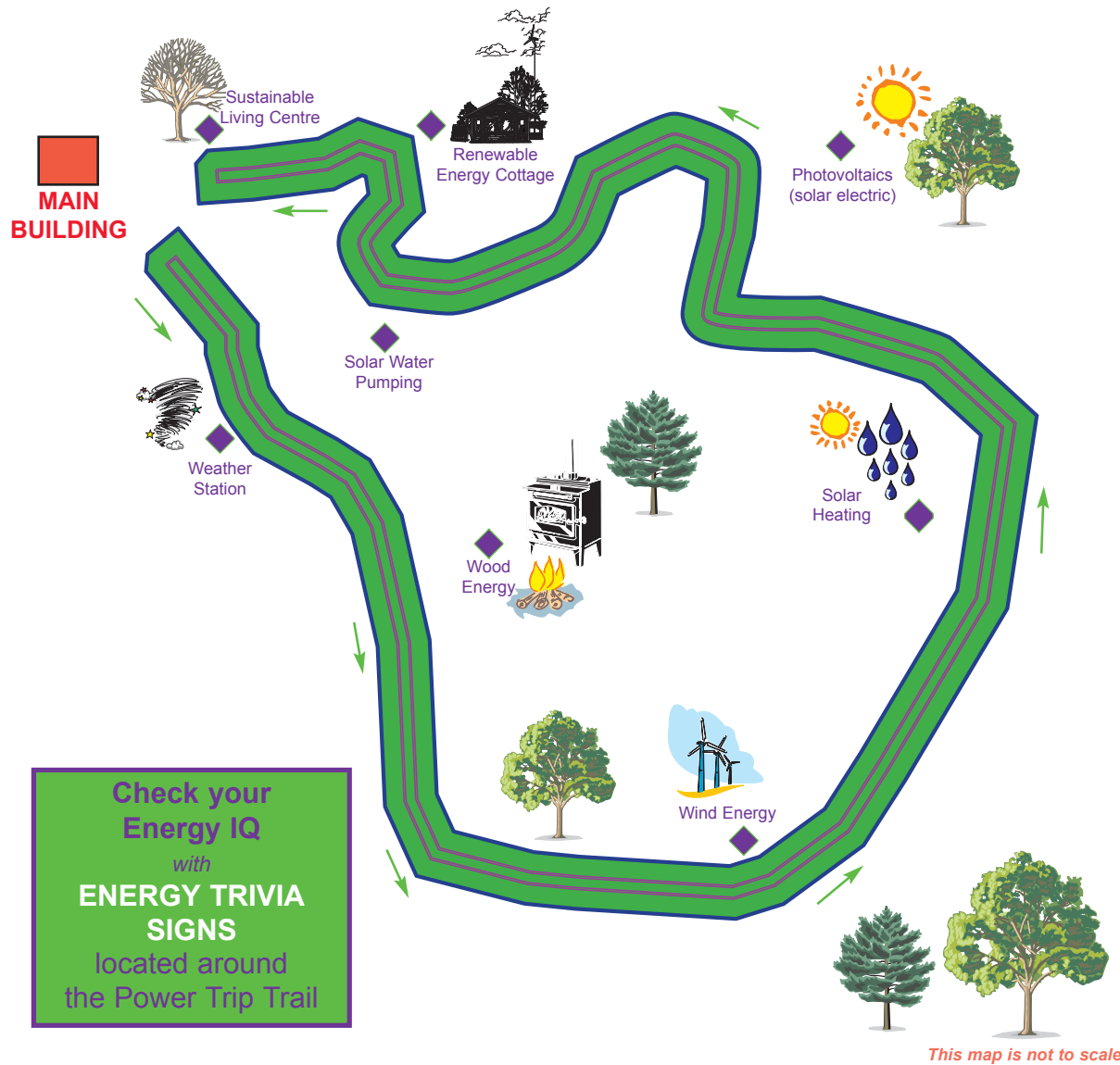


Power Trip Trail MAP



KORTRIGHT
Centre for Conservation

The Natural Place To Be

The Power Trip Trail is a part of the Toronto and Region Conservation's long term vision to develop a Centre for Sustainable Living at the Kortright Centre for Conservation.

Located on 350 hectares of the scenic Humber River Valley, the Kortright Centre for Conservation is one of Canada's leading environmental education facilities, promoting environmental awareness and stewardship.

KORTRIGHT IS OPEN DAILY

10:00am- 4:00pm

Follow the signs:

Take Highway 400 to Major Mackenzie Drive (at Canada's Wonderland), go west three kilometres to Pine Valley Drive, then south for one kilometre.

