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ENERGY AND WATER FACTS (December 6, 2005)

- Total world energy use has risen four times since the Second World War.
- North America has 7% of the world's population and consumes 30% of the world's energy.
- World energy consumption is projected to rise by 59% between 1999 and 2020.
- Average Canadians account for about 28% of Canada's total greenhouse gas (GHG) emissions. Fifty per cent of GHG are produced in the home.
- Canada's per capita emissions rank second in the world.
- Canada's total carbon dioxide emissions in 2001 were approximately 720 million tonnes.
- In 2001, Canada's population was 30 million resulting in 24 tonnes of emissions per capita.
- The Kyoto Protocol requires Canada's total annual emissions be reduced to 570 million tonnes by 2010. Canada's population is projected to be 35 million by that time. The annual overall per capita emissions must be reduced to 16 tonnes or by 33% to reach this goal. This is more than the 20% (or one-tonne) that the federal government is asking Canadians to eliminate.
- By making wise consumer choices, individual greenhouse gas (GHG) emissions can be reduced by one tonne or about 20%.
- Air leakage represents between 25% and 40% of the heat loss from an older home.
- A low-flow showerhead uses 60% less water than standard models and can save up to 30% on energy and water bills.
- In 1997, 50% of Canadians made repairs to their homes at an average cost of \$1712 per household but only 5% made energy efficient improvements.
- Based on a study of 400 homes in southern Ontario, the air leaks in the average home equalled 1.5 square feet. That is like leaving a small window open year round.
- The average energy consumption per house can be reduced by about 25% and CO² emissions cut by 3.8 tonnes per year per house.
- Only about 19% of Canadians use energy-efficient compact fluorescent light bulbs.
- Installing fifteen energy-efficient light bulbs reduces GHG emissions by almost 500 kg. of CO² per year and saves over \$250 over a 5-year period.
- Approximately 25% of the world's fresh water is in the lakes and rivers of Canada.
- Each Canadian uses about 350 litres of water each day—just indoors. Of that, 40% is flushed down the toilet, and another 35% is used in showers and baths.
- On average, 14% of municipal piped water is lost in pipeline leaks—up to 30 per cent in some communities.
- Less than 3% of municipally treated water is used for drinking.
- Fifty per cent of all municipally treated water is used during the summer months for watering lawns and gardens.

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