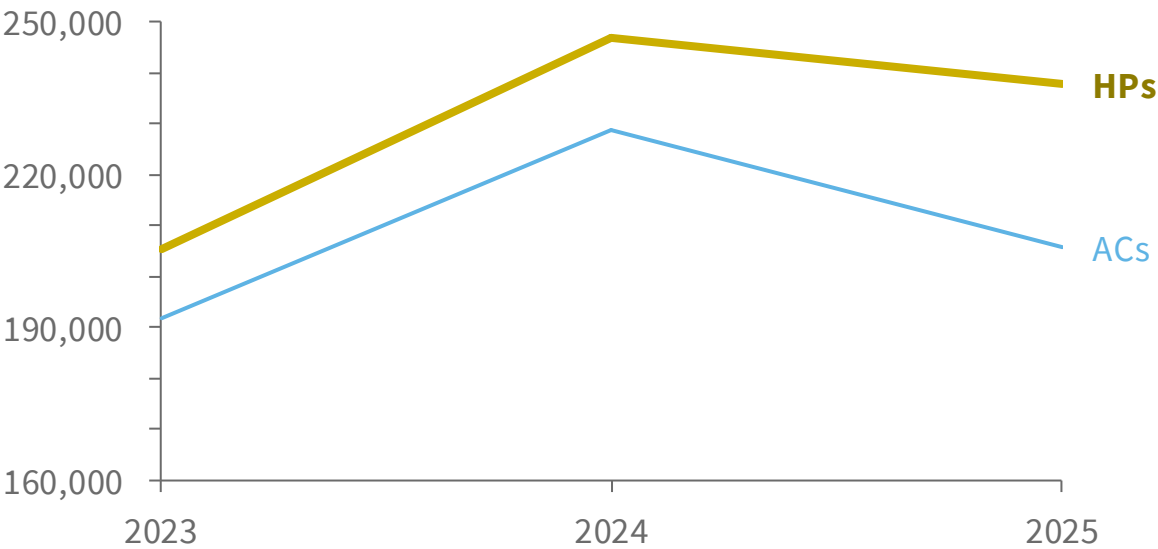
2.c. Heat pumps outsell other household cooling and heating equipment



Residential **heat pumps (HPs)** outsell **air conditioners (ACs)** across Canada and outsell gas furnaces in BC

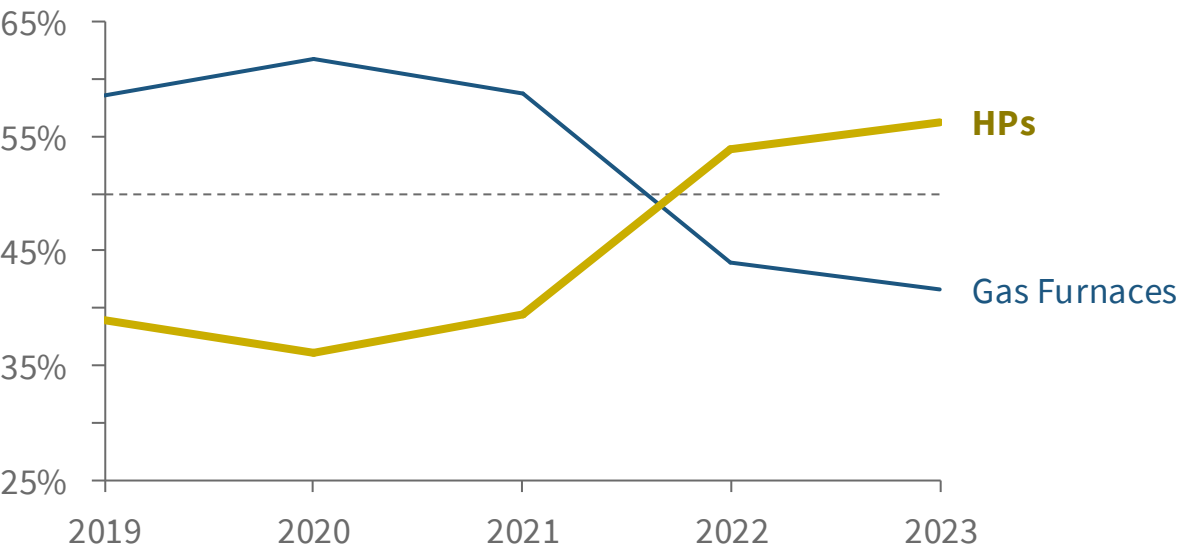
HP shipments outnumber AC shipments across Canada

Equipment shipments



BC HP imports exceeded those of gas furnaces

% of imports



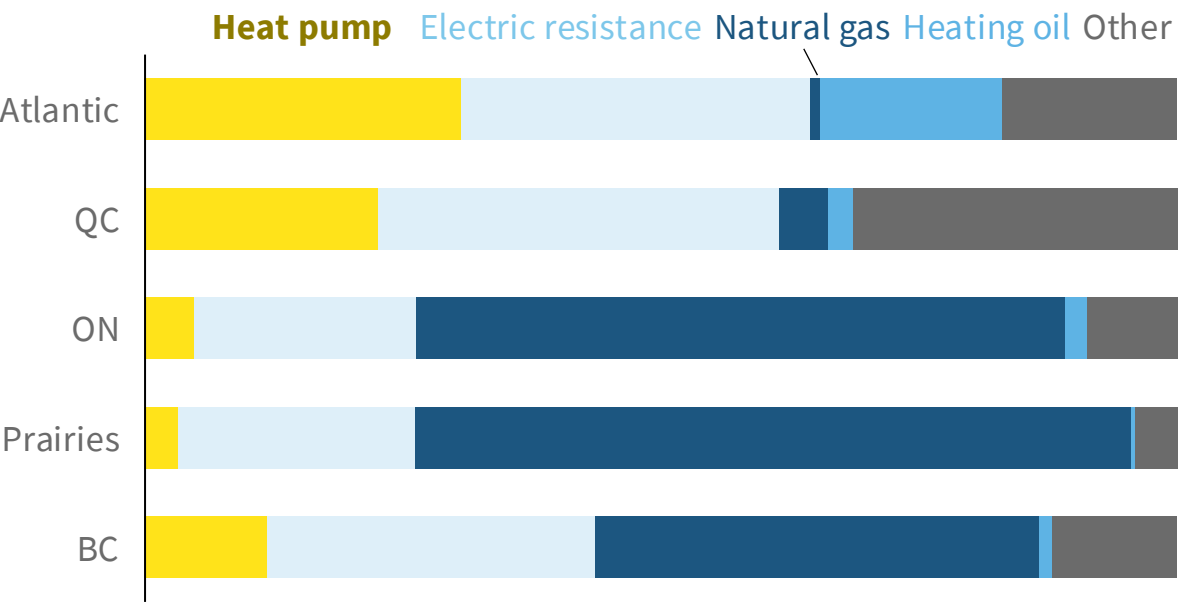
Sources: Canadian shipments from HRAI (1, 2, and assumes *Ductless Split Systems* are 90% HPs and 10% ACs)
BC import data extracted from Gov of BC [Powering our Future: BC's Clean Energy Strategy](#). The HP-vs-furnace comparison is shown for BC only, the only province to publish furnace data.
Notes: We use shipments and imports as proxies for equipment sales. HP stats include minisplits, even though one home may need multiple units to replace a single furnace.

