

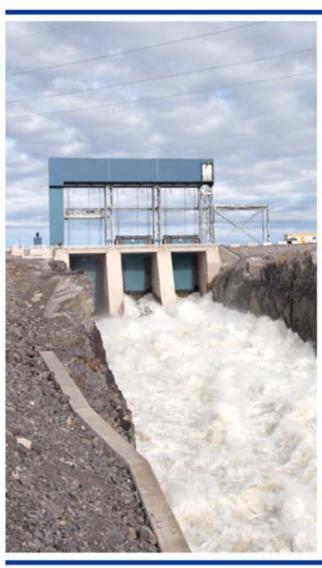
BUILDING ON THE SUCCESS STORY

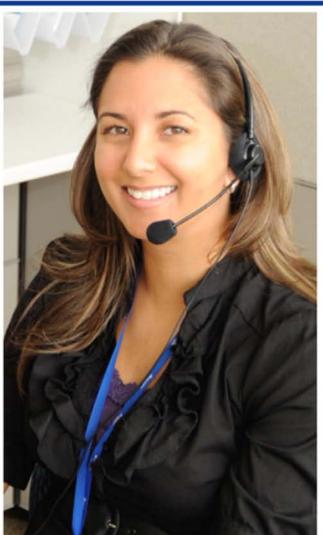
- THE ROAD AHEAD FOR MANITOBA HYDRO -

Scott A Thomson, CA President and CEO, Manitoba Hydro

Winnipeg Chamber of Commerce September 19, 2012





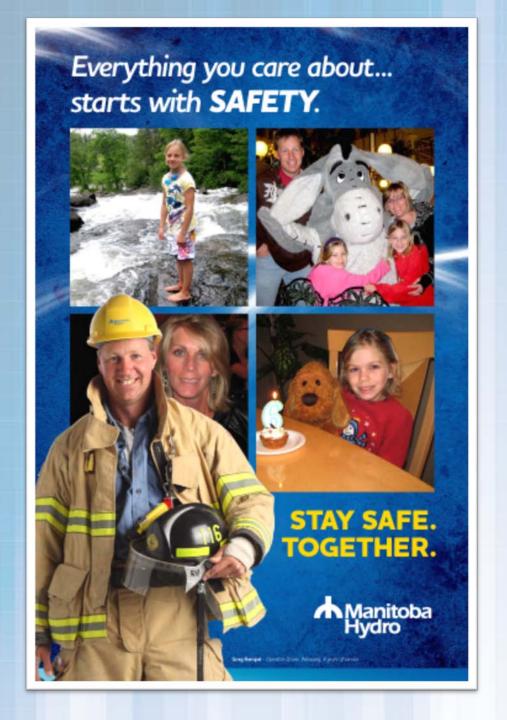










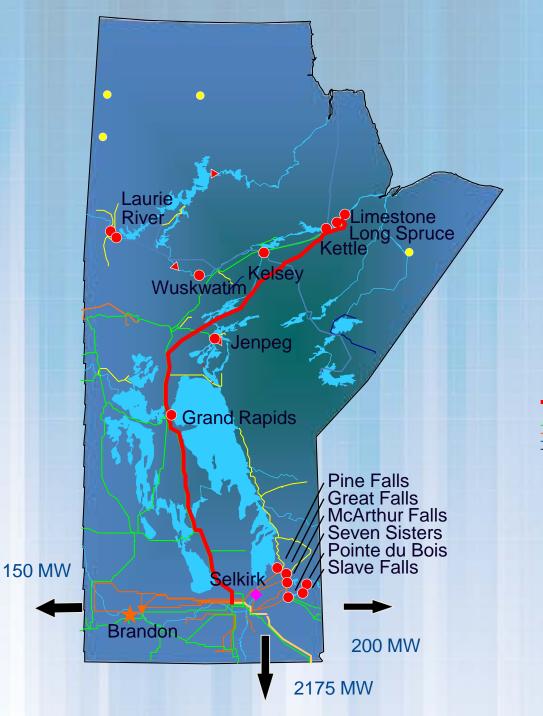


Manitoba Hydro Profile

- 6 471 employees
- 542 282 electricity customers
- 267 542 natural gas customers
- Exports to three wholesale markets in Canada + Midwest U.S.
- Electricity rates lowest in North America

