

# ENERGY ADVISOR TRAINING & ENERGUIDE AUDITS

September 6, 2023



# TOPICS FOR DISCUSSION

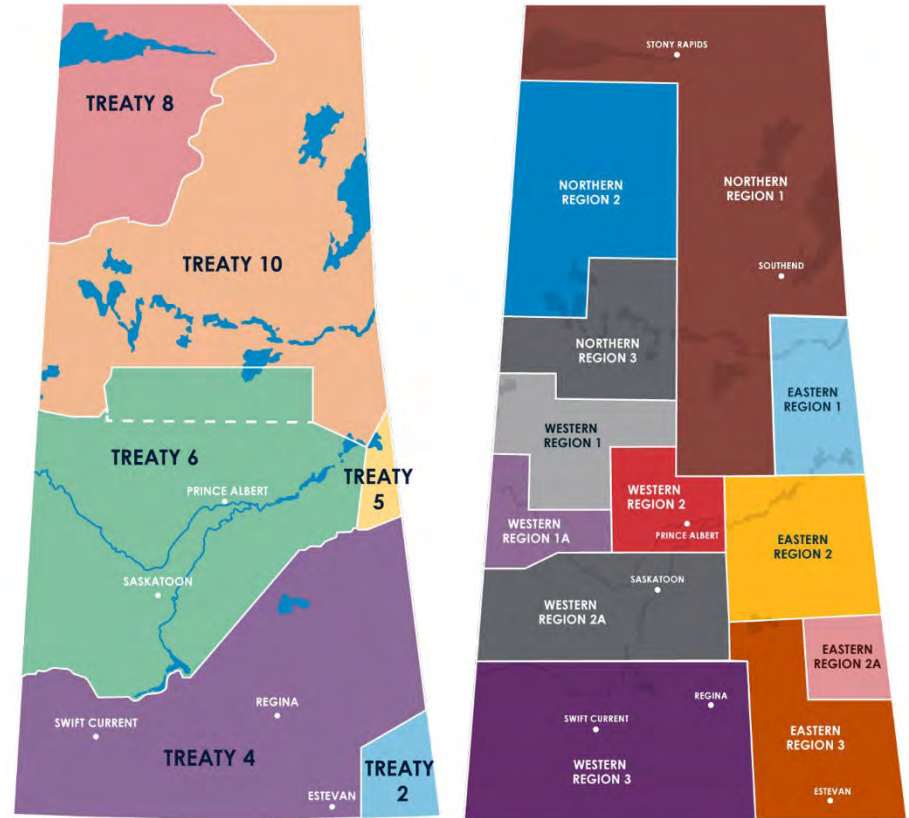
- SaskPower Energy Advisor (EA) Training Program
- What's Involved in an Audit
- Benefits of an Audit
- Grant & Funding Opportunities
- Other SaskPower Programs



# SASKATCHEWAN INDIGENOUS LAND ACKNOWLEDGEMENT

I would like to acknowledge that we are coming together in the territorial lands and the homeland of the Métis.

We respect and honor the ancestral homes of Saskatchewan's Indigenous peoples and are committed to moving forward in the spirit of reconciliation and collaboration.



NUMBERED TREATIES & MÉTIS LOCAL MAPS OF SASKATCHEWAN

# WHY IS THE ENERGY ADVISOR PROGRAM BEING OFFERED?

- Support the recruitment, training and mentoring of EnerGuide energy advisors in underserved areas and underrepresented groups
- NRCan was anticipating an increased demand for home energy audits in all regions of the province.



