

Updates to AEA Funding Programs




ARCTIC ENERGY
ALLIANCE

Rebates on Energy-Efficient Products

Product Rebates

- Save \$\$
 - Reduce greenhouse gases
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Product Rebates

- For:
 - Homes
 - Businesses
 - Non-profit organizations
 - Community governments
 - Cabins
- 

ENERGY STAR® Certified Appliances



Washers and ventless dryers



CAS

On-Demand Gas/Propane Water Heaters



On average, uses 30% less energy than a storage tank model

Rebate: \$750

Upright and Chest Freezers



CAS



CAS

Rebate:

50% up to \$400 in non-hydro community
or \$200 in hydro community

Fridges and Dishwashers



LED Lighting

- **LED FACTS**

- LEDs use up to 80% less energy than incandescent bulbs
- LEDs last 3 times longer than CFLs and 25 times longer than incandescent bulbs
- Can be dimmable and very durable (depending on the model)



Programmable Thermostats

- Get 50% back on the cost of a programmable thermostat, up to \$100.



ECM Pumps



Rebate: 50%, up to \$175

Can be included for purchase and install rebates in our business, community government and non-profit funding programs

More: Heating Appliances & Home upgrades

- To find out more please visit <http://aea.nt.ca/programs/energy-efficiency-incentive-program>

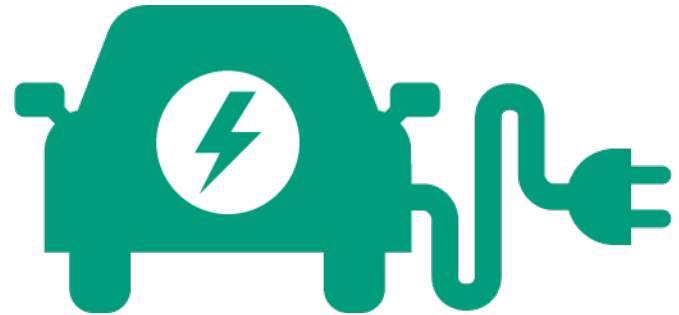


Electric Vehicles and Charging Infrastructure

Electric Vehicles


Item	Rebate
Battery electric vehicle	\$5,000
Plug-in hybrid electric vehicle	\$5,000
Level 2 charging station	\$500

Pre-approval is required.




Businesses and Non-profit Organizations


Commercial & Non-profit Programs

- Lower energy bills
 - Reduce electricity, heating fuel and water consumption in buildings
 - Reduce GHGs where possible
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Commercial & Non-profit Programs

- Available services:
 - Advice
 - Building Energy Audits
 - Desktop
 - On-site
 - Rebates
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Commercial & Non-profit Programs

- Advice
 - Efficiency upgrades
 - Renewable energy
 - Appliances
 - Etc.
- 

Commercial & Non-profit Programs

- Building energy audits
 - Desktop (a.k.a. yardstick audit)
 - On-site (a.k.a. targeted audit)
- 

