

THE SWITCH PROGRAM'S GREENHOUSE GAS REDUCTIONS



WHAT IS A GREENHOUSE GAS?

Let's start with the basics.

Greenhouse Gases (GHGs) are gases that reflect infrared radiation. When the radiation from the sun bounces off the Earth and back toward space, these GHGs reflect them back to Earth. This causes the heat to get trapped in the atmosphere.

GHGs are measured in tonnes of carbon dioxide equivalence (**Co2e**).

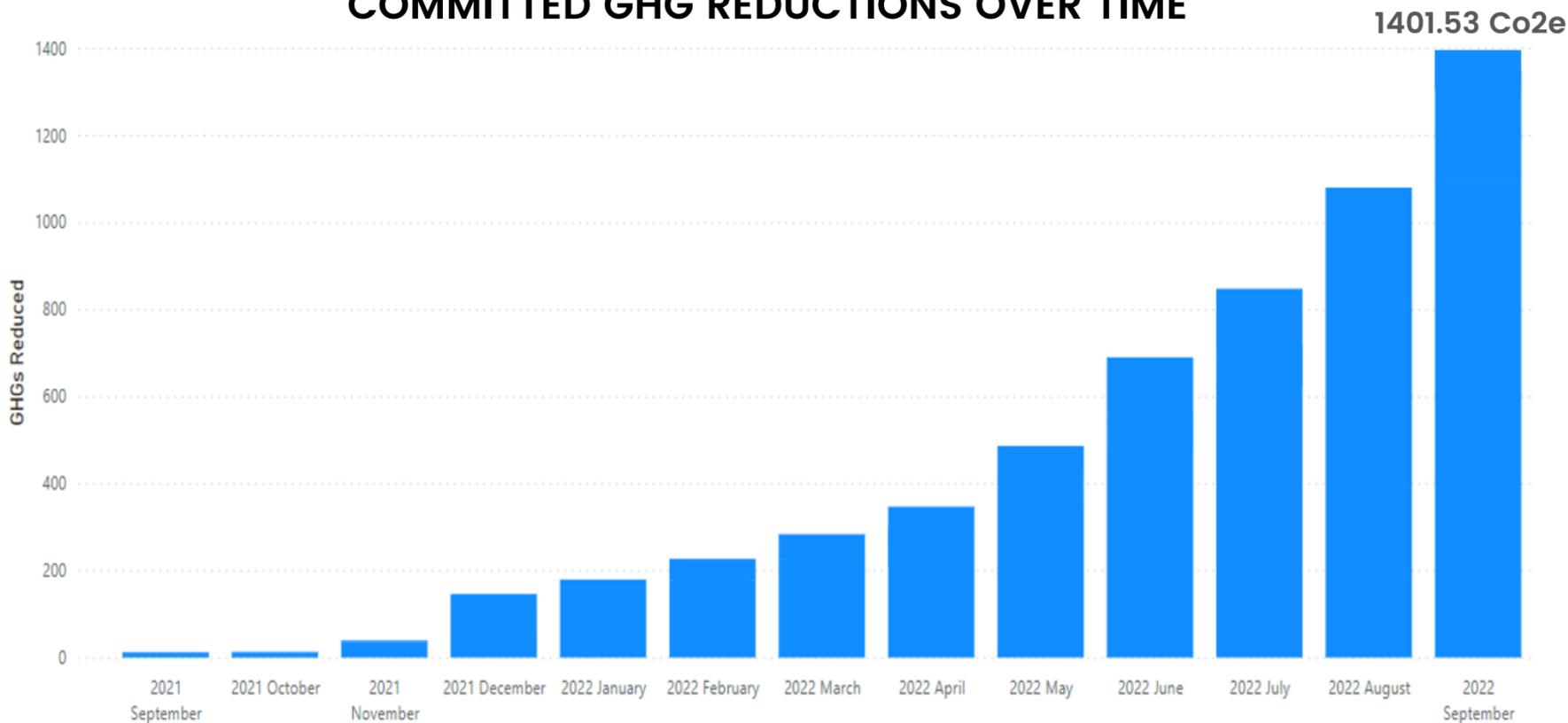
-  The average house emits **13 tonnes of Co2e** per year.
-  The average car emits **4.5 tonnes of CO2e** per year.