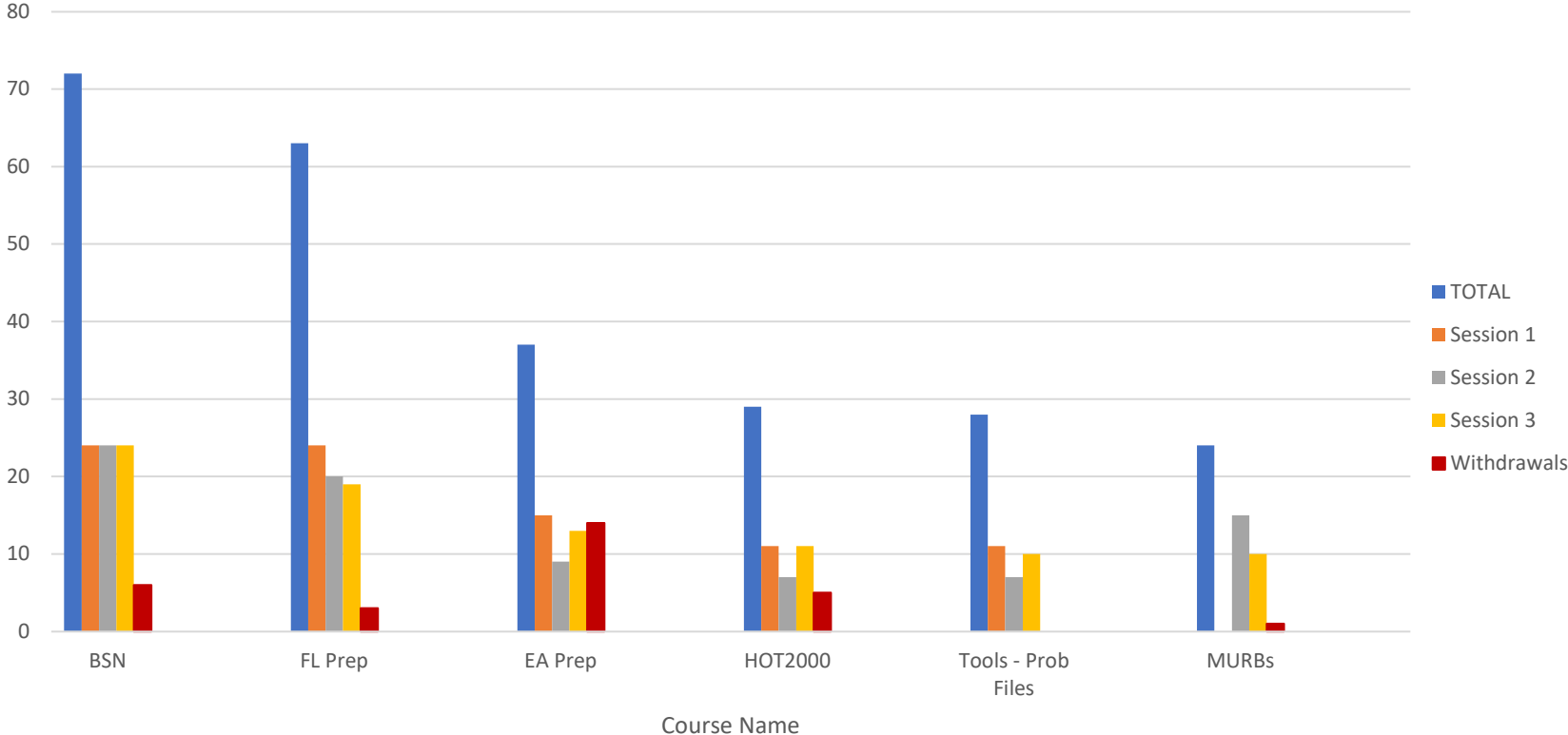
Government  
of Canada

# WHY THE ANTICIPATED DEMAND FOR AUDITS?

- The Canada Greener Homes Grant (CGHG) program launched in 2021 and provides homeowners funds to complete energy efficiency retrofits.
- To participate in the CGHG program, applicants must complete an EnerGuide home energy audit.



# PROGRAM PARTICIPANT STATS



# BARRIERS TO COMPLETION

“I would prefer online training”

“Can’t find anyone to complete my probationary files”