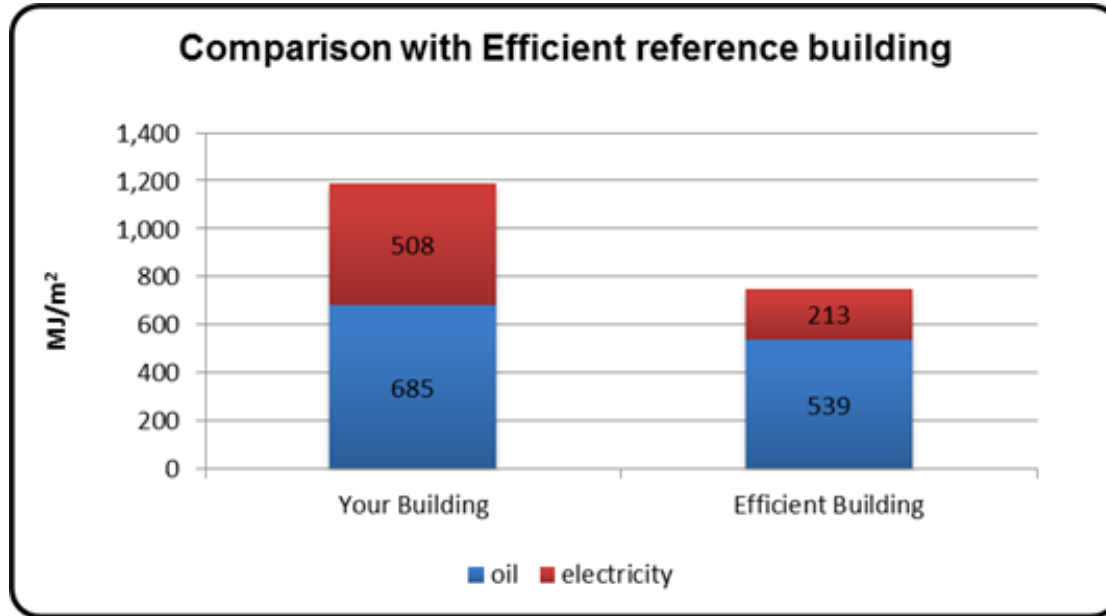
Building Energy Audits

- Desktop energy audits

Analyzes utility billing information from your building and compares it to a reference building

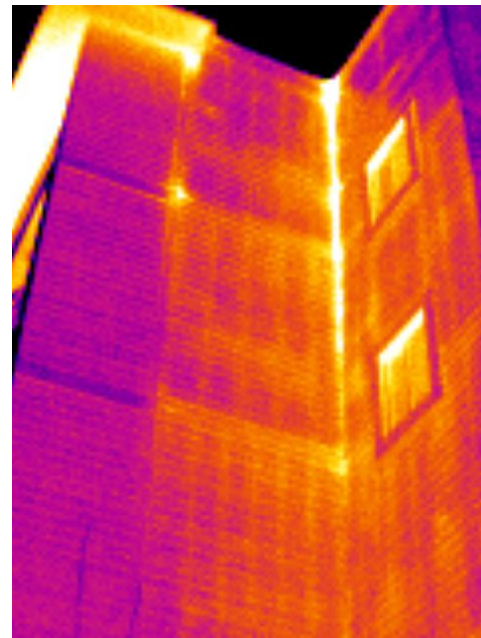
- Determines if a more in depth, on-site investigation of your building would be useful

Building Energy Audits



Building Energy Audits


- On-site energy audits
 - Only available after receiving a yardstick audit from AEA
 - Energy Advisor goes through building in detail




Building Energy Audits

- Businesses: free
- Non-profits: free, but must commit to completing \$20,000 worth of energy upgrades to the building

Commercial & Non-profit Programs

- Rebates
 - Any project that will save energy
 - Electricity, heating fuel, water reductions
 - We calculate the savings
 - Must be technically feasible
- 


Rebates

- You will receive **the lower of:**
 - 50% of total eligible costs
 - A calculation based on dollars and GHGs saved
 - \$50,000 maximum
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Rebates

- Eligible costs
 - Materials
 - Shipping
 - Installation
 - Project management services provided by a third party contractor
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Rebates

- Next – you decide on a project
 - Get advice from AEA
 - Or talk to a contractor
 - Or complete an audit to get a few project ideas (this takes time)
 - Choose a project
 - APPLY
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Rebates

- How do I apply: <http://aea.nt.ca/>

ARCTIC ENERGY ALLIANCE

ABOUT info and contact | SAVING ENERGY tips and tech | NEWS new and archived | **PROGRAMS support for initiatives** | COMMUNITIES community information | RESEARCH studies and reports

BACK TO HOME

INTERESTED IN WOOD PELLET STOVES?

ARCTIC ENERGY ALLIANCE WINS FIRST ENERGY STAR® CANADA AWARD
The Arctic Energy Alliance (AEA) is thrilled to be the recipient of the 2020 ENERGY STAR Canada Program Administrator of the Year award.
[Read More »](#)

ELECTRIC VEHICLE REBATES NOW AVAILABLE
Residents and organizations in nine NWT communities can now get additional rebates on electric vehicles, on top of recently announced federal government incentives.
[Read More »](#)

REBATE PROGRAM UPDATES FOR 2020/21
The AEA has made some changes to our rebate programs for the 2020/21 fiscal year. Most of these changes make it easier for people to apply for rebates.

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EFFICIENCY REBATES AND SERVICES FOR BUSINESSES

Arctic Energy Alliance (AEA) has energy experts and money available to help your businesses conserve energy and improve its energy efficiency. If you own a business and are interested in saving money by reducing the amount of heating fuel, electricity and water used, or want to reduce your greenhouse gas emissions, this program is for you.