2.d. Apartment renters are being left behind on heat pumps

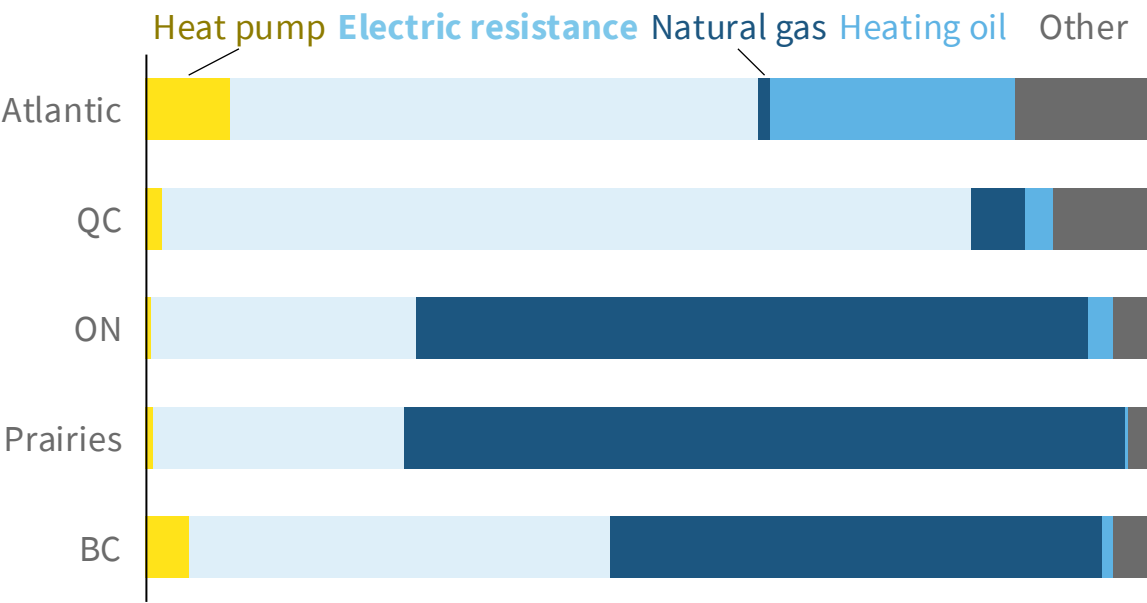


While **single family homes** are increasing their heat pump adoption, apartment buildings continue to rely on electric resistance heating — locking renters into higher-cost heating as landlords delay retrofits.

Heat pumps are becoming common in **single family homes**



Electric resistance is common in **apartment buildings**



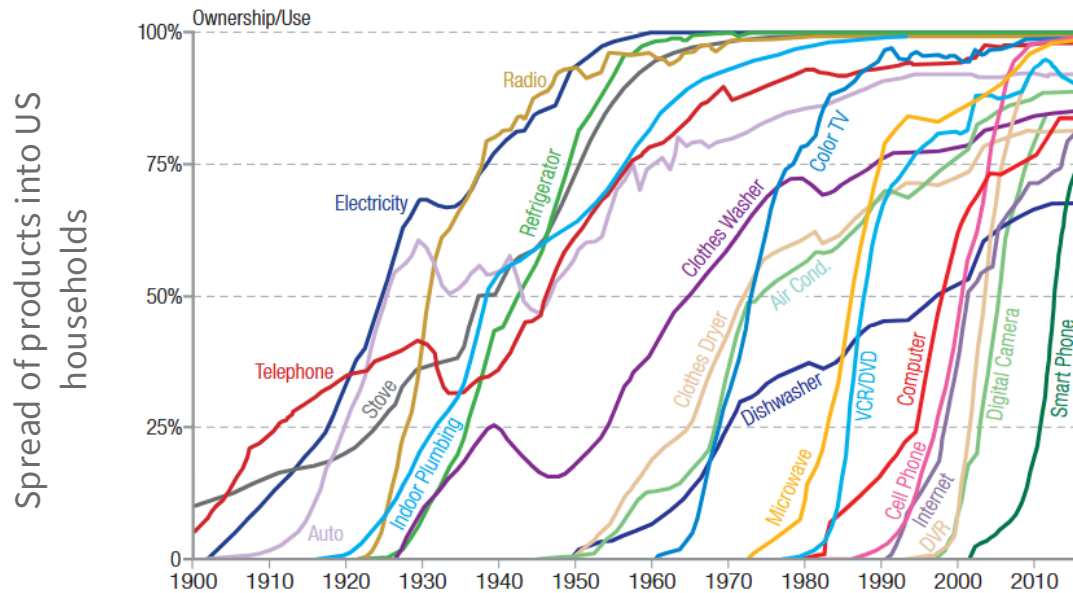
[Comprehensive energy use database](#), 2023 data.
Other includes wood, propane, and dual fuel heating systems.