GHG REDUCTIONS WITH SWITCH

On average, each Switch project participant sees an annual GHG reduction of **2.9 tonnes of CO₂e** and saves **40.75 GJ** in energy annually.

COMMITTED GHG REDUCTIONS OVER TIME



In total, our 490 ongoing projects are committed to reducing **1400 tonnes of CO₂e**.

That's equivalent to...

429 passenger vehicles on the road!

936 homes' electricity use for one year!

18.7 tanker trucks full of gasoline!

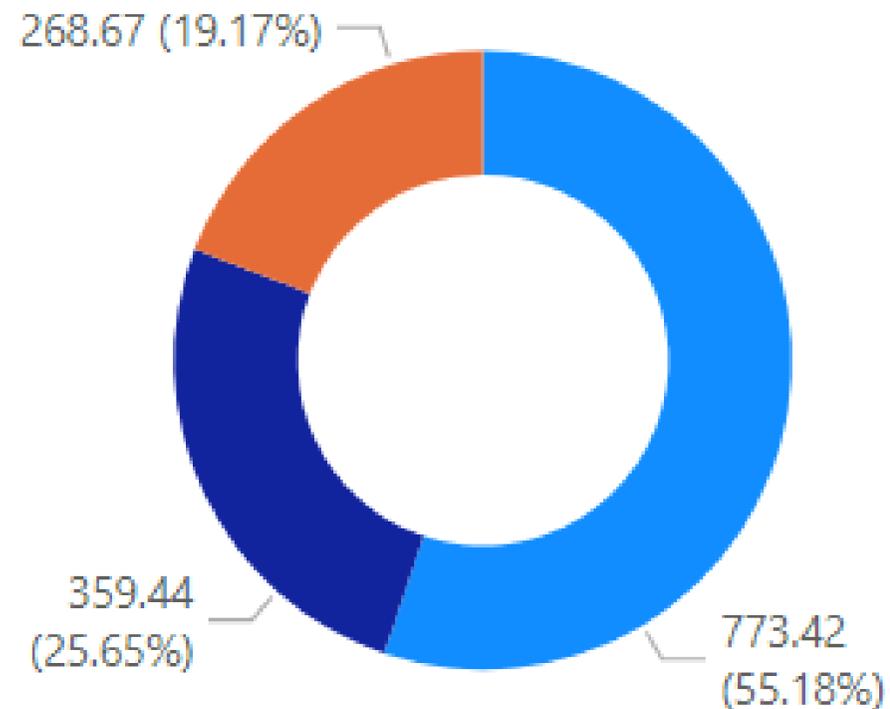
*as of September 2022



GHG REDUCTIONS BY MUNICIPALITY

Out of the 490 completed Switch projects that were analyzed...

GHG REDUCTIONS BY MUNICIPALITY



- 0** Our 308 Charlottetown projects reduced **773.42** tonnes of CO2e.
- 0** Our 147 Stratford projects reduced **359.44** tonnes of CO2e.
- 0** Our 35 Wolfville projects reduced **268.67** tonnes of CO2e.



