



Canadian Nuclear Association

The Power of Nuclear Energy In Ontario

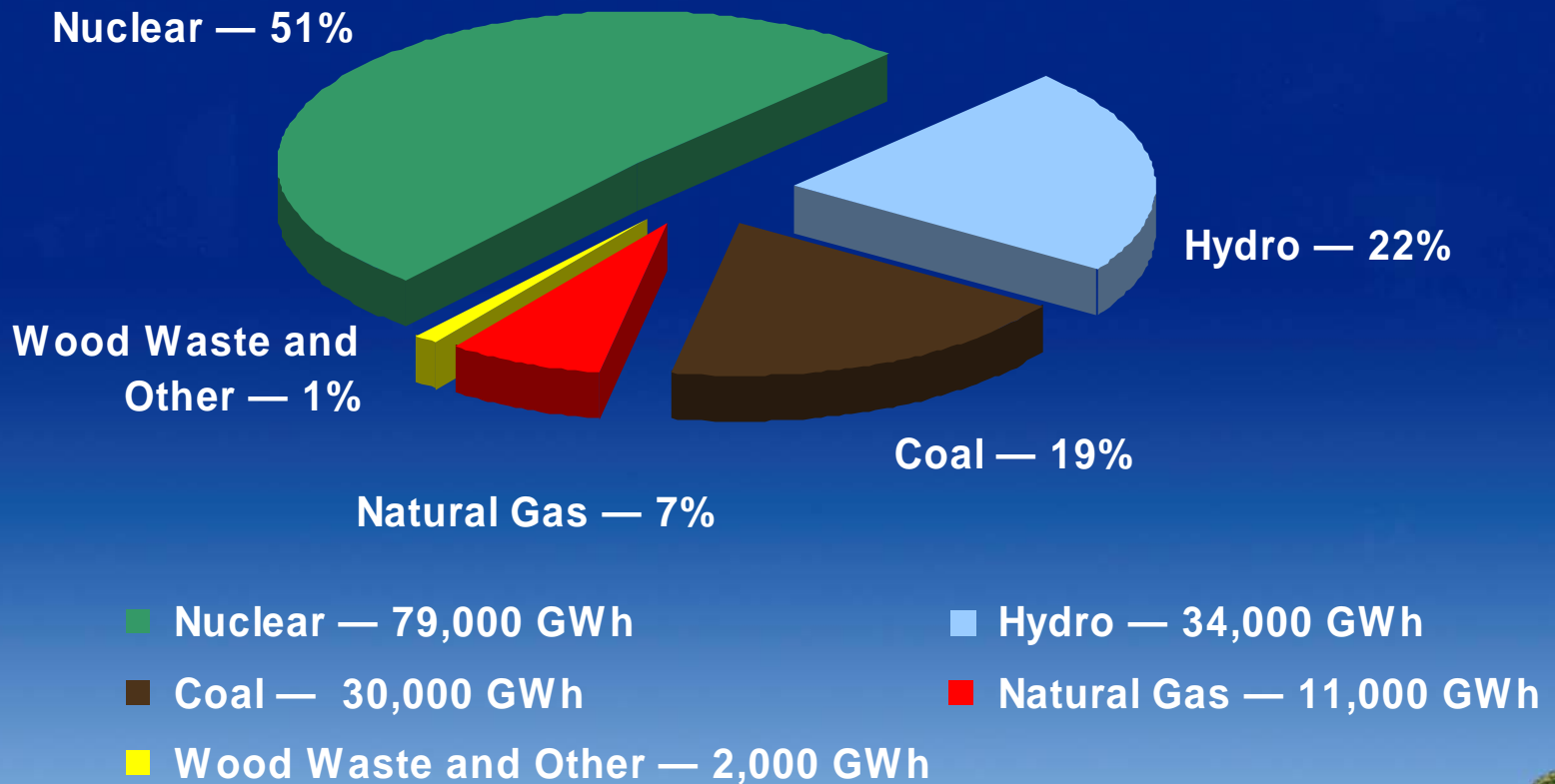
*Murray Elston, President & CEO
Canadian Nuclear Association*