Manitoba Hydro Profile (Cont'd)

- As at March 31, 2012
 - Net Income \$61 million
 - Total assets of \$13.8 billion
 - Retained earnings \$2.5 billion
 - Generating capacity 5500 megawatts
 - 98% of electricity produced (30 billion kilowatt hours) is clean renewable hydropower generated at 15 generating stations



Generating Stations and Interconnections

2011/12 - Energy

80% Nelson R.

9% Wpg. R.

7% Sask. R.

3% Wind

1% Thermal & Imports

HVDC

Other Transmission

Selkirk -Natural Gas

Brandon – Coal

Brandon – Gas Comb.

Turbine

Control Structures

Diesel Sites

Hydraulic G.S.'s

Economic Impact of Manitoba Hydro

Operations

- 16,580 person-years of employment annually
- \$1.4 billion of Manitoba's gross domestic product

Employment Impact of New Generation and Transmission Projects

- Keeyask G.S. 9,170 person-years of direct and indirect employment
- Bipole III Transmission 8,782 person-years of direct and indirect employment

Stop drafts and save.

Small changes add up.



Where can you save energy?

Small changes add up.



Fix leaks and save energy.

Small changes add up.

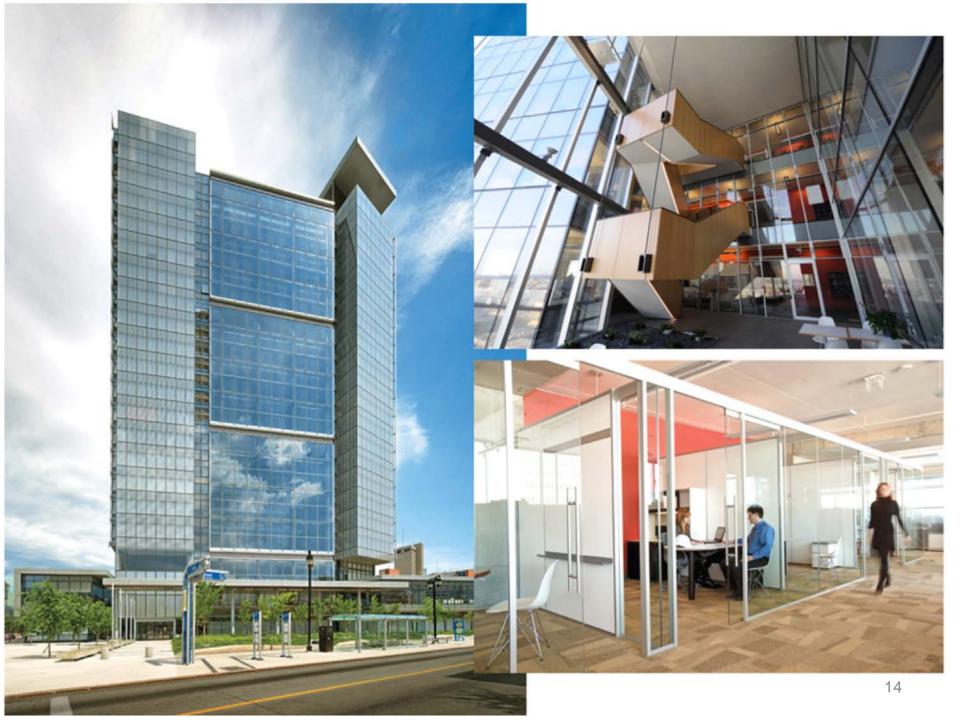














Where do we go from here?