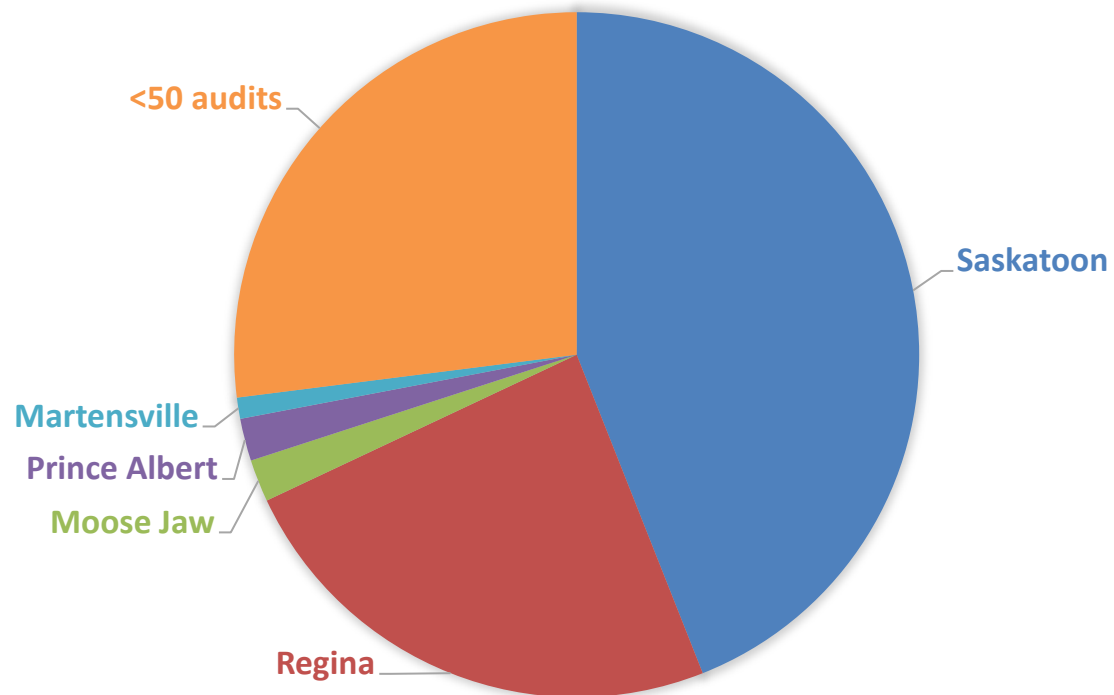
“Not the job I thought it would be”

“Too much of a time commitment”

“Service Organizations aren’t hiring”

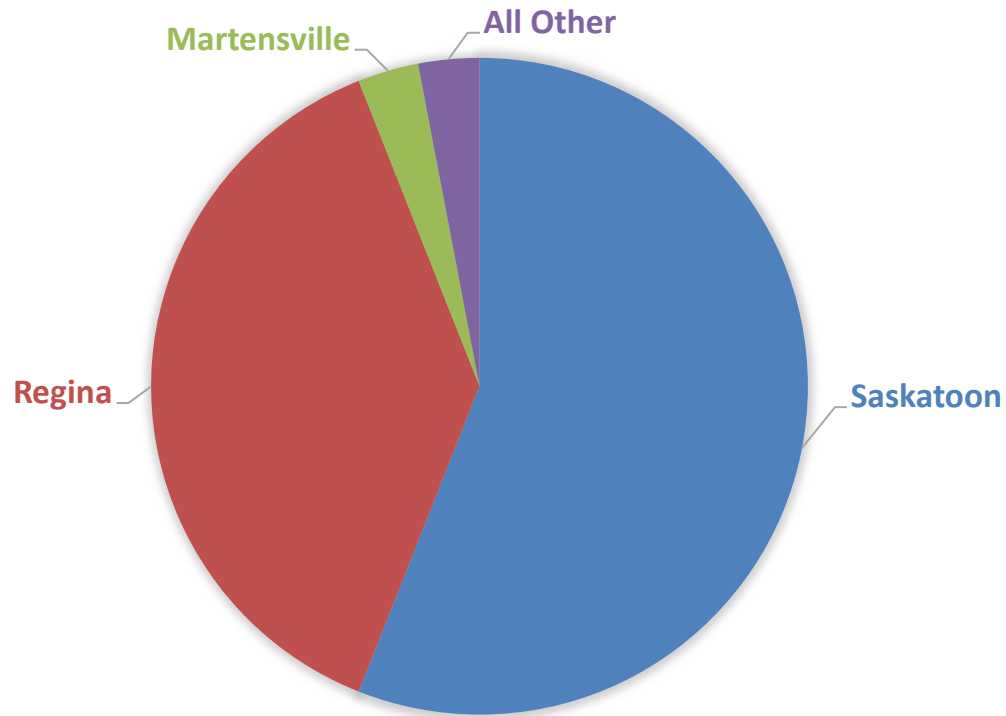
“Didn’t pass NRCan exam”