*The Canadian Association of Members of
Public Utility Tribunals
Ottawa, May 16, 2006*

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Electricity Sources in Ontario (2005)



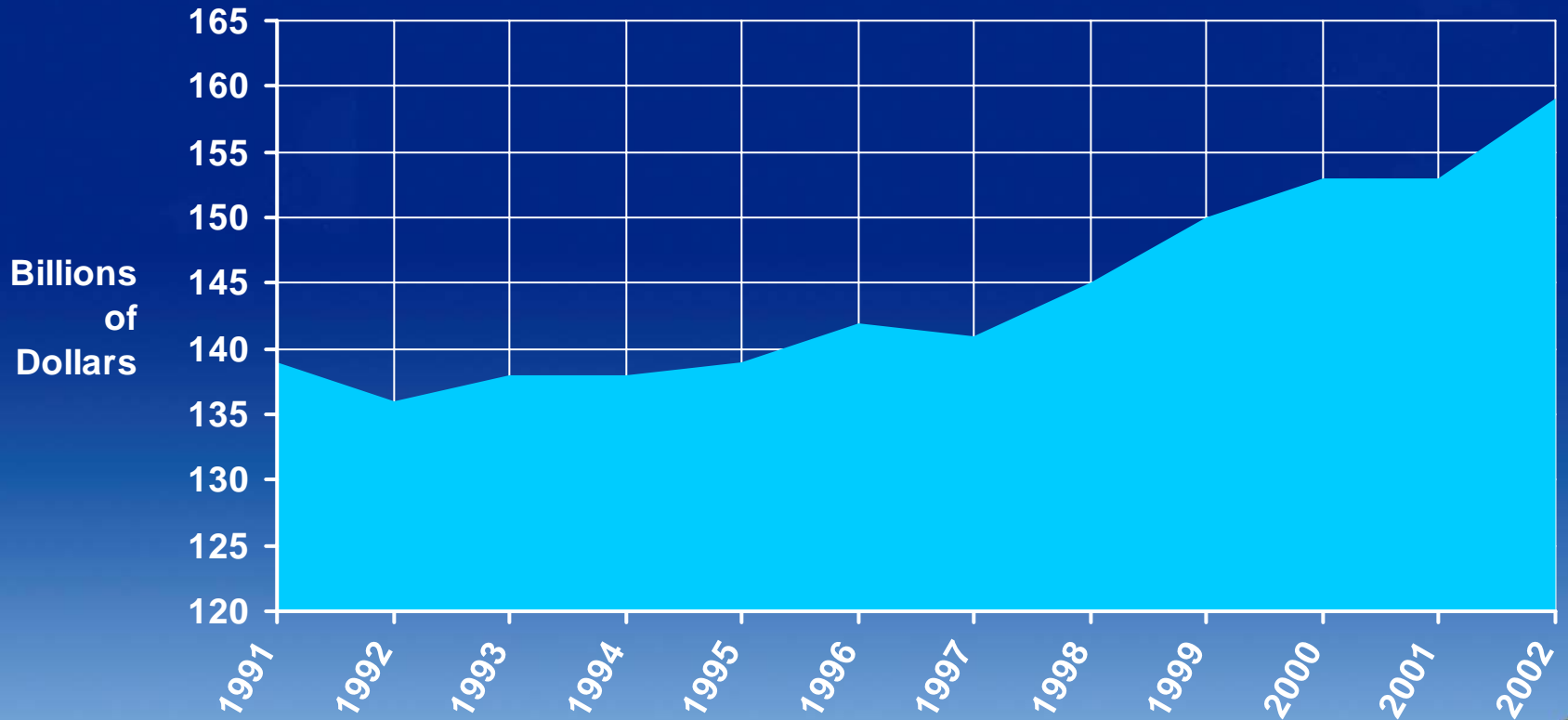
Source: IESO (2005)