APPLICABLE TO
HOMEOWNERS
MUNICIPALITIES
NON-PROFITS
BUSINESSES ✓
FIRST NATIONS

REBATES
The AEA provides rebates of up to \$50,000 for energy upgrades. The rebate amount you receive will be the lower of:
• 50% of the total eligible costs of your project
• A calculation based on the amount of money and greenhouses gases that your project will save (see the program guidelines for more information)


FIRST STEPS
We encourage you to **contact us** to discuss your potential energy-saving project and the rebates you can receive from the AEA. This conversation will help you determine whether to go through the process of having a yardstick energy audit done or the simpler process of submitting receipts. You will then complete your paperwork and submit it to us.

INVESTIGATING SAVINGS
The AEA will analyze your utility bills to see where energy savings might be possible. (This is called a yardstick energy audit.) If there is energy to be saved, and you want to save some of it, we will ask you to confirm you have money available for the energy upgrades, that you won't apply for other GNWT programs to pay for the energy upgrades, and that you will let us document and showcase your energy savings work.

APPLICATION FORMS
Application Form
Application Guidelines
Yardstick Audit Information Requirements

OTHER PROGRAMS
• Rebates on energy-efficient products
• Efficiency rebates and services for businesses
• Rebates on renewable energy products

Commercial & Non-profit Programs

- Typical projects
 - Lighting
 - ECM pumps
 - Insulation and air sealing
 - Higher efficiency heating systems
 - Controls
 - Ventilation systems
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Example: LED Upgrades (2019/20)

	Hydro Community	Non-Hydro Community
Avg. capital cost	\$16,000	\$26,000
Avg. rebate	\$5,800	\$13,000
Capital costs funded	36%	50%
Avg. annual savings	\$3,700	\$13,000
Payback with funding	2.8 years (many < 2 years)	0 years (many 0-2 years)




Example: ECM Pump/Fan Upgrades

- Reduce electricity use
- Typically used in:
 - Hydronic heating
 - Water circulation
 - Ventilation



Example: ECM Pump/Fan Upgrades

- More variable capital cost
 - Depends on amount and size of pumps being replaced
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Example: ECM Pump/Fan Upgrades

Capital cost	\$5,000-\$50,000+
Typical rebates	50% of capital cost
Reduction in electrical consumption	Minimum of 50%
Payback with funding	<2 years

ECM Pump Upgrades

Existing non-ECM pump
(for hydronic heating)



ECM pump
(direct swap for the
pump to the left)



Example of ECM pumps
used for hydronic
heating in a typical
configuration



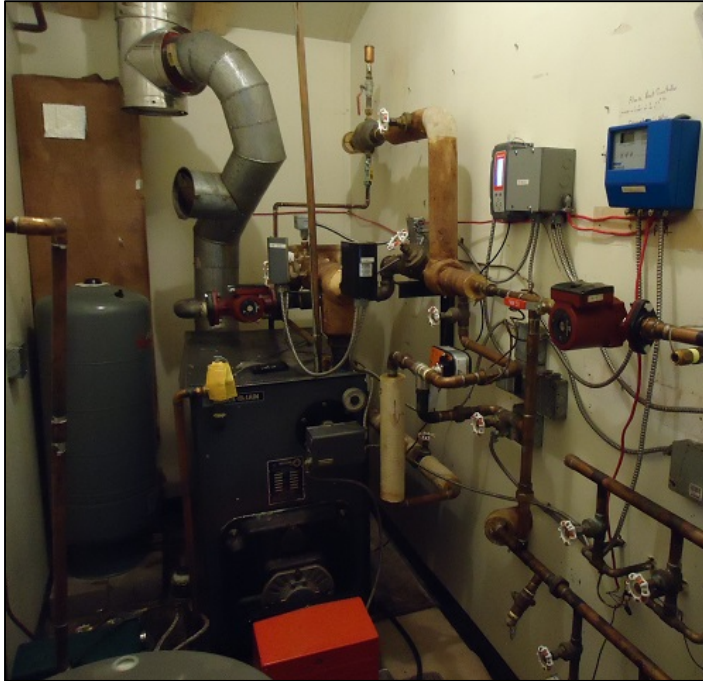
Example: Boiler Upgrades (2019/20)

- From oil to high-efficiency propane

Avg. capital cost	\$28,000 (incl. labour, boiler replacement, piping, chimneys)
Typical rebates	50% of capital cost
Avg. annual savings	\$7,400
Avg. annual GHG savings	14 tonnes
Payback with funding	< 2 years

Boiler upgrades

Old oil-fired boiler



New, wall mounted, high efficiency propane boiler



Community Governments


Community Governments

- Upgrades to community government-owned buildings
 - reduce electrical energy, heat energy and water.


