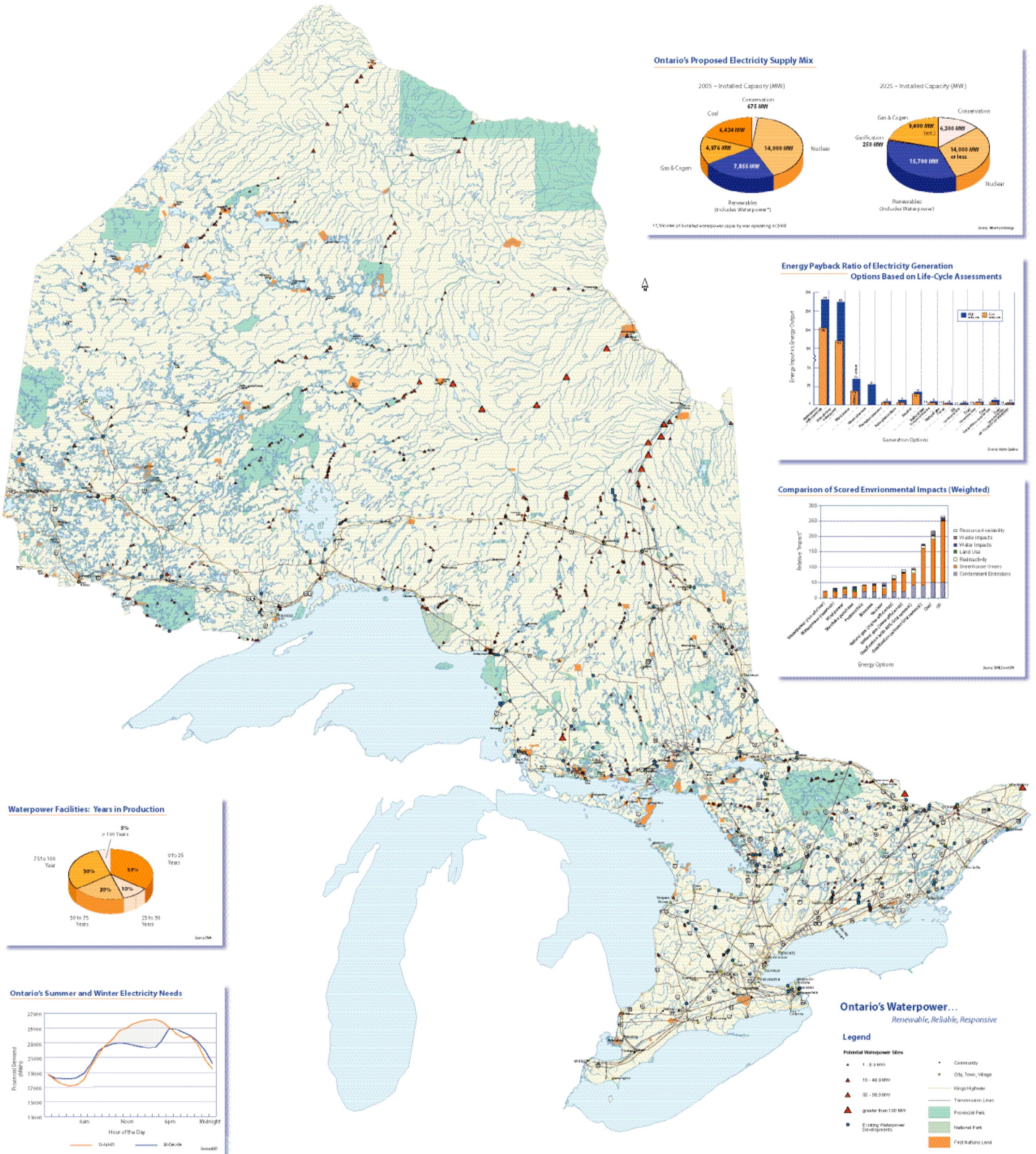
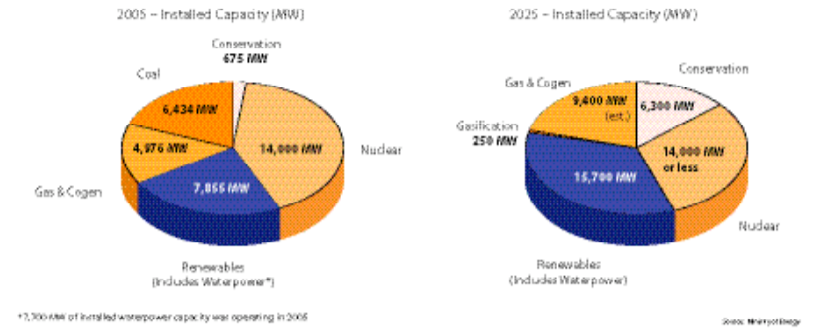


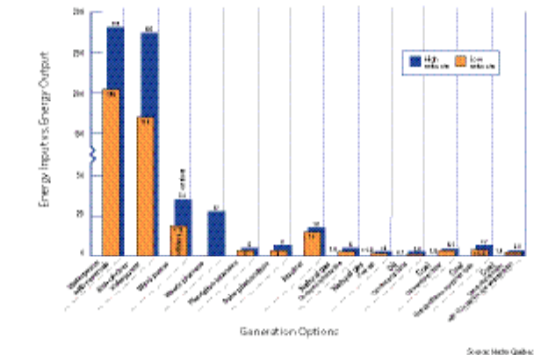
# Ontario's Waterpower... Renewable, Reliable, Responsive