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Electricity Consumption in Ontario



Source: IESO

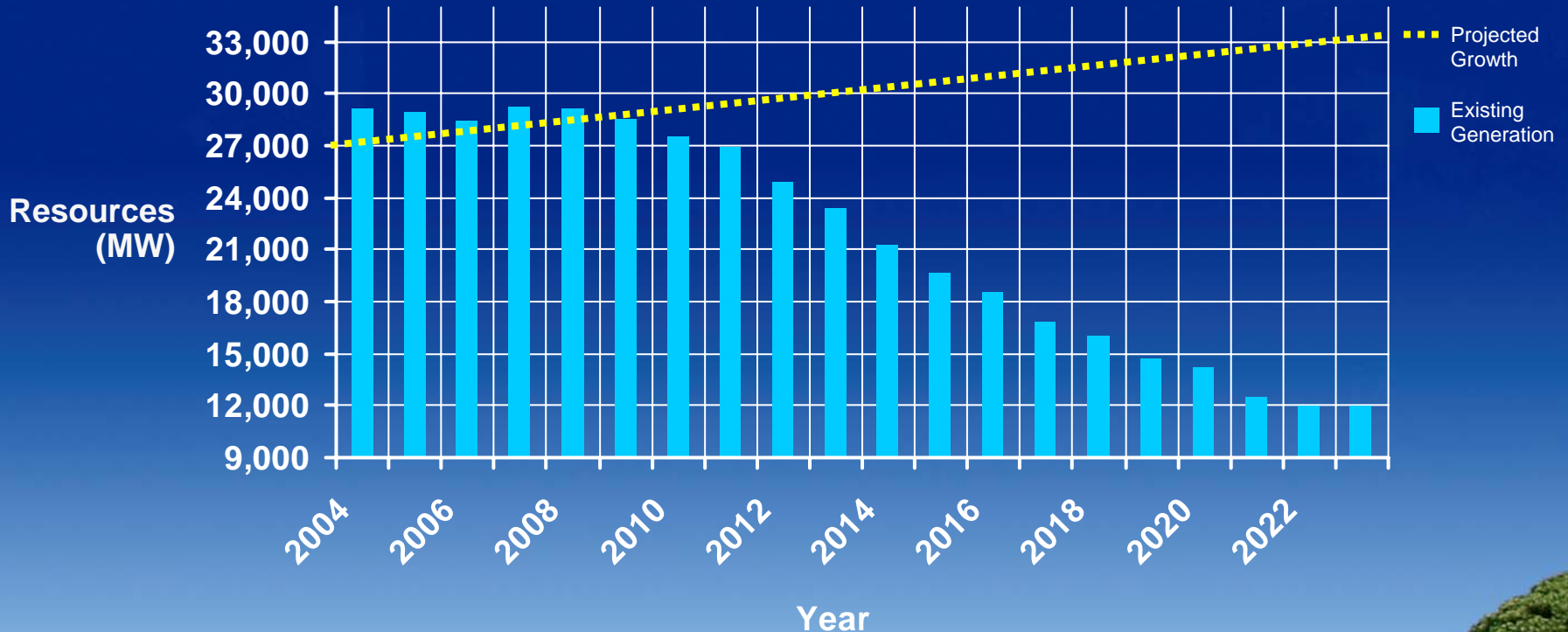


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Ontario's Widening Supply Gap

Existing Generation vs. Projected Growth



Source: IESO (2004)

