HOMES

are a significant source of carbon pollution

in Edmonton



single family/ duplexes

217,500 units

2 million tonnes CO₂e/year¹



low-rise MURB* (<4 storeys)

138,000 units

1.1 million tonnes CO₂e/year¹



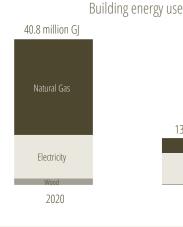
mid-/high-rise MURB*

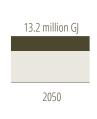
23,500 units

200,000 tonnes CO₂e/year¹

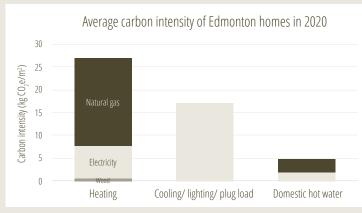
*multi-unit residential buildings

Edmonton aims to cut residential energy use in half and be carbon neutral by 2050.2 We need to retrofit our homes to be better insulated and more air-tight, and use more efficient heating systems, like electric heat pumps.

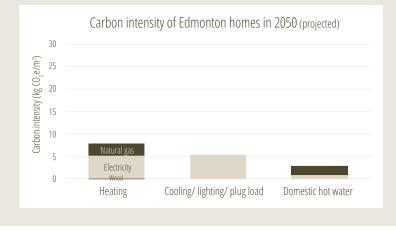




When we use electricity — which mostly comes from coal and gas plants in Alberta — and burn natural gas in furnaces and boilers for heating, our homes emit carbon pollution:



Retrofitting our homes now will help reduce emissions in 2050³



To be carbon neutral by 2050, we need to increase grid and on-site renewables and retrofit more than 3% of existing homes every year from now through 2050







These energy upgrades will require an annual investment of about \$320 million4



and result in over **3,000** jobs/year⁵





- 1. Based on a grid intensity factor of 0.704 g/kWh. City of Edmonton, Greenhouse Gas Management Plan, $74. www.edmonton. ca/city_government/documents/PDF/GHGManagementPlan-CityOperations. PDF. and the properties of the pr$ Housing data provided by Sustainability Solutions Group. www.ssg.coop/
- 2. Getting to City of Edmonton, Getting to 1.5°C: A Discussion Paper (2019). www.edmonton.ca/city_ government/documents/PDF/GettingTo1-5DiscussionPaper.PDF
- 4. 2020 dollars, assuming an average incremental cost of \$30,000 for single-family and mobile homes and \$16,000 for multi-family residential units. Ralph Torrie and Céline Bak, "Building Back Better with a green renovation wave," Corporate Knights, April 22, 2020. www.corporateknights.com/channels/built-

3. Grid intensity factor projected to decrease to 0.343 g/kWh under current AESO policies and programs.

environment/recovering-stronger-building-low-carbon-future-green-renovation-wave-15875463/ 5. An estimated 9.5 direct, indirect and induced full time job years are generated for every million dollars spent. Based on Dunsky (2018). The Economic Impact of Improved Energy Efficiency in Canada. (Efficiency Canada) Efficiency Canada (2020). Written Submission for the Pre-Budget Consultations in Advance of the Upcoming Federal Budget.

Reducing carbon pollution starts at home

