



Energy Audit

Read the meter, make a change (electrical meter)

Use electrical meter readings to give you information about how much electricity you are using. Use the meter readings to:

- determine the amount of electrical energy you are using
- guide changes to the way you use electricity
- determine the amount of electrical energy you have saved.

There are a couple of different kinds of electrical meters. This is a **digital** meter.

- Find the meter: look outside your house. This one is attached to the outside wall of the house. It will most likely be on the back or the side of the house.
- The meter shown is a SMART meter, which means that it is Wi-Fi connected to Saskatoon Light and Power. They can tell how much electrical energy the house is using without coming to the house. (Some digital meters are not SMART and you or a SaskPower employee, needs to see and record the reading on the meter.)
- It cycles through different information.
- Read the screen that shows a number followed by kWh (see the green arrow).
- **Record the date on the chart (page 2).**
- **Record the meter reading on the chart.**





ELECTRICAL Digital Meter Readings		
	Date	Reading (kWh)
example	Dec 18, 2019	31702
Reading 1		
Reading 2, one week later		
Make a change		
Reading 3, one week later		
Pre-audit electrical energy Reading 2: _____ - Reading 1: _____ = _____ kWh used		
Post-audit electrical energy Reading 3: _____ - Reading 2: _____ = _____ kWh used		
Electrical energy savings Pre-audit kWh: _____ - Post-audit kWh: _____ = _____ kWh saved		



This is a **dial** meter.

- Find the meter: look outside your house. This one is attached to the outside wall of the house. It will most likely be on the back or side of the house.
- This is a not a SMART meter. You, or a SaskPower employee, needs to see and record the reading on the meter.
- **Record the date on the chart (page 4).**
- **Record the meter reading on the chart working from left to right.**
- **If the dial is between two numbers, use the lower number.**



Using data from the charts

Use the readings to help you track electrical energy use and electrical energy reduction.

Readings 1 and 2 allow you to see how much electrical energy has been used over a one-week period.

- Subtract reading 1 from reading 2 to find the electrical energy used, for one week, in kilowatt hours (kWh). This is the pre-audit. It gives you the electrical energy used before the change.

Make a change. Use less electrical energy for one week. Here are a few ways to do that:

- Turn out lights and turn off devices when they aren't being used.
- Use fewer devices or use them for less time.
- *Optional:* Record the ways you used less electricity in the chart on page 5.

Take the 3rd reading.

- Subtract reading 2 from reading 3 to find the electrical energy used, for one week, in kilowatt hours (kWh). This is the post-audit. It gives you the electrical energy reduced by the change.

How much did you reduce electrical energy use?



ELECTRICAL Dial Meter Readings							
	Date	Dial readings					Reading (kWh)
		ten thousands	thousands	hundreds	tens	ones	
example	Dec 18, 2019	5	4	7	9	6	54796
Reading 1							
Reading 2, one week later							
Make a change							
Reading 3, one week later							
Pre-audit electrical energy							
Reading 2: _____ – Reading 1: _____ = _____ kWh used							
Post-audit electrical energy							
Reading 3: _____ – Reading 2: _____ = _____ kWh used							
Electrical energy savings							
Pre-audit kWh: _____ – Post-audit kWh: _____ = _____ kWh saved							



Day/date	How I reduced electricity use	Student:
Monday		
Tuesday		
Wednesday		
Thursday		
Friday		
Saturday		
Sunday		



Water Audit

Read the meter, make a change (water meter)

Use water meter readings to give you information about how much water you are using. Use the meter readings to:

- determine the amount of water you are using
- guide changes to the way you use water
- determine the amount of water you have saved.

There are a couple of different kinds of water meters. This is a **digital** meter.

- Find the meter: look inside your house. This one is in the basement. The meter will be near the front of your house and may be in a closet or storage room.
- This one is a SMART meter, which means that it is Wi-Fi connected to the City of Saskatoon. They can tell how much water the house is using without coming into the house.
- **Record the date on the chart (page 7).**
- **Record the meter reading.**



For this meter the water is measured in cubic meters (m^3). Check whether yours is measured in m^3 or ft^3 .