# EXISTING HOME AUDITS





# NEW HOME AUDITS



# SERVICE ORGANIZATIONS



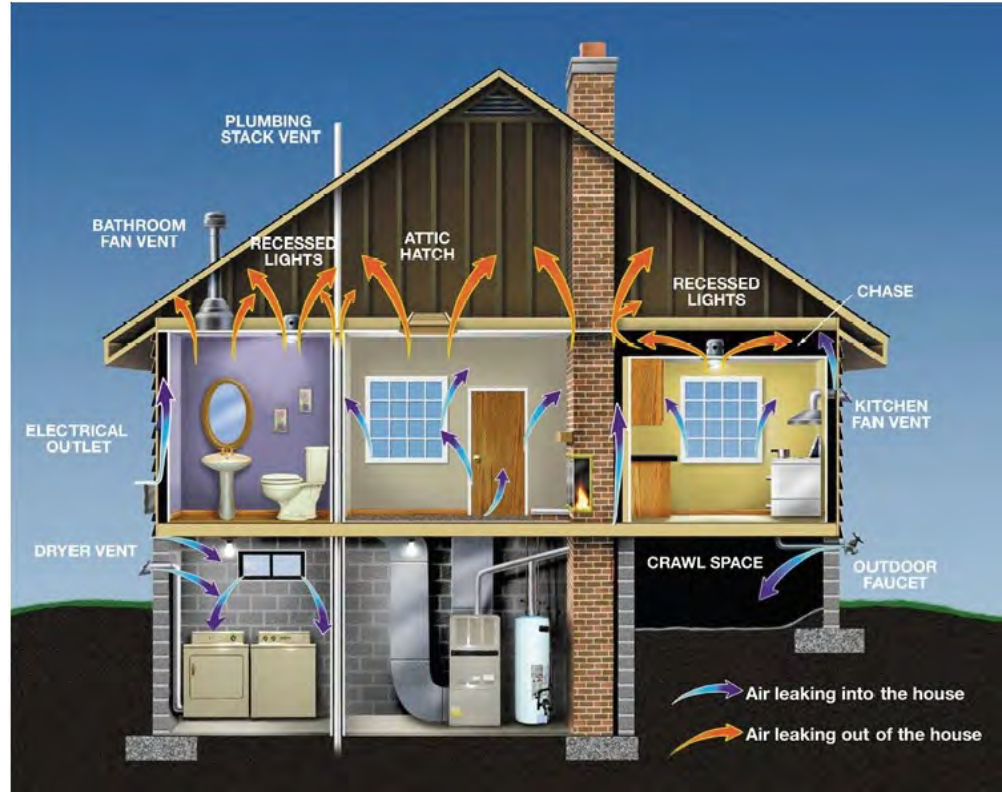
# WHAT IS AN ENERGY AUDIT?

File ID/Job #: 15xy.Dxxxxxy

File ID/Job #:

Page: 3

House Type <u>Single Det</u>	Floors <u>1</u>	Orientation <u>East</u>	Year <u>1967</u>	Previous File ID <u>8000000</u>	APR <u>8000000</u>	Other Programs HERS IEL P/NA	Taxroll <input checked="" type="checkbox"/>	Identificatio <input checked="" type="checkbox"/>	
Upgrades to Analyze		Details		Upgrades		Details			
<input type="checkbox"/> furnace/boiler (oil/gas)	<input type="checkbox"/> air source heat pump (ASHP)	<input type="checkbox"/> geothermal	<input type="checkbox"/> a/c	<input type="checkbox"/> hv	<input type="checkbox"/> dhw (indusod, tankless, co)	<input type="checkbox"/> ASDP dhw	<input type="checkbox"/> photovoltaic (PV) system	<input type="checkbox"/> windows	
<input type="checkbox"/> doors	<input type="checkbox"/> ceiling (attic, cathedral)	<input type="checkbox"/> walls	<input type="checkbox"/> knee walls	<input type="checkbox"/> exposed floor	<input type="checkbox"/> rim joist	<input type="checkbox"/> basement walls	<input type="checkbox"/> crawlspace (walls/floor/ab)	<input type="checkbox"/> air sealing	
<input type="checkbox"/> solar dhw	<input type="checkbox"/> drain water heat recovery	<input type="checkbox"/> other (specify)	Condenser Make/Model		Evaporator Make/Model		DRYER VENT		
Advisories		Evaluators Co		Type: <u>NG Cond</u>		Type:		Type:	
<input type="checkbox"/> depressurization	<input type="checkbox"/> vent exhaust fans	<input type="checkbox"/> vent dryer outside	<input type="checkbox"/> poly on crawl floor	<input type="checkbox"/> vermiculite	<input type="checkbox"/> insulation	<input type="checkbox"/> ventilation	<input type="checkbox"/> attic ventilation	<input type="checkbox"/> control ext mold/mo	<input type="checkbox"/> damaged window
Blower door test date		House (Pa)		Mins		House (Pa)		Mins	
Reg		House (Pa)		Mins		House (Pa)		Mins	
Outside T: <u>22</u> °F/°C		Inside T: <u>22</u> °F/°C		Combustion spillage test:		Toilets		Generation	
Toilets		Generation		P/V panel m/h:		inverter m/h:		inverter m/h:	



# ENERGUIDE RATING SYSTEM

Once data collection is complete the energy advisor uses the EnerGuide rating system to rate the energy performance of a house and provide a report on their findings to the homeowner.