2.e. Technology adoption roughly follows an S-curve

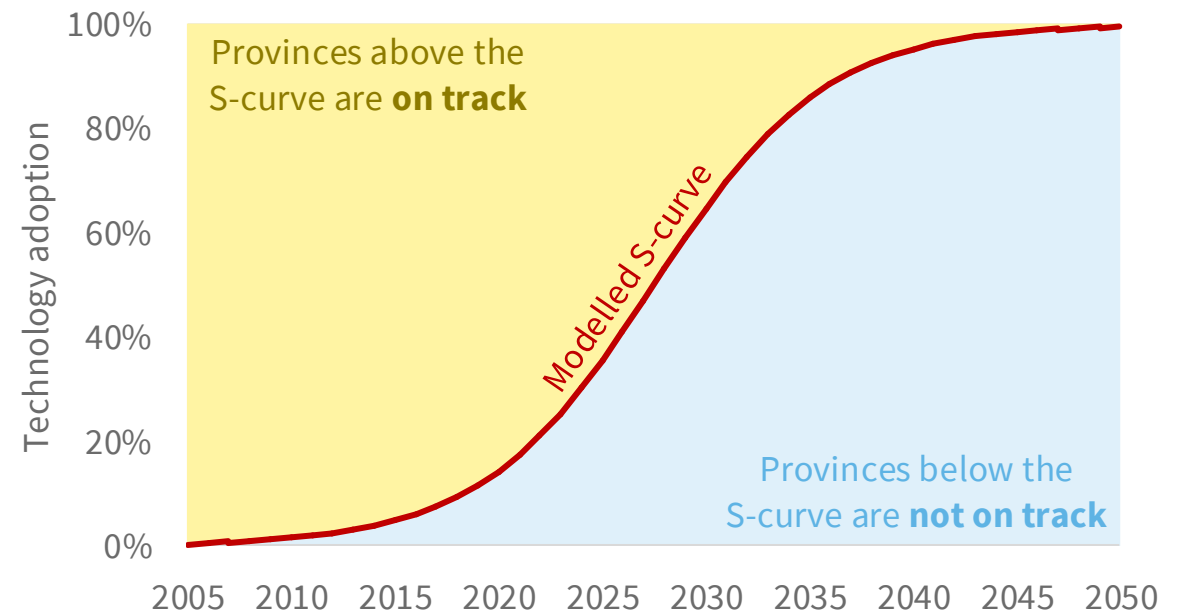


We can **see where adoption levels are today relative to where they should be** to achieve 100% heat pump adoption in 2050

Historical technology adoptions have followed S-curves



Comparing adoption to an S-curve helps show progress



Source: [Cox and Alm \(2016\). Onward and Upward.](#)

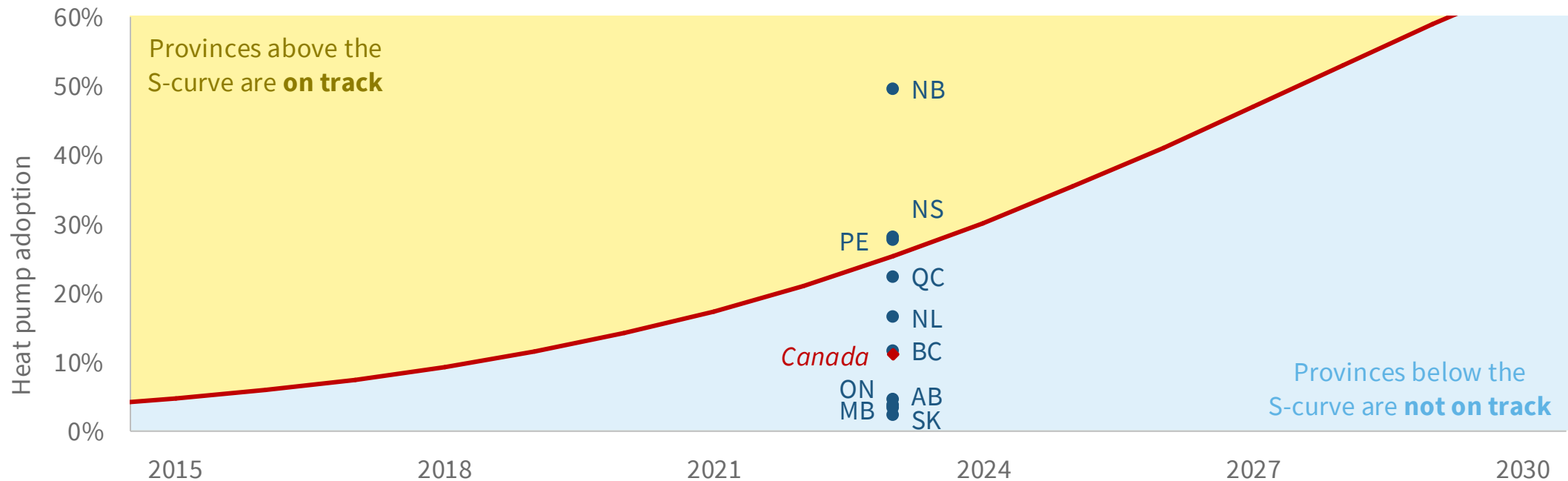
We've assumed the S-curve (red-line) goes from near-zero penetration in 2005 to 100% adoption by 2050

