



