## HOW YOUR RATING IS CALCULATED:

I. Rated annual energy consumption	132 GJ/year
II. Minus renewable energy contribution	- 0 GJ/year
Equals your EnerGuide rating	= 132 GJ/year

I. Your rated annual energy consumption is the total amount of energy your house would use in a year based on the EnerGuide Rating System standard operating conditions. For your house, this includes 12.28 GJ of passive solar gain.

Energy Sources	Rated Consumption (GJ/year)	Equivalent Units (per year)	Greenhouse Gas Emissions (tonnes/year)
Natural gas	102	2736 m <sup>3</sup>	5.0
Electricity	30	8384 kWh	6.3
Total	132		11.3

II. On-site renewable power generation systems can offset some or even all of your home's energy consumption. Renewable energy contributions are factored differently for your rating and your greenhouse gas emissions calculations.<sup>1</sup>

On-Site Renewable Energy	Estimated Contribution (GJ/year)	Equivalent Units (per year)	Offset Greenhouse Gas Emissions (tonnes/year)
Electricity	0	0 kWh	0.0
Solar water heating	0	0	0.0
Total	0		0.0

## HOW YOUR CONSUMPTION COMPARES:

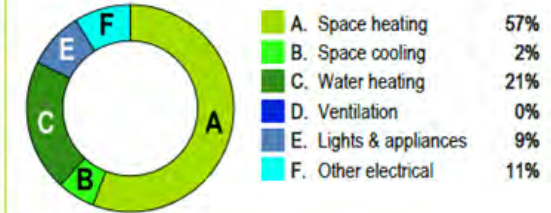
Compared to a typical new house, your house uses:

43.5% more energy;

61.3% more energy, when excluding the estimated energy consumption of lighting, appliances and electronics.

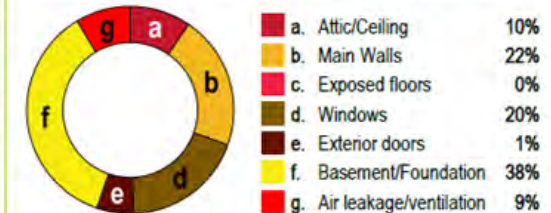
## HOW YOUR RATED ENERGY IS USED:

The chart below represents the breakdown of rated annual energy consumption in your home under standard operating conditions. You can use these figures as a guide to help identify where you can lower home energy costs through proper home maintenance, efficient home operation, energy efficiency renovations or equipment replacement.