2.f. Residential heat pump adoption is still not on track in most provinces

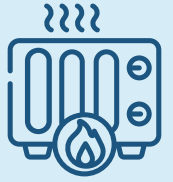


Heat pump adoption in single family homes is **only on track in the Maritimes**

Provinces are at different places on the S-curve for heating system stock

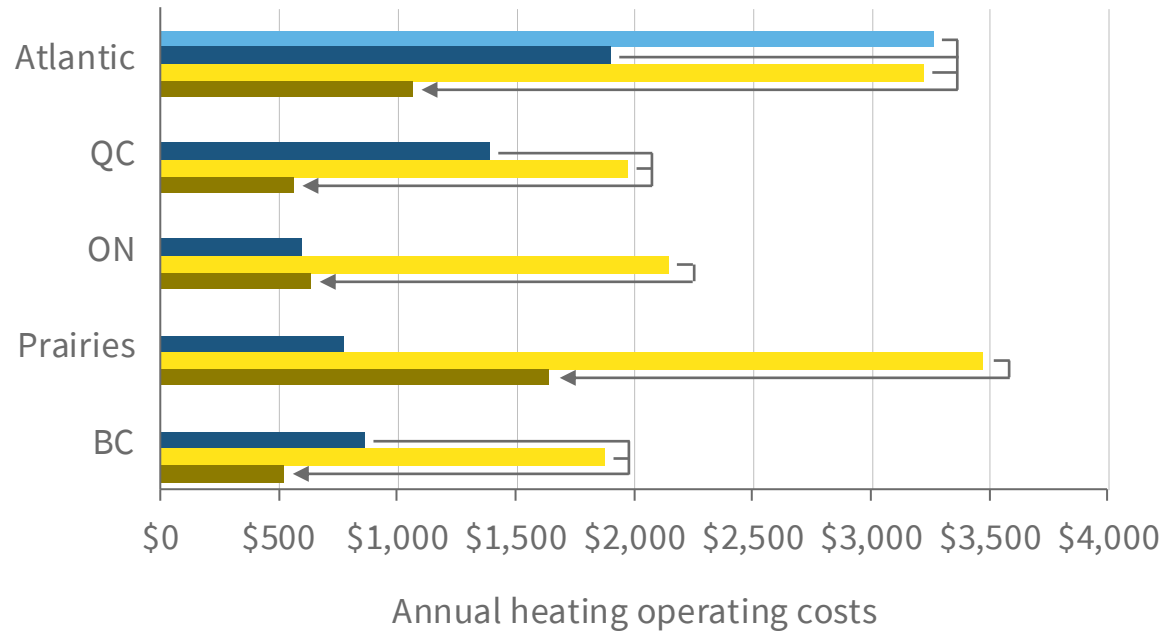


2.g. Homes with electric resistance are a major opportunity for heat pump conversion

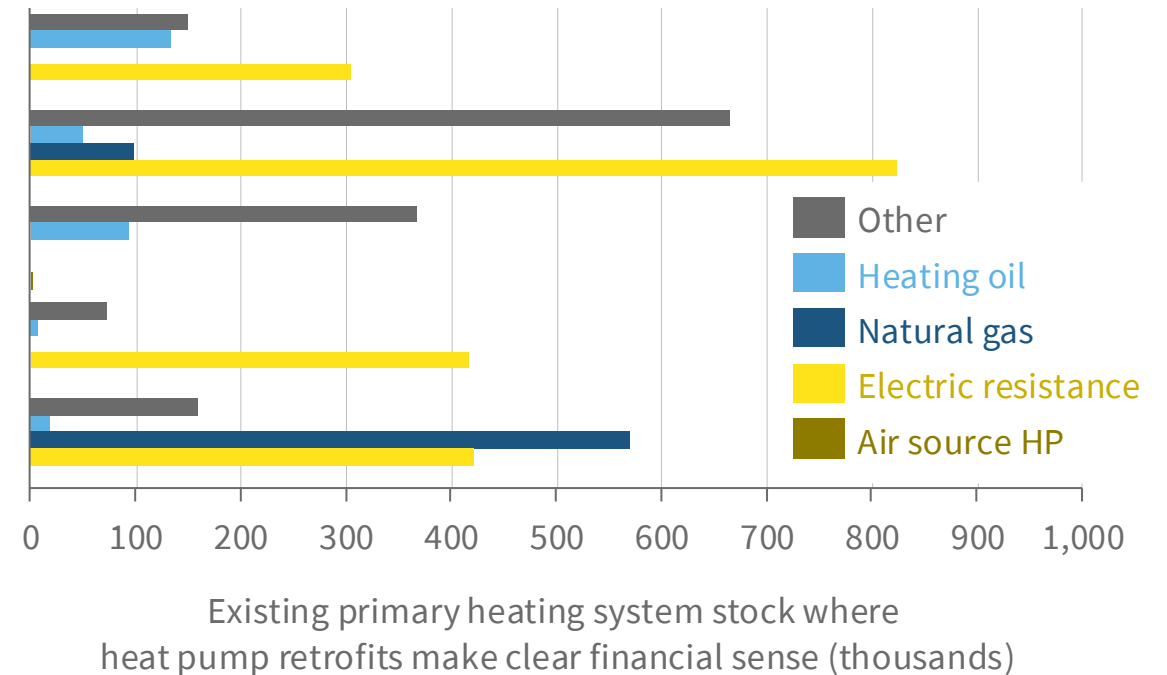


Many homes currently heated with electric resistance, propane, or heating oil can **significantly cut their heating bills** by switching to heat pumps

Heat pumps can significantly cut heating costs

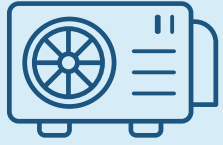


Heat pumps make clear financial sense in more than 3 million Canadian homes



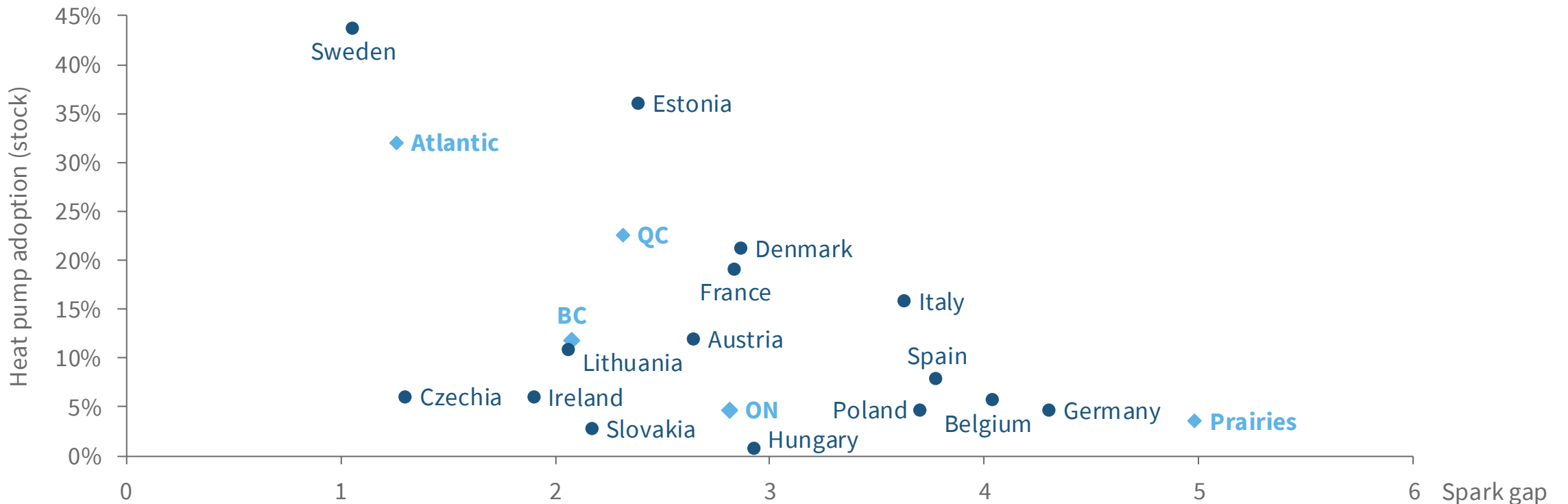
Sources: [Comprehensive energy use database](#), 2023 data. [BDA's Demand-Side Pathways Model](#) using Jan 2026 utility rates for the largest city in each province and includes all variable fees but no fixed fees. For Atlantic Canada, heating oil was modeled in NL, PE; natural gas was applied in NB, NS. Heating with propane is also expensive, see <https://www.globalpetrolprices.com/>. Other includes wood, propane, and dual fuel heating systems.