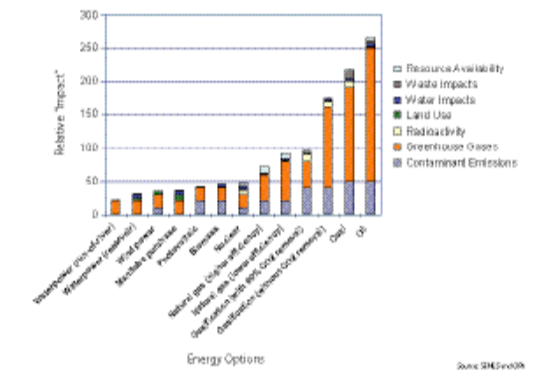
### Ontario's Proposed Electricity Supply Mix



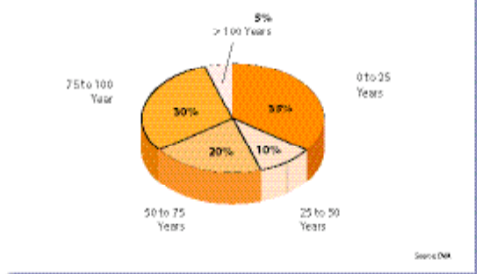
### Energy Payback Ratio of Electricity Generation Options Based on Life-Cycle Assessments



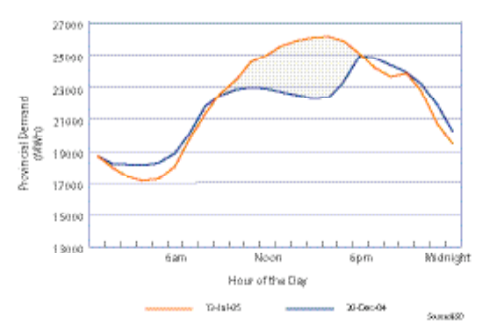
### Comparison of Scored Environmental Impacts (Weighted)



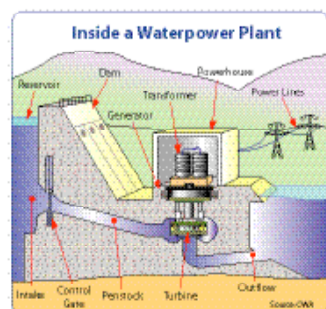
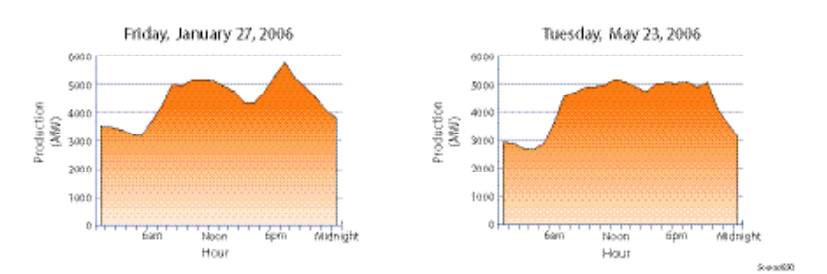
### Waterpower Facilities: Years in Production



### Ontario's Summer and Winter Electricity Needs



### The Flexibility of Waterpower Production



- #### Waterpower Facts
- Waterpower is Ontario's first source of electricity.
  - Waterpower facilities have the flexibility to store water to be used for generation during peak hours.
  - It is estimated that there is 4,000 to 6,000 MW of potential waterpower potential that could be developed in Ontario - more than a 50% increase.
  - The average amount of energy generated is comparable to the amount required to generate the same amount of energy produced from other power sources.
  - Waterpower is key to Ontario's energy security - it led the recovery of Ontario's electricity system after the 2003 "Blackout".
  - 1,000 MW in 1 hour = 1,000 MWh (MW)
  - 1,000 MWh in 1 hour = 1,000 MWh (MWh)
  - The average household uses 1,000 kilowatt hours (kWh) per month.

### Ontario's Waterpower... Renewable, Reliable, Responsive

**Legend**

**Potential Waterpower Sites**

- ▲ 1 - 9.9 MW
- ▲ 10 - 49.9 MW
- ▲ 50 - 99.9 MW
- ▲ greater than 100 MW
- Existing Waterpower Developments

- Community
- City, Town, Village
- Kings Highway
- Transmission Lines
- Provincial Park
- National Park
- First Nations Land

Scale: 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200

Map Source: Ministry of Natural Resources  
Projection: Lambert Conformal Conic  
Datum: North American Datum 1983

**Association Headquarters**  
40 University Avenue  
Suite 710  
Toronto, Ontario  
M5S 1T1

**Waterpower Office**  
380 Avenue Road  
Suite 210  
Richmond Hill, Ontario  
L4B 1L7

Toll Free: 866-743-1500  
Tel: 705-740-1500  
Fax: 705-740-1570  
www.owpa.ca