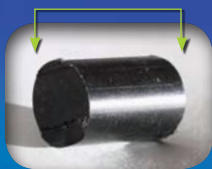


Actual size: 2 cm



# THE POWER OF NUCLEAR ENERGY

**1 URANIUM PELLETT IS EQUIVALENT  
TO THE ENERGY PROVIDED BY:**

**807 kilograms of  
COAL**



**OR...**

**677 litres of  
OIL**



**OR...**

**476 cubic metres of  
NATURAL GAS**



Nuclear power stations are able to produce tremendous amounts of electricity from a very small amount of fuel. In fact, about eight fuel pellets, like the simulated one shown above, can provide the average home with enough electricity for an entire year.

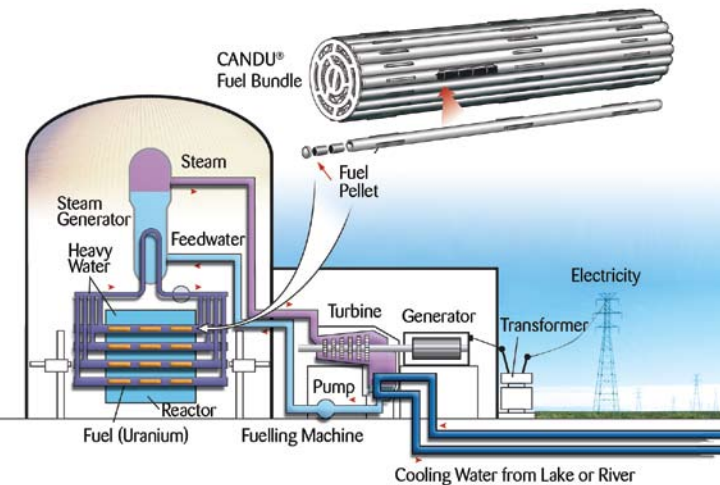
[www.opg.com](http://www.opg.com)

**ONTARIO**POWER  
GENERATION

# NUCLEAR ENERGY: HOW IT WORKS

The fuel is made from natural mined uranium. Uranium atoms are split under controlled conditions to produce what is known as a chain reaction. A small amount of uranium produces large amounts of energy in the form of heat. This heat is then used to boil water, which turns into steam. The steam spins turbines and the turbines power electrical generators to produce electricity.

**Nuclear power plants produce virtually no smog or greenhouse gas emissions, making nuclear power an important energy source to help fight climate change.**



A SIMPLIFIED DRAWING OF A TYPICAL CANDU NUCLEAR POWER STATION.