2.h. Heat pump adoption increases as the electricity to fuel cost ratio drops



Heat pump **adoption is highest** in regions with low electricity to fuel cost ratios (often referred to as the spark gap)

Heat pump adoption is higher when the electricity to fuel cost ratio is lower



Sources: [Comprehensive energy use database](#) 2023 data for provinces, using January 2022 utility rates per province, [European Heat Pump Market and Statistics Report 2024](#) and [Eurostat](#) for European countries.

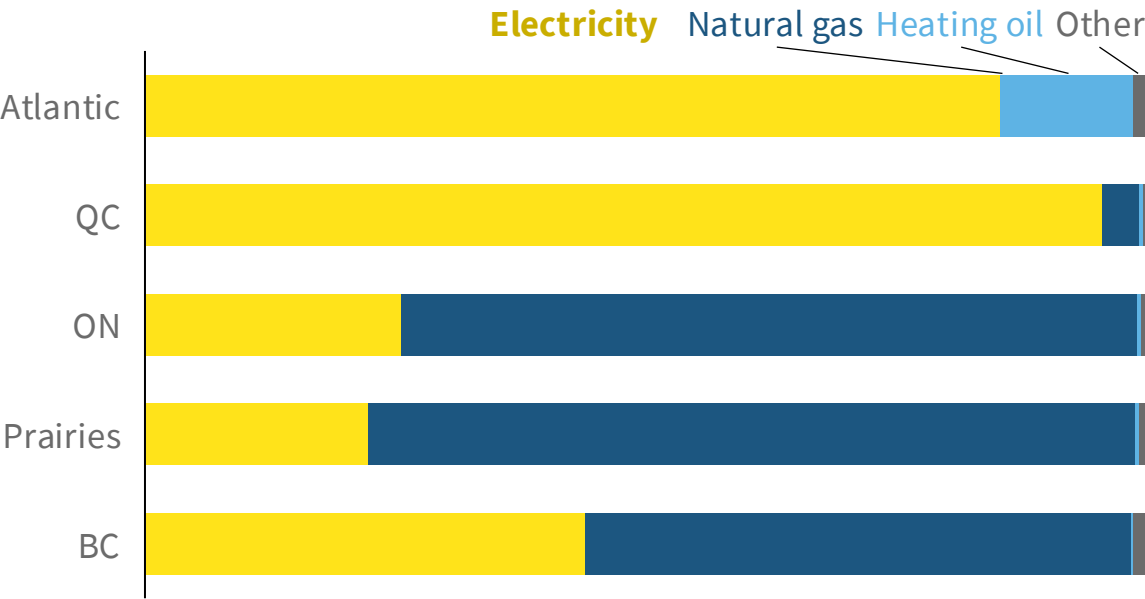
Note: Heat pump adoption is not displacing gas in the Atlantic Canada, as it's moving away from heating oil, or in Québec, aiming to reduce peak demand.

2.i. Residential electric water heater adoption is on track in most provinces

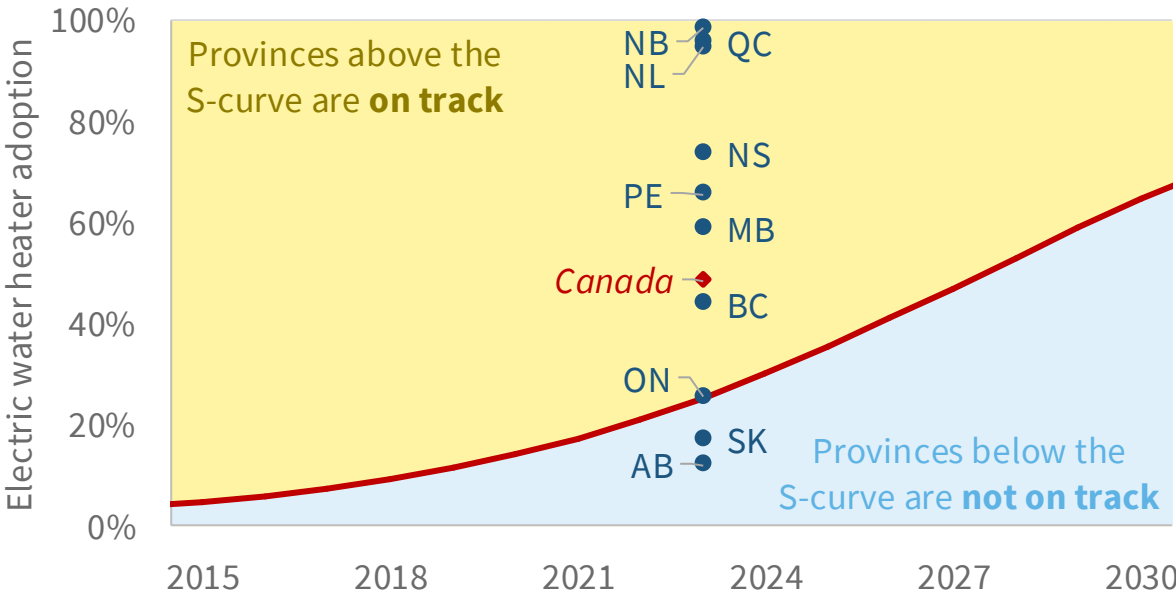


Water heating electrification is largely on track, with the Atlantic and Quebec showing significant adoption. While Heat pump water heaters are more efficient, there is no publicly available data on their adoption.

