

# APPLIANCE RETIREMENT FACT SHEET



## Appliance Retirement Program Overview

- Efficiency Nova Scotia will pick up old (10 or more year old) working fridges and freezers, 10-25 cubic feet, and pays \$30.
- The program can collect a mini fridge, small freezer, or air conditioner on the same trip and pays \$10.
- Fridges contain harmful substances like freon (CFC's) and insulation that pollute if not recycled.
- Efficiency Nova Scotia will recycle the fridge responsibly to make sure the harmful substances are handled properly.
- Refrigerators are energy hungry not only because they consume 500-750 W each but also because they are constantly operating, unlike other appliances.
- Efficiency Nova Scotia offers rebates on energy efficient appliances like fridges anytime.

## Cost Savings Examples

Average fridge: 18-20 cubic feet, with top freezer, over 10 years old  
Energy costs per year: \$150 (76.5 kWh per month)

Replace the average fridge with a smaller fridge:

- 16.6 cubic feet [Frigidaire freezerless fridge](#) (not Energy Star)
- Costs \$899 and uses 318 kWh/yr
  - 318 kWh per year \* \$0.148/kWh (NS Power rate) = \$47.06 energy cost per year
  - \$150 (energy cost per year for old fridge) - \$47.06 (energy cost per year for new fridge) = \$102.94 energy cost savings per year
  - \$899 (cost of new fridge) - \$30 (reimbursement for old fridge retirement) = \$869
  - \$869 / \$102.94 (power savings) = 8.44 years to get a return on investment

Replace the average fridge with an energy efficient mini fridge:

- 3.2 cubic feet [Danby Energy Star mini fridge](#)
- Costs \$200 and uses 218 kWh per year
  - 218 kWh per year \* \$0.148/kWh (NS Power rate) = \$ 32.26 per year
  - \$150 (energy cost per year for old fridge) - \$32.26 (energy cost per year for new fridge) = \$117.74 saved on electricity/year
  - \$200 (cost of new mini fridge) - \$30 (reimbursement for old fridge retirement) = \$170
  - \$170 / \$117.74 savings= 1.4 years to get a return on investment

## Resources

[Efficiency Nova Scotia Appliance Retirement Program](#)

[Efficiency Nova Scotia Energy Use Calculator](#)

[The Most Energy Sucking Appliances in Your Home](#)

[Appliance 411](#)

[EnerGuide Labels in Canada](#)

[How Many Watts do you Need?](#)

[Energy Star Product Finder](#)

## **CURRICULUM LINKS**

### **Science 6: ELECTRICITY**

**Outcome 1 Concepts** static electricity: how and what it is electric current: how and what it is  
electricity may flow in series or parallel circuits electric currents have magnetic fields  
insulators and conductors

#### **Outcome 1 Indicators**

Investigate materials that conduct electricity. (Com, CI, CT, PCD, TF)

Investigate static electricity, drawing conclusions based on evidence. Safely construct series and parallel circuits. (Com, CI, CT, PCD, TF)

Represent results of constructed circuits. (Com, CI, CT, PCD, TF) Investigate how series and parallel circuits are used. (CZ, Com, PCD, CI, CT, TF)

**Outcome 2 Concepts** various methods of generating electricity including renewable and non-renewable  
steps to produce electrical energy electricity can be transformed into light, sound, motion, heat, and magnetic  
effects different sources of energy can be transferred to produce electrical energy

#### **Outcome 2 Indicators**

Explore different sources of renewable energy that can be transferred to produce electrical energy. (CZ, Com, CI, CT, PCD, TF) Explore different sources of non-renewable energy that can be transferred to produce electrical energy. (CZ, Com, CI, CT, PCD, TF) Investigate actions that lead to reducing electrical energy consumption in the environment. (CZ, Com, PCD, CI, CT, TF)

### **Using Energy Meters SCIENCE 6 and SCIENCE 9 A Curriculum Supplement**

- **The Energy Opportunity**
- **Comparing Appliances (Science 6)**
- **Our Lifestyle (Science 6 and Science 9)**
- **My Home Appliance Inventory (Science 6 and Science 9)**
- **Use of Electricity in My School**
- **How Much Do I Use? (Science 9)**
- **Measuring Energy (Science 9)**
- **Measuring Electricity in Your Home**
- **Science 6: Electricity Unit**
- **Science 9: Electricity Unit**
- **Mathematics 6**
- **Mathematics 9**