Photo	Tool Name	Brief Description	Source		
1 Natural Resources for Energy					
NATURAL GAS OFFICIAL PROPERTY OF THE PROPERTY	Coal sample	Sample of coal as an energy resource.	<u>Dodds Coal</u> <u>Mine</u>		
	Oil sands sample	Sample of oil sands as an energy resource.	Donated by CNRL		
	Natural gas pipe	Model of a natural gas pipe demonstrating natural gas as an energy resource.	Donated by ATCO		
	Nuclear sample (plastic replica)	Sample of uranium (nuclear energy) as an energy resource.	Donated by CNA		
	Solar sample	Example of a solar panel demonstrating the sun as an energy resource.	<u>Amazon</u>		
	Wind sample	Photo of a wind turbine demonstrating wind as an energy resource.	Photo		
	Geothermal sample	Model of the earth demonstrating geothermal as an energy resource.	Photo		
	Hydro sample	Photo of a hydroelectric dam demonstrating water as an energy resource.	Photo		
	Biomass sample	Sample of biomass (wood pellets) as an energy resource.	<u>Canadian Tire</u>		
	Alberta Natural Resources Map	Map of Alberta's natural regions and the natural resources found within each.	Inside Ed website		
ender of the control	Natural Resource Riddles (cards)	A series of 9 clues that correspond to each of the natural resourc samples.	Inside Ed website		
2 Canada's Energy Landscape					
	Energy Moves Board Game & Cards	Board game with 6 sets of cards - consultation, environmental assessment, resource extraction, transportation, reclamation & monitoring, and processing.	Inside Ed website		
3 Electricity Generation					
QUB .	Hand Generator	Converts mechanical energy to electrical energy to light a light bulb. Leads can also be attached to a multimeter, LED bulb, etc.	<u>Kidder</u>		
	Multimeter	An instrument that measures electric current, voltage and resistance.	Ajax Scientific		
Energizer ;	D-Cell battery	A large battery used in the electromagnet building experiment.	Amazon		
	Bolt (zinc, 3in)	A zinc bolt used in the electromagnet building experiment.	<u>Amazon</u>		
All of the items on this list are available for nurchase from various vendors. If you need a hand sourcing tools for your classroom					

FIIOLO	Tool Name	Brief Description	Source		
	Paperclips	Small and large paper clips used to test the strength of an electromagnet.	<u>Amazon</u>		
	Electrical tape	Electrical tape used to connect copper wire to the battery in the electromagnet building experiment.	<u>Amazon</u>		
	Insulated copper wire (20AWG)	Insulated copper wire used in the electromagnet building experiment.	Home Depot		
	Electricity poster	The Electricity poster includes a number of activities on topics including electricity safety, natural resources for electricity, and generating electricity across Canada.	Inside Ed_ website		
		4 Renewable & Alternative Energy			
	Wind turbine model	This easy-to-build wind turbine model demonstrates how wind energy is captured. Includes a light and sound board and multimeter to measure output.	<u>Vernier Canada</u>		
	Electrolysis Experiment	To use Hydrogen as an energy source, the Hydrogen needs to be extracted somehow. One way is through electrolysis - i.e. splitting water into Hydrogen and Oxygen. This simple experiment shows how the process of electrolysis works to produce Hydrogen.	Steel Thumb Tacks - <u>Amazon</u> Plastic Cup - <u>Amazon</u> 9V Battery - <u>Amazon</u> Baking Soda - <u>Amazon</u>		
	Solar panel	This 12V solar panel contains photovoltaic cells that capture solar energy and convert it to electrical energy.	<u>Amazon</u>		
		5 Expeience Fossil Fuels			
ISSUES & INNOVATIONS CARDS	lssues & Innovations Cards	Match the issue to the innovation to learn more about what's being done to lessen the impact of the fossil fuels industries on water, wildlife and air.	<u>Inside Ed</u> <u>website</u>		
6 Energy Efficiency & Conservation					
	Energy Meter	Measures the amount of electrical energy consumed by an electrical device.	<u>Amazon</u>		
	LED light bulb	A source of electrical light that uses one or more Light Emitting Diodes (<i>LEDs</i>) to produce light.	<u>Amazon</u>		
	Incandescent light bulb	A source of electric light that works by incandescence, which is the emission of light caused by heating a filament.	<u>Amazon</u>		
	Lux Meter	A device that measures the brightness of illumination (<i>light</i>) of a surface.	<u>Amazon</u>		
7 Energy Storage					
	Zecar	This model car uses the stored kinetic energy of its flywheel to scoot across the floor.	<u>Kikkerland</u>		
	Solar Car Model	This model car uses the stored energy of its battery to scoot across the floor.	Solar Car - <u>SunWind Solar</u> Battery Connector - <u>Kidder</u> AA Battery - <u>Amazon</u>		
8 Stewardship					
910	Infrared thermometer	An instrument that detects the infrared radiation emitted by an object to determine its temperature.	<u>Walmart</u>		

Brief Description

Tool Name