Electric water heaters are common in all regions



Electrification of water heaters is on track in most provinces



Source: [Comprehensive energy use database](#) 2023 data
Note: Progress assumes S-curve starts in 2005 with 0% adoption and ends in 2050 with 100% adoption

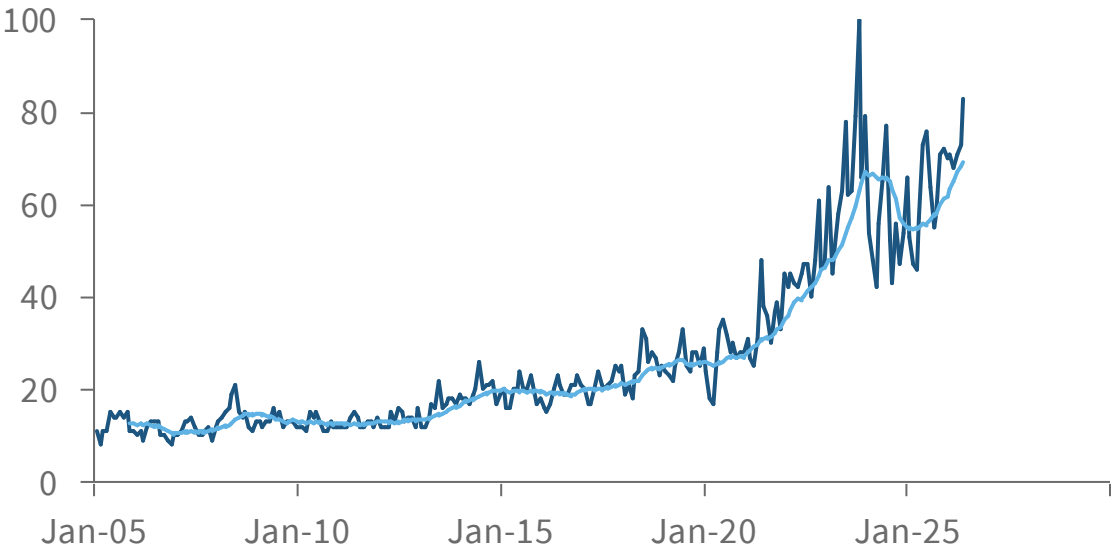
2.j. Awareness of heat pumps is rising and owners recommend them



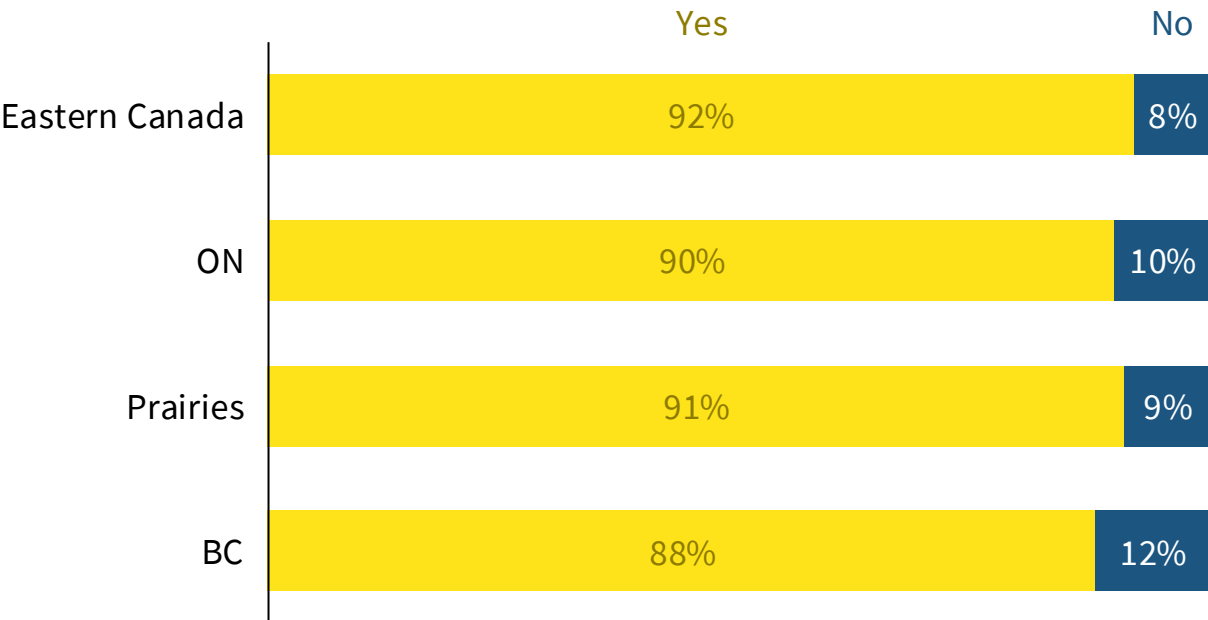
Demand signals are building; searches for heat pumps are near all-time highs and owners are happy to recommend them to friends and neighbours

Google web searches for heat pumps have increased

Peak interest = 100



Heat pump owners would recommend a heat pump to a friend or neighbour



Sources: [Google trends](#) search of “heat pump” in Canada between Jan 1, 2005 and Jun 3, 2026.
[Clean Energy Canada and Summerhill Group](#) survey of 3,797 Canadians Nov 1 2025 to Feb 16, 2025.

An aerial photograph of a dense urban skyline, likely New York City, viewed from a high angle. The image is partially obscured by a large, solid blue triangle that points towards the top left corner. The text "Commercial electrification has room to grow" is written in white, bold, sans-serif font on the right side of the blue triangle.