New Generation required

Rebuild Electrical Grid

Adjust to Reduced Export Revenue

\$20 billion investment in new generation and infrastructure

Development Plan

New Hydro plus Exports



CONAWAPA 1485MW

Independent Reviews

Need for and Alternatives to (NFAT) and Environmental Reviews

Investment in existing infrastructure

Canada-wide issue

\$350 billion required over the next 20 years





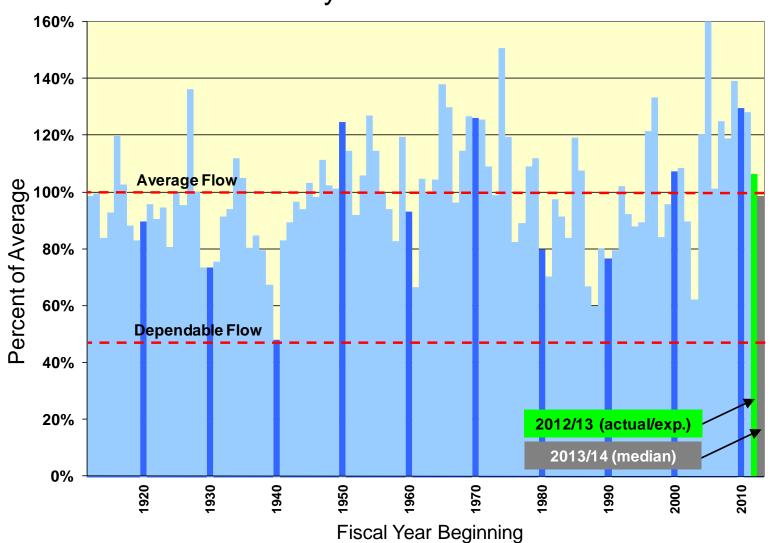




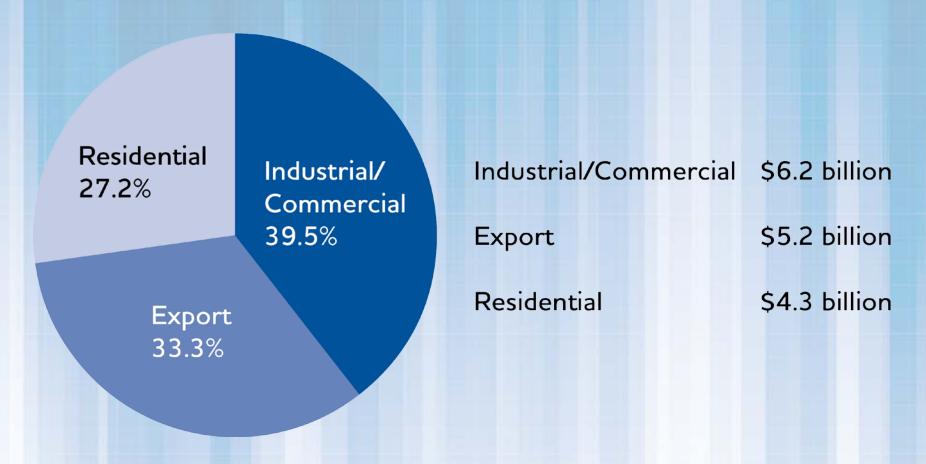
Exports

Variability of Water Supply





Revenue Sources - Electricity 2002/03 - 2011/12



Firm & Short-Term Export Sales vs. Manitoba Industrial Customers

(Average Rate per Kilowatt Hour)



Electricity Rate Increases 1970s

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1974 - 20.6%
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1975 - 19.2%

1976 - 19.8%

1977 - 15.0%

1978 - 14.9%

1979 - 14.4%

Rate Increases

- Moderate
- Predictable

Rate Increases

Ontario

"Over the next five years, residential Electricity prices are expected to rise by 46%" Ontario government news release November 18, 2010