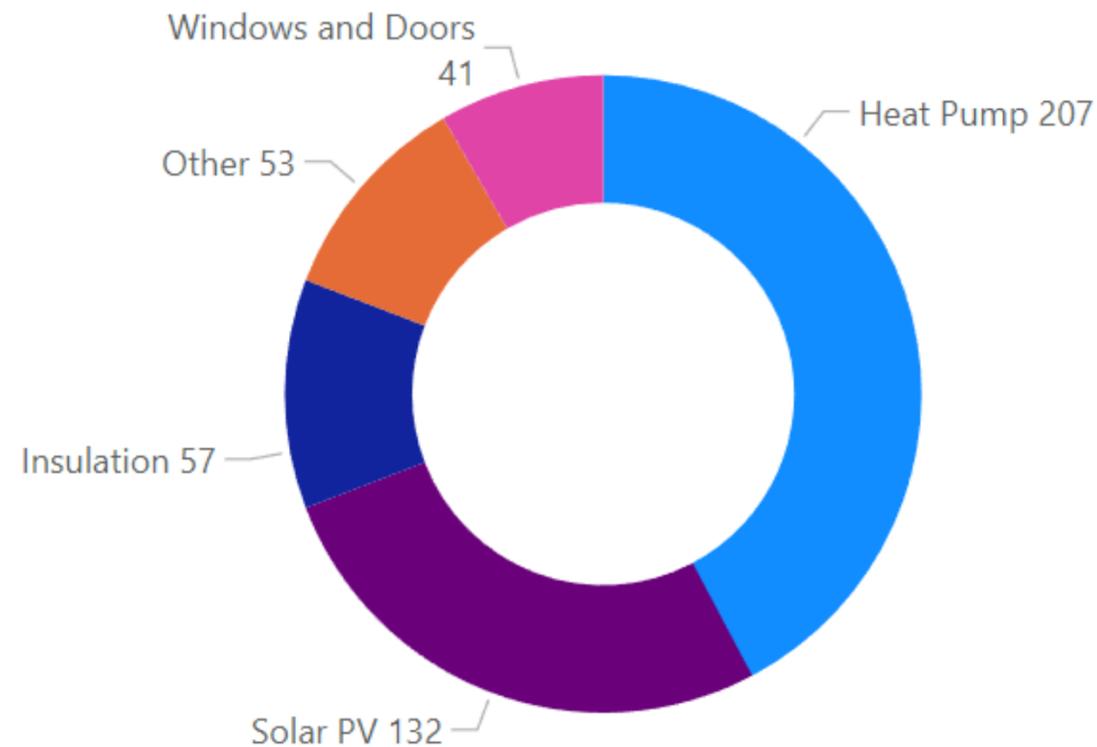
*as of September 2022



GHG REDUCTIONS BY PROJECT

Out of the 490 completed Switch projects that were analyzed...

GHG REDUCTIONS BY JOB TYPE



- 207 were heat pump projects, reducing **609.39** tonnes of CO₂e.
- 132 were solar PV projects, reducing **568.02** tonnes of CO₂e.
- 151 were insulation, windows and doors, and other projects, reducing **224.11** tonnes of CO₂e.

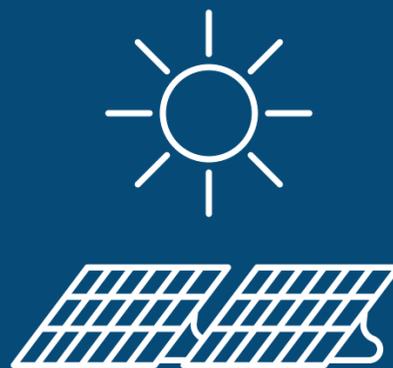
*as of September 2022



SIGNIFICANCE

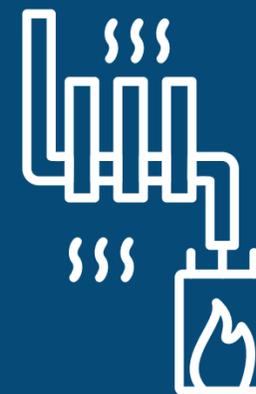
From analyzing this data, we have learned that these home energy retrofits are the most effective at reducing carbon usage in communities.

SOLAR PV



4.3 tonnes reduced
annually per project.

EQUIPMENT



2.4 tonnes reduced
annually per project.



WANT TO LEARN MORE?
CONTACT US HERE:

Switch Charlottetown _____ **+1 (902) 334-6031**
www.switchcharlottetown.ca

Switch Stratford _____ **+1 (902) 706-4042**
www.switchstratford.ca

Switch Wolfville _____ **+1 (902) 454-0899**
www.switchwolfville.ca