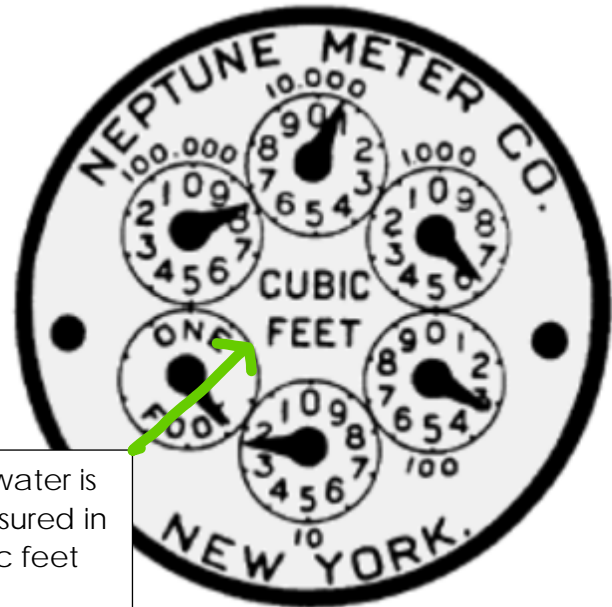


WATER Digital Meter Readings		
	Date	Reading (m ³)
example	Dec 18, 2019	557221
Reading 1		
Reading 2, one week later		
Make a change		
Reading 3, one week later		
Pre-audit water use		
Reading 2: _____ – Reading 1: _____ = _____ m ³ used		
Post-audit water use		
Reading 3: _____ – Reading 2: _____ = _____ m ³ used		
Water savings		
Pre-audit water use: _____ – Post-audit water use: _____ = _____ m ³ saved		



This is a **dial** meter.

- Find the meter: look inside your house. The meter will be near the front of your house and may be in a closet or storage room. (This is a close up of the dials on one that is in the basement.)
- This is a not a SMART meter. You, or a City of Saskatoon employee needs to see and record the reading on the meter.
- **Record the date on the chart (page 9).**
- **Record the meter reading on the chart.**
- **Look at the number written next to each dial. That is the place value of that dial. Be sure to record it in the right column.**
- **If the dial is between two numbers, use the lower number.**



The water is measured in cubic feet (ft³)

Using data from the charts

Use the readings to help track water use and water reduction.

Readings 1 and 2 allow you to see how much water has been used over a one-week period.

- Subtract reading 1 from reading 2 to find the water used, for one week, in cubic meters (m³) or cubic feet (ft³), depending on the meter. This gives you the water used before the change.

Make a change. Use less water for one week. Here are a few ways to do that:

- Take shorter showers or turn off the tap while you are brushing your teeth.
- Check for leaking toilets and taps and fix them.
- *Optional:* Record the ways you used less water in the chart on page 10.

Take the 3rd reading.

- Subtract reading 2 from reading 3 to find the water used, for one week, in cubic meters (m³) or cubic feet (ft³) depending on the meter.

How much did you reduce water use?



WATER Dial Meter Readings									
	Date	Dial readings							Reading (ft ³)
		1,000,000	100,000	10,000	1000	100	10	one	
example	Dec 18, 2019	NA	8	0	6	3	2	0	806320
Reading 1								0	
Reading 2, one week later								0	
Make a change									
Reading 3, one week later								0	
Pre-audit water use Reading 2: _____ - Reading 1: _____ = _____ ft³ used									
Post-audit water use Reading 3: _____ - Reading 2: _____ = _____ m³ used									
Water savings Pre-audit water use: _____ - Post-audit water use: _____ = _____ m³ saved									



Day/date	How I reduced water use	Student:
Monday		
Tuesday		
Wednesday		
Thursday		
Friday		
Saturday		
Sunday		