BC Hydro

"Rate to increase 17% over 3 years." CBC BC, May 23, 2012

SaskPower

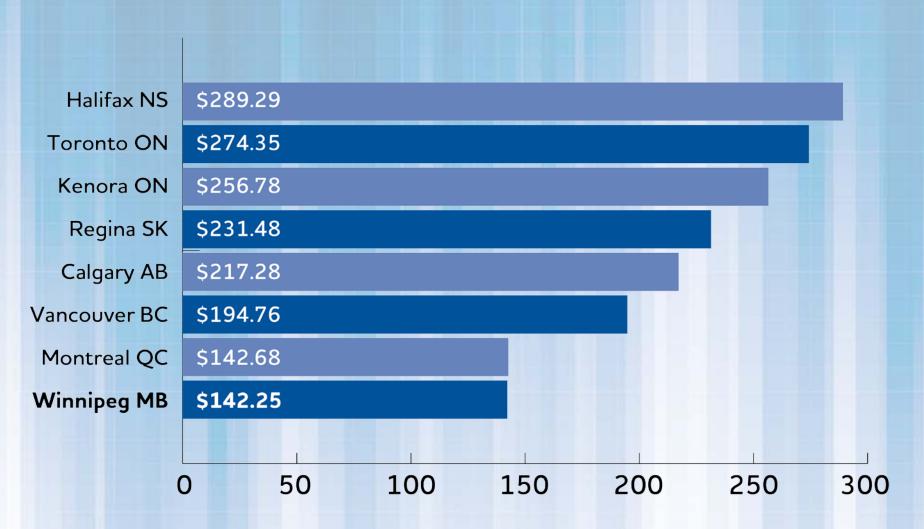
Seeking 4.9% increase for 2013.

4.5% increase 2010

8.5% increase 2009

SaskPower 2013 Rate Application; Saskatchewan Rate Panel Review website

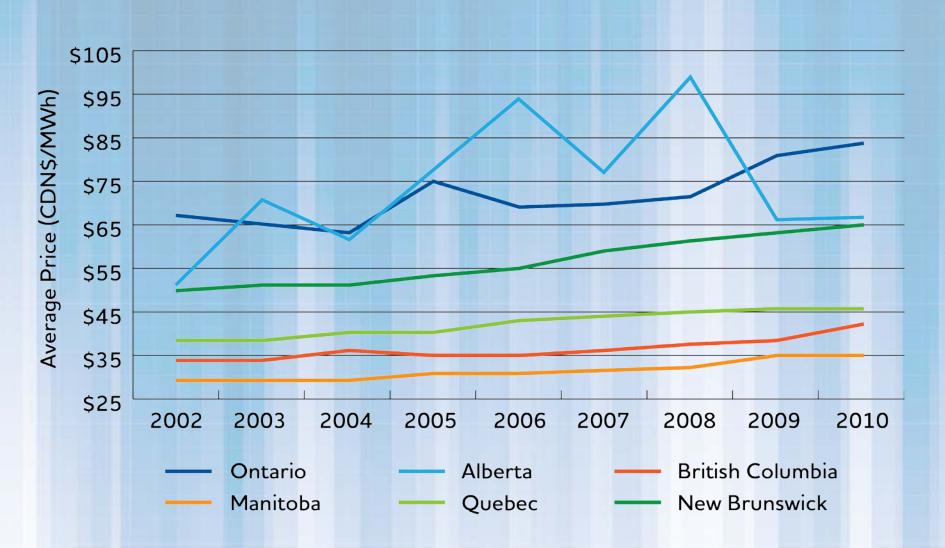
Residential Service Rate Comparisons One month bill (May 2012) for 2000 kWh



General Service Rate Comparisons One month bill (May 2012) for 5000 kWh



Industrial Rates in Canada



Controlling Costs

POINTE DU BOIS - 1911

GREAT FALLS - 1928

SEVEN SISTERS - 1931

SLAVE FALLS - 1931

Uncertainty & Risk Manitoba Load Growth Interest Rates Inflation **Exchange Rates Fossil Fuel Prices Environmental Policies Construction Costs**

Will gas stay cheap?

Natural Gas Dynamics

- Shale gas expansion
- LNG exports
- Replacement for coal powered generation
- Increased demand with economic recovery
- Use as transportation fuel



Investment 1968-80 vs. today's planned development

1968-1980

2012 going forward







Working together to build The energy network of tomorrow