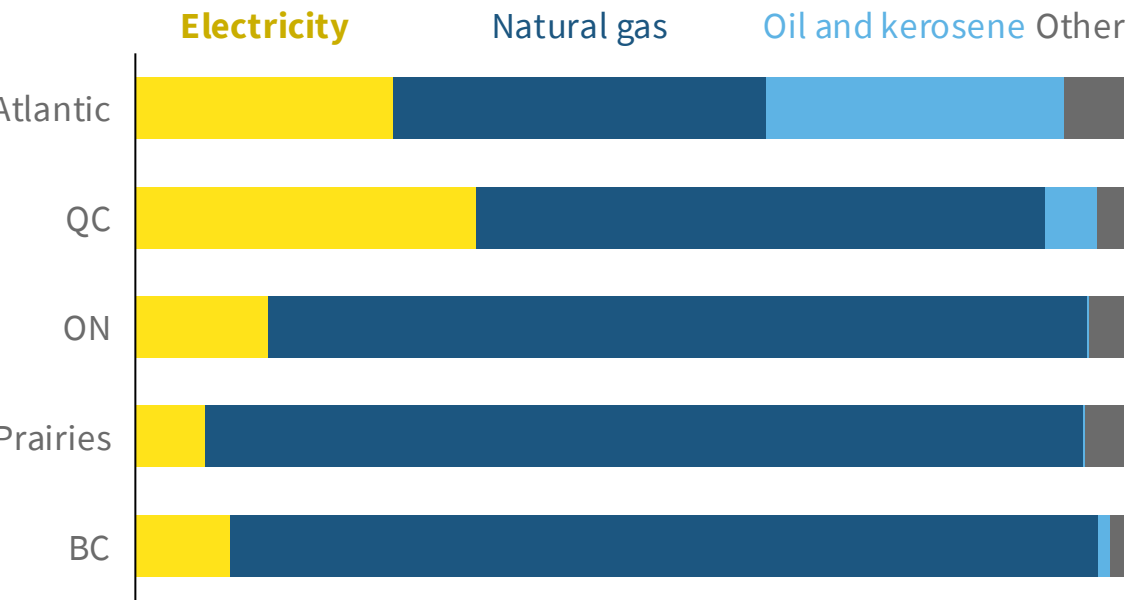
**Commercial
electrification
has room to grow**

3.a. Electrifying space heating in commercial buildings is largely not on track

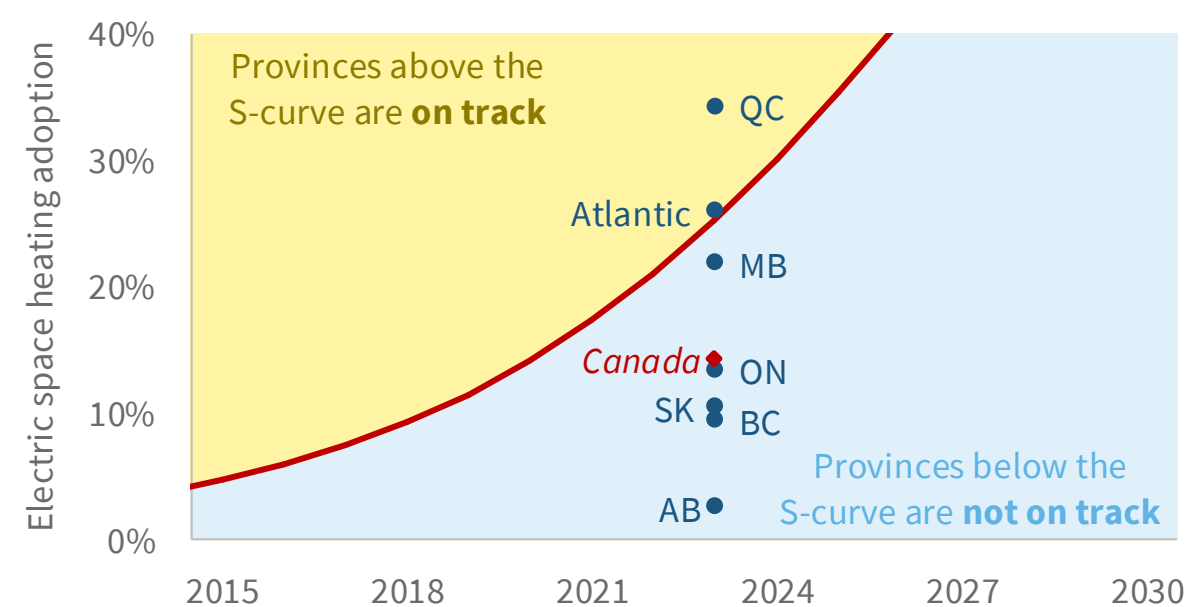


Commercial space heating electrification is **highest in Quebec and the Atlantic** but progressing slowly overall. There is a lack of publicly available data on commercial space heating heat pump adoption and equipment sales.

Electric space heating is highest in Quebec and the Atlantic



Electrification of commercial space heating is not on track



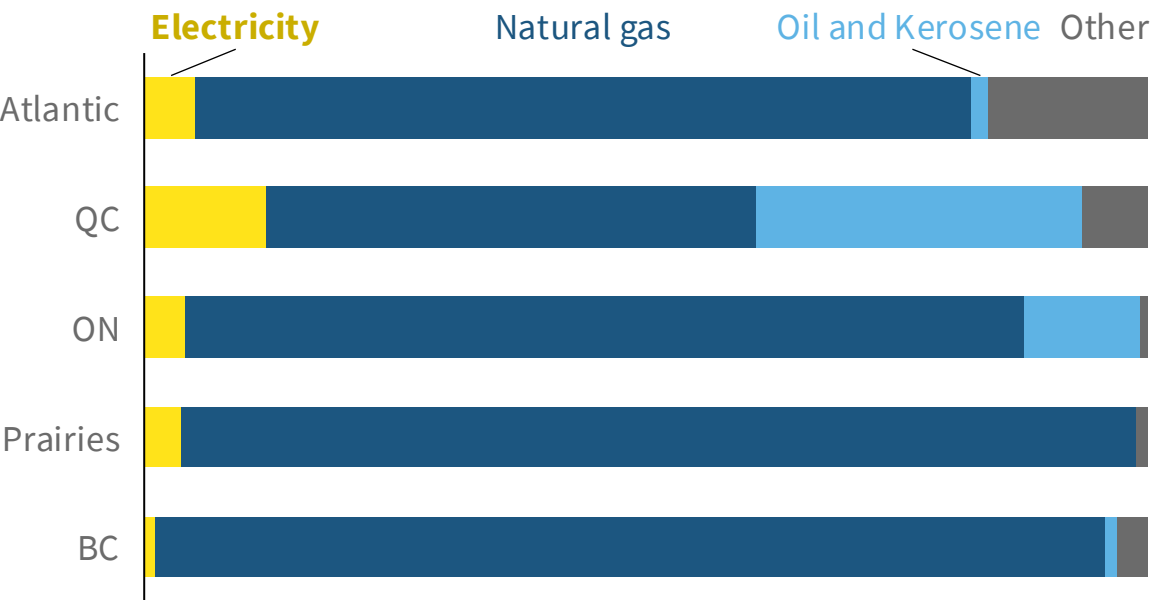
Sources: [Comprehensive energy use database](#) 2023 data
Notes: Progress assumes S-curve starts in 2005 with 0% adoption and ends in 2050 with 100% adoption