Air sealing and windows:
Town of Inuvik



Community Governments


- Services:
 - Rebates
 - Building energy audits
(desktop and on-site)
 - Project coordination
- 

Community Government Results 2019/20

- 10 total rebates (in 7 communities)
 - Total value of rebates: \$220,000
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Community Government Results 2019/20

Payback

- Capital cost (all projects, before rebates):
\$600,000
 - Estimated annual savings: **\$300,000**
 - Simple payback (after rebates): **1.3 years**
- 

Community Government Results 2019/20

Greenhouse gases

- Annual greenhouse gases avoided: 200 tonnes
 - equivalent to taking 43 cars off the road

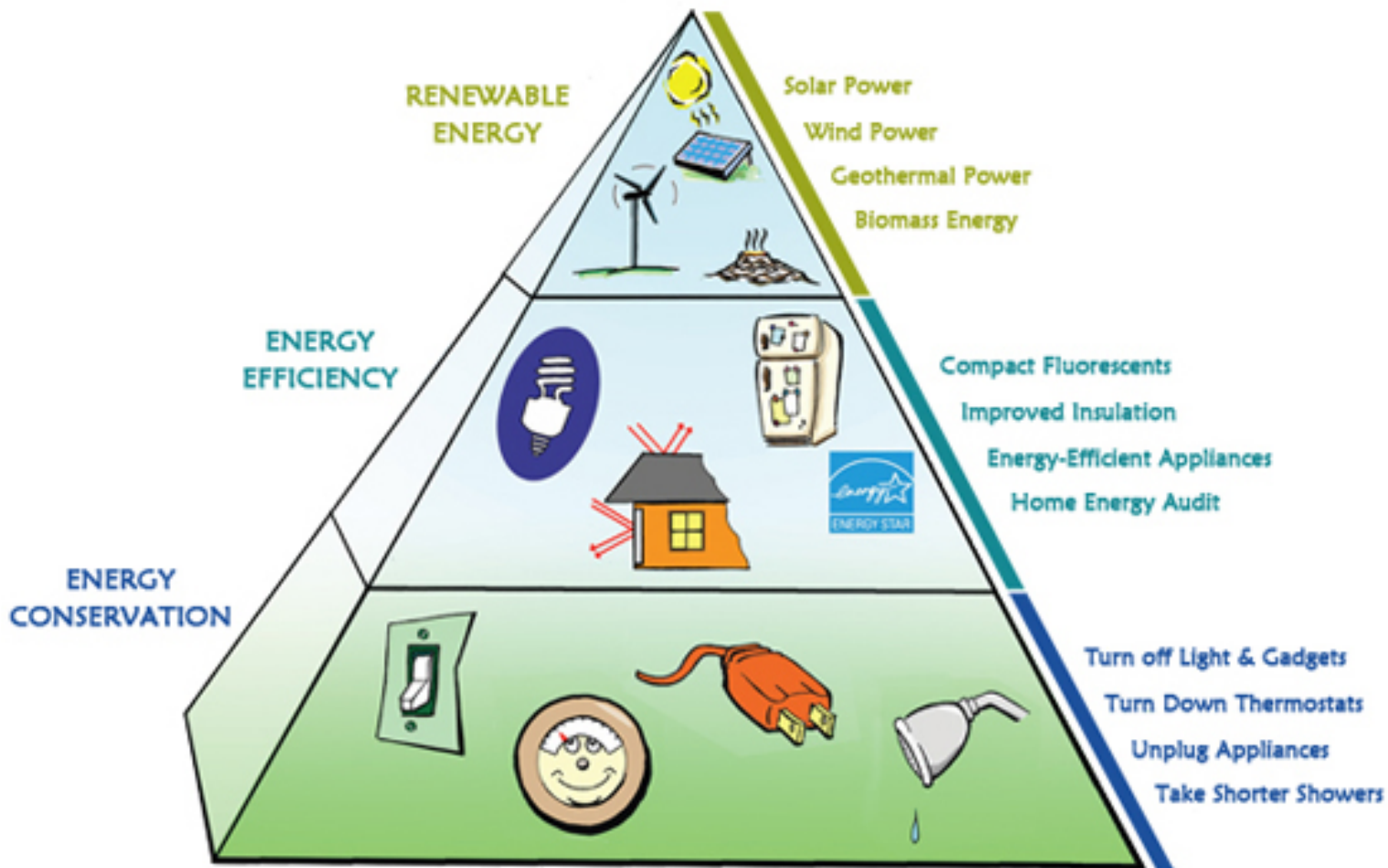
Community Government Results 2019/20

Energy savings

- Annual electricity consumption avoided:
250,000 kWh
 - equivalent to running 570 laptop computers 24 hours a day for a year