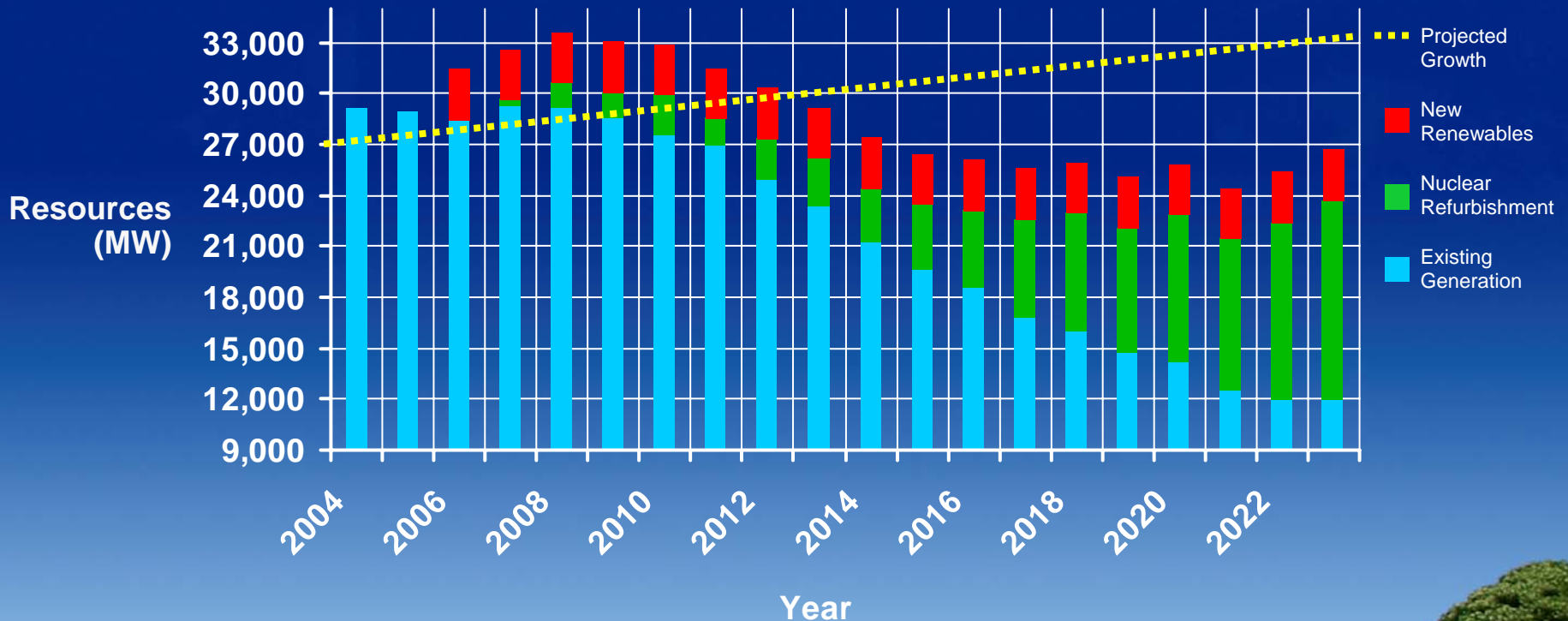


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Renewables Insufficient

Renewable Potential added to Nuclear Refurbishment

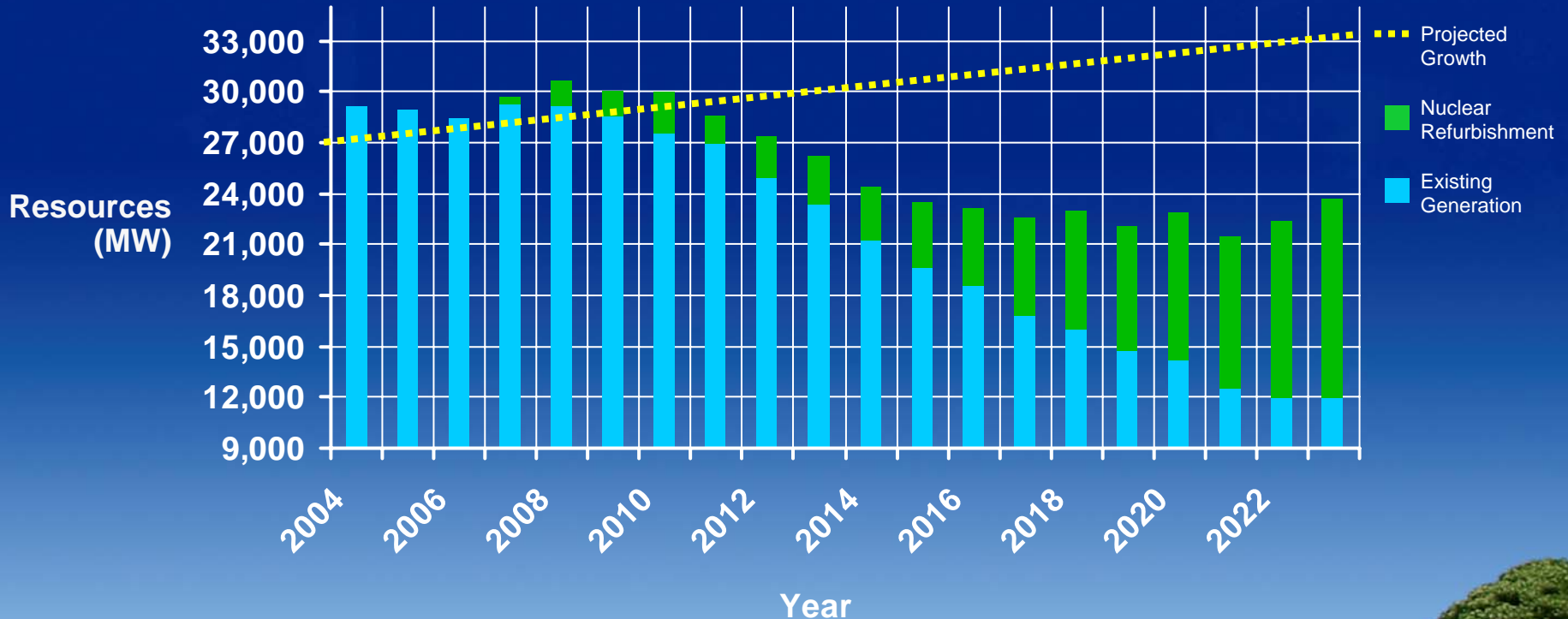


Source: IESO (2004)



Refurbishment is Essential

Nuclear Refurbishment provides some of needed capacity



Source: IESO (2004)



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CANDU Nuclear Reactor Performance (Ontario - 2005)

Reactor	In Service	Capacity (MW)	Performance In 2005 (%)	Lifetime Performance (%)
Pickering 4	1973	542	66.4	67
Pickering 5	1983	540	52.6	73.4
Pickering 6	1984	540	63.3	76.9
Pickering 7	1985	540	97.8	80.2
Pickering 8	1986	540	93.6	76.6
Bruce 3	1978	805	74.9	61.5
Bruce 4	1979	805	83.3	59.9
Bruce 5	1985	840	74.1	82.2
Bruce 6	1984	840	79.2	79.4
Bruce 7	1986	840	70.2	82.5
Bruce 8	1987	840	99.4	81.2
Darlington 1	1992	935	96.1	83.2
Darlington 2	1990	935	79	73.7
Darlington 3	1993	935	98.7	85.5
Darlington 4	1993	935	85.6	84.5
Total/Average		11,412	80.9	76.5



Source: COG CANDU/PHWR Performance Indicators, December 2005

Environmental Performance

Nuclear power means low carbon emissions:

Coal	975 g/kWh
LNG Thermal	608 g/kWh
LNG Combined Cycle	519 g/kWh
Solar PV	53 g/kWh
Wind	29 g/kWh
Nuclear	22 g/kWh
Hydroelectric	19 g/kWh

Source: Japanese Central Research Institute, 2002



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