3.b. Electrifying water heating in commercial buildings is not on track

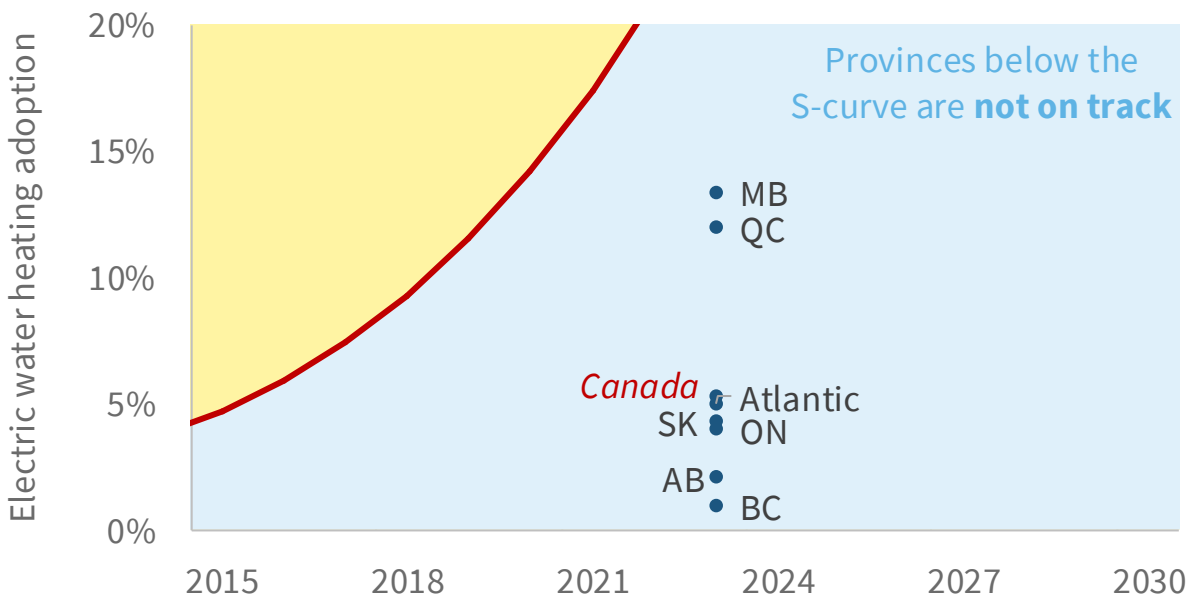


Commercial water heating electrification is **low across the country**. There is a lack of publicly available data for commercial water heater heat pump adoption and sales

Electric water heating is uncommon in most regions



No region is on track to electrify commercial water heating



Sources: [Comprehensive energy use database](#) 2023 data
Notes: Progress assumes S-curve starts in 2005 with 0% adoption and ends in 2050 with 100% adoption



What is happening elsewhere?

4.a. Notable progress is encouraging building electrification around the world



Supportive policies, clear targets, and evolving market trends continue to accelerate heat pump adoption.



The [IEA World Energy Outlook 2025](#) reports global heat pump sales grew 27% from 2020 to 2024 and could meet nearly 40% of space heating demand in key regions by 2035.



Canada's 2026 [National Strategy for an Electrified Economy](#) notes continued support for building electrification, including energy-saving retrofits for up to one million households (e.g., enabling households to electrify home heating by transitioning from propane, oil, or electric resistance).



At least 17 US utilities now offer [heat pump-specific rates](#), and 12 US States are working [to end rules that charge existing gas customers for the cost of gas pipeline expansion](#).

4.a. Notable progress is encouraging building electrification around the world



Supportive policies, clear targets, and evolving market trends continue to accelerate heat pump adoption.



A new ordinance in Berkeley, California [requires home sellers and buyers to replace fossil-fuel appliances or make green upgrades](#) at point of sale.



UK's Clean Heat Market Mechanism has introduced [heat pump sales targets](#), requiring UK boiler manufacturers to ensure 6% of sales are heat pumps or face financial penalties.



France [announced new heat pump grants](#) for low-income households to accelerate electrification and energy independence, and a [ban on gas boilers in new buildings](#), starting in 2027.

See our [Jurisdictional Progress on Building Heating Decarbonization 2025](#) update for further insights.

About the Building Decarbonization Alliance

Canada's competitive future depends on abundant, affordable, and secure clean electricity. As Canada's voice for building electrification, the Building Decarbonization Alliance (BDA) positions buildings at the foundation of our electrified economy, where heat pumps, smart controls, solar, storage, and EV chargers become flexible grid resources for a stronger energy system.

An initiative of the Transition Accelerator, the BDA is a non-partisan, cross-sector coalition working to advance smart electrification as a driver of productivity, energy security, and competitive advantage. Together with more than 350 partners across the building ecosystem, we inspire and inform industry and government leadership, and accelerate market transformation — modernizing Canada's buildings into engines of prosperity.

If you are interested in supporting our work, visit our [website](https://www.buildingdecarbonization.ca) or reach out to us at info@buildingdecarbonization.ca to find out how you can help accelerate building electrification.

