

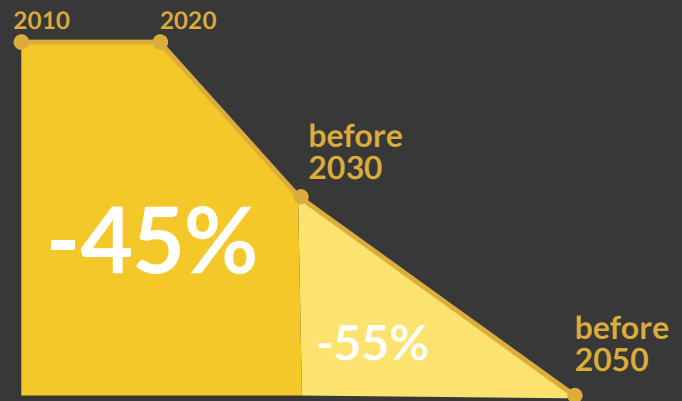
THE NORTHERN BUILDING RETROFIT ECONOMY

BENEFITS FOR COMPANIES, HOMEOWNERS & GOVERNMENT

REDUCING GREENHOUSE GAS EMISSIONS IN THE BUILDING SECTOR IN THE NORTHWEST TERRITORIES

PRELIMINARY STUDY FOR HIGH-LEVEL OVERVIEW ONLY.
FULL STUDY TO BE PUBLISHED APRIL 15, 2019

CLIMATE STABILITY TARGETS¹



JOB CREATION

400 JOBS
per year for 10 years

200 jobs in the Yellowknife area and an average of 6 jobs for each of the other communities.



ADDITIONAL TAX REVENUES IN THE GNWT

\$5M
per year

Tax revenues boosted by added employment and worker spending, construction and transportation company investment and income, and homeowner fuel savings that are spent on the local economy.

THE COST OF CLIMATE CHANGE



NWT is warming 4-5 times faster than global averages. Permafrost is thawing, damaging buildings and infrastructure. Shrinking sea ice and coastal erosion are impacting species, ecosystems and Indigenous cultures.

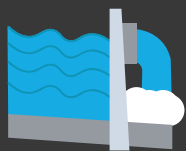
ENERGY SAVINGS



81k barrels
or 13M L per year



\$86M
per year

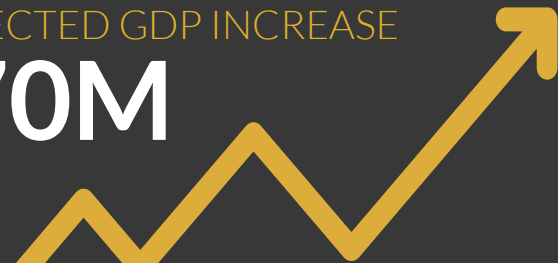


Equals to the whole Snare hydro system running at full capacity for more than a year

Energy savings more than cover the costs of retrofit investments. Up-front costs can be financed by banks or government using PACE, LIC, or similar financing systems.

PROJECTED GDP INCREASE

\$70M
per year



GOAL

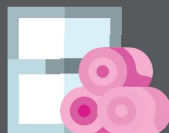
**100% ELECTRIC GRID
DECARBONIZATION BEFORE 2030**

ANNUAL SAVINGS² FOR THE AVERAGE NWT HOMEOWNER



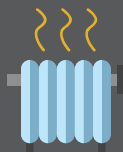
renewable energy
solar and wind

\$2,500
per household



deep retrofits
window and wall insulation

\$1,400
per household



fuel switching
biomass and electric heats pumps

\$1,200
per household



standard retrofit
LEDs, thermostats, attic insulation

\$600
per household

ROI 6%

per year (payback of 16 years)

Based on initial investment of \$125k for an average household (1,671 ft²).

Energy savings more than cover the cost of retrofit investments of \$147M/year

¹ Intergovernmental Panel on Climate Change, Global warming of 1.5°C.

² Combining multiple activities at a household affects both the cost and savings for that household. Values cannot be added together as shown.