FOR MORE INFORMATION CALL

905-832-2289

OR VISIT OUR WEBSITES

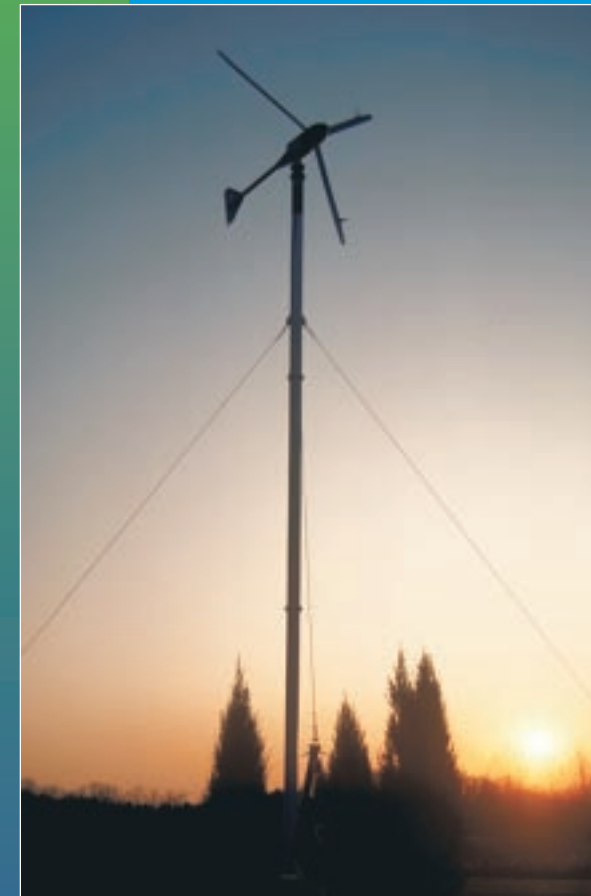
www.kortright.org
www.trca.on.ca



Ontario

ONTARIO POWER GENERATION

The **Power Trip** Trail



**KORTRIGHT
centre**

Conservation
for a Living City

DEMONSTRATIONS

The **Power Trip Trail** is a 1.6km trail that houses one of Canada's largest educational demonstrations of renewable energy and energy efficient technologies. Let Kortright's demonstrations and innovative programs provide you with the inspiration and knowledge to help you make informed decisions on important technology and lifestyle choices which can help reduce your environmental impact on the earth.



The unique **Green Works building demonstrates some innovative technologies in resource efficiency (conservation, recycling), waste water treatment, and renewable energy.**

Highlights
Combination ground source and solar heating system

Radiant floor heating
4 Kw photovoltaic system

Passive solar and energy efficient design

Wetland waste water treatment and grey-water recycling

Recycled steel construction



Wood Energy

Trees and plants are natural solar panels converting the sun's light energy through the process of photosynthesis into stored energy in the form of wood. This demonstration illustrates the importance of trees as a viable source of carbon neutral renewable fuel under proper forest management practices.

Highlights

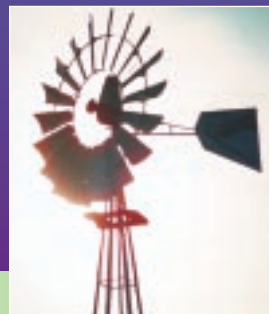
- 1 hectare hybrid poplar plantation
- Cord of wood display
- Wood energy BTU display

Wind Energy

Wind energy has been used for centuries for pumping water, grinding grain and generating electricity. See the past and present of wind technology and discover the future potential of the world's fastest growing source of new electricity.

Highlights

- 10 Kw grid connected wind turbine
- 3 Kw vertical axis
- 50 watt battery charging system
- American farm windmill



Solar Heating

Solar thermal systems convert the sun's energy into heat for domestic hot water or swimming pools. Discover how you can reduce your water heating costs by using a solar water heating system.

Highlights

- Solar Thermosyphon Water Heating System
- Solar Swimming Pool Heating System



Renewable Energy Cottage

Today many cottage owners and remote communities have no access to electricity. This cottage demonstrates several practical applications of renewable energy and energy efficient technologies.

Highlights

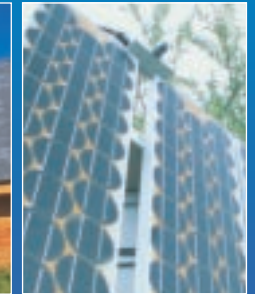
- Energy efficient cottage and appliances
- Passive Solar design
- 165 watt PV and 400 watt wind turbine battery charging system
- All season solar hot water system
- High efficiency wood and pellet stove
- Composting toilet
- Energy and water efficient landscaping

Photovoltaics (PV's)

Photovoltaic modules convert the sun's light energy directly into electricity which can be used to operate a variety of household electrical appliances. Discover some of the practical and potential new applications for photovoltaic modules. See Canada's first grid connect photovoltaic system and solar shingle demonstration.

Highlights

- 1 Kw roof mounted grid connected PV system
- 720 watt solar shingle PV system
- 1 Kw free standing PV system



Photovoltaic Water Pumping

Clean water is a necessity of life. See how photovoltaics can provide cost effective, reliable and efficient alternative for remote water pumping needs.

Highlights

- 120 watt PV Tracking System
- 30 metre, 24 volt, deep well pumping system



Education Programs

Highlights

Over 50 curriculums link educational programs for both elementary and secondary students

Solar and Wind Energy Workshops