## WHERE YOUR HOME LOSES HEAT:

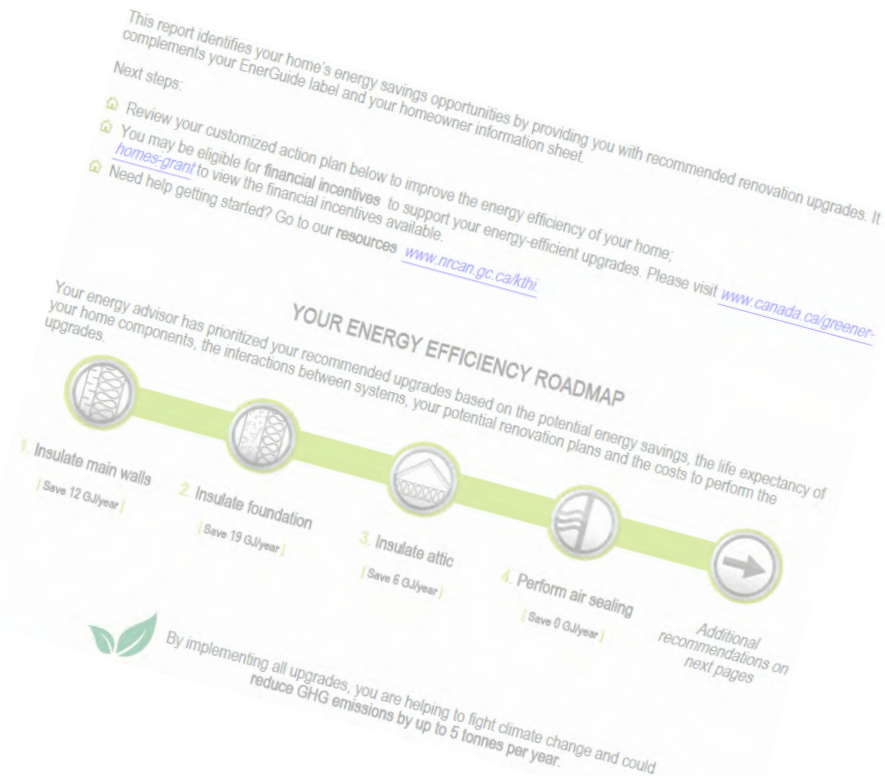
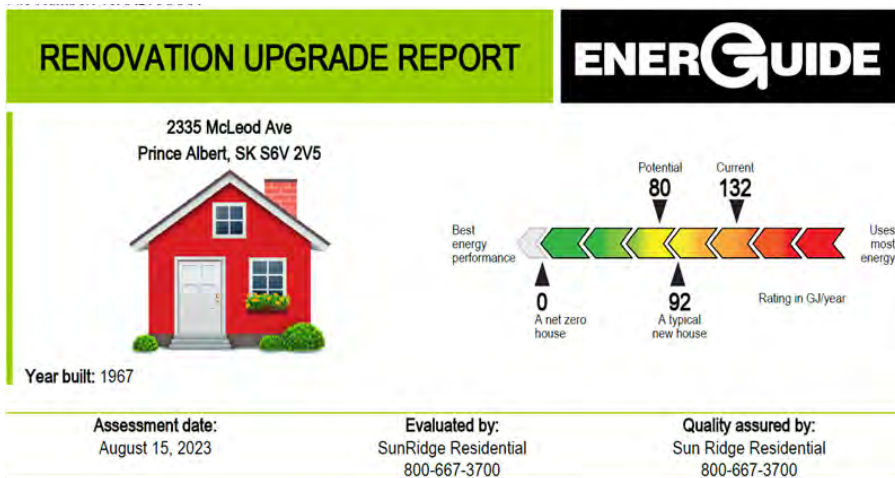
Houses lose heat through their exterior shell, or building envelope. The chart below shows where and how your home loses heat. The quality and upkeep of your home can have a major impact on the amount of energy your heating and cooling systems use annually.



\*EnerGuide is an official mark of Natural Resources Canada. Refer to the glossary section for an explanation of relevant terms.

# RECOMMENDATION ON UPGRADES

The homeowners will receive a recommendation report on how to improve the energy efficiency of the home.



# BENEFITS OF AN AUDIT

- Provides a better understanding of the impact that energy usage has on finances and home comfort
- It gives evidence based recommendations on how to improve your home's energy efficiency
- It allows access to multiple energy-related rebate and grant programs



# Canada Greener Homes Grant: The Journey

## STEP 1: APPLY



## STEP 2: PRE-RETROFIT ENERGUIDE EVALUATION

## STEP 2B: (OPTIONAL) INTEREST FREE LOAN



## STEP 3: RETROFIT YOUR HOME

## STEP 4: POST-RETROFIT ENERGUIDE EVALUATION



## STEP 5: REQUEST AND RECEIVE YOUR GRANT

## STEP 6: COMPLETE YOUR RETROFIT JOURNEY



# ENERGY USE & SAVINGS

## AROUND YOUR HOME





# CURRENT ENERGY EFFICIENCY PROGRAM

SaskPower aims to provide opportunities for all residential customers to save on their utility bills and receive educational and financial support as they make energy efficient choices in their homes.



# THE ENERGY ASSISTANCE PROGRAM (EAP)

The EAP provides support to customers to help address energy affordability challenges.

The program provides income qualified customers (<\$70,000) with access to the following:

Free home energy  
assessments



Free product  
upgrades:  
LED lightbulbs  
Smart thermostat  
Power bars  
High efficiency  
showerheads and  
faucets  
Drying rack



One-on-one energy  
education

# FUTURE CONSIDERATIONS

- Residential Energy Efficiency Discounts
- Collaboration with SaskEnergy
- Stacking of Incentives
- Smart Load Management Programs



# QUESTIONS

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