Home Energy Evaluations and Upgrade Recommendations

The Smart Energy Living® Pyramid




Home Evaluations

EnerGuide Rating Service

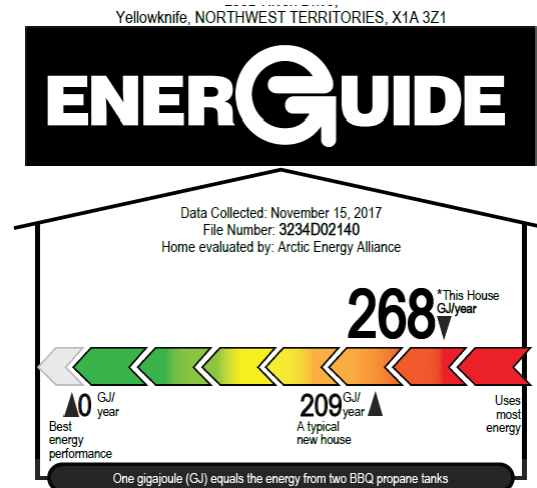
- Home energy evaluations provided:
 - By the AEA for 20+ years to all 33 NWT Communities !!
 - Natural Resources Canada = Program sponsor
 - To:
 - Residents
 - Businesses
 - Community & indigenous governments
 - Non-profit organizations
- 

EnerGuide Rating Service

- Service includes:
 - 2.5 hour on-site full house evaluation
 - 75% of cost covered by GNWT
 - Homeowner only pays \$150+GST
 - Computer modeling of current house, plus various energy upgrades
 - Summary report, EnerGuide label & renovation upgrade report
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EnerGuide Rating Service

- Homeowner receives:
 - Personalized plan for upgrades
 - including cost & GHG savings
 - Report
 - references eligible rebates/incentives
- A post-retrofit evaluation is not required to claim rebates



Energy Conservation & Efficiency

- Energuide Rating Service
- Project advice and expertise



Home Improvements


Deep Home Energy Retrofit Program

- Pre- & post-retrofit energy evaluation required
- Going “deep” with a building envelope insulation upgrade

\$20,000 maximum rebate !




Deep Home Energy Retrofit Program

- Up to \$20,000 per house,
 - up to 5 houses per year per owner
 - Requires minimum R10 be added to walls
 - Rebate ranges from \$3,000 - \$8,000
 - R10-R14 = \$3,000
 - R15-R19 = \$5,000
 - R20+ = \$8,000
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Deep Home Energy Retrofit Program

- Other rebates (after wall insulation complete):
 - 200% rebates on all other eligible insulation upgrades
 - ENERGY STAR certified windows
 - \$250 per eligible window up to \$3,000 (12 windows)
 - Primary heating system
 - Up to \$3,000

Deep Home Energy Retrofit Program

- Other rebates (after wall insulation complete):
 - Air sealing
 - Up to \$1,000
 - Shipping
 - up to \$2,000
 - for communities without year-round road access
 - Bonus rebate
 - up to \$4000
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Deep Home Energy Retrofit Program

- Available until March 31, 2022 (maybe longer)


Renewable Energy

Renewable Energy Rebates


- Examples:
 - Solar*
 - Wind*
 - Wood pellet heating
 - Biofuel/synthetic gas
 - Ground-source heat pumps

*As of November 19, 2018, the AEA can no longer offer rebates on grid-connected renewable electricity projects in communities that use hydroelectricity.

Renewable Energy Rebates

- Residents: **up to \$20,000**
 - Businesses, community governments, Indigenous governments and non-profit organizations: **up to \$50,000.**
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Renewable Energy Rebates

- You will receive **the lower of:**
 - 50% of total eligible costs
 - A calculation based on dollars and GHGs saved
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NAHANNI INN – BIO MASS & STORAGE 2019




Nonacho Lake Fishing Adventures



2019 & 2020
remote solar
installation

Contact Info

Contact Info

- General:
 - 867-920-3333 | 1-877-755-5855 (toll-free) | info@aea.nt.ca
 - Sheena Adams:
 - 867-678-2339 | sheena.adams@aea.nt.ca
 - Scott Dowler:
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 - Ken Baigent:
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Thank you

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Questions?



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