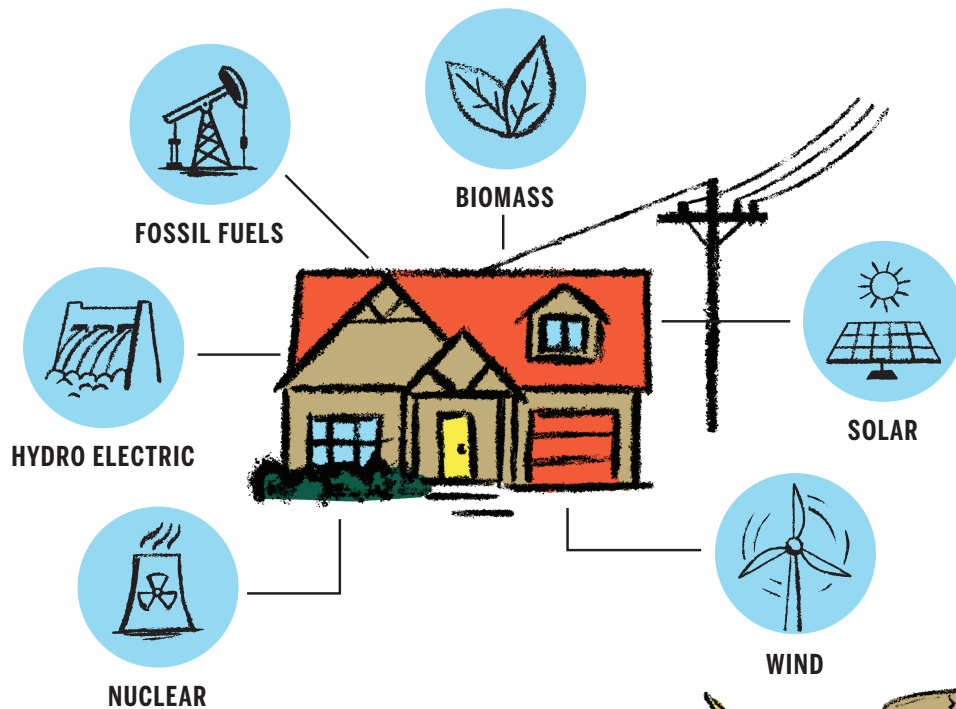


ELECTRICITY

WHERE DOES IT COME FROM?

Electricity powers everything in our world, from our lights, to our cell phones, and even the batteries in our cars. We harness this power through many means, but they all lead to the same place: power lines that directly supply our homes. Without these we would literally be in the dark!



ACTIVITY MAKE A COIN BATTERY

WHAT YOU'LL NEED:

- Ten 'silver' coins (dimes, nickels)
- Ten copper coins (pennies)
- 19 pieces of paper cut into squares (3cm size)
- Vinegar
- A small bowl

- 1 Dip each piece in the vinegar until damp
- 2 Make a column by stacking the coins and vinegar paper - alternating between each material in the following order; copper coin, paper and silver coin
- 3 Soak your fingers in vinegar and hold the column on its ends with one hand (thumb on one side, pointer finger on the other). **Do you feel a buzz?**

HOW DOES THIS WORK?

This is called a wet cell battery (similar to the kind cars use). This type of battery is created using two types of metals separated by an acid. The combination of metals and acid creates a chemical reaction that produces an electric current. That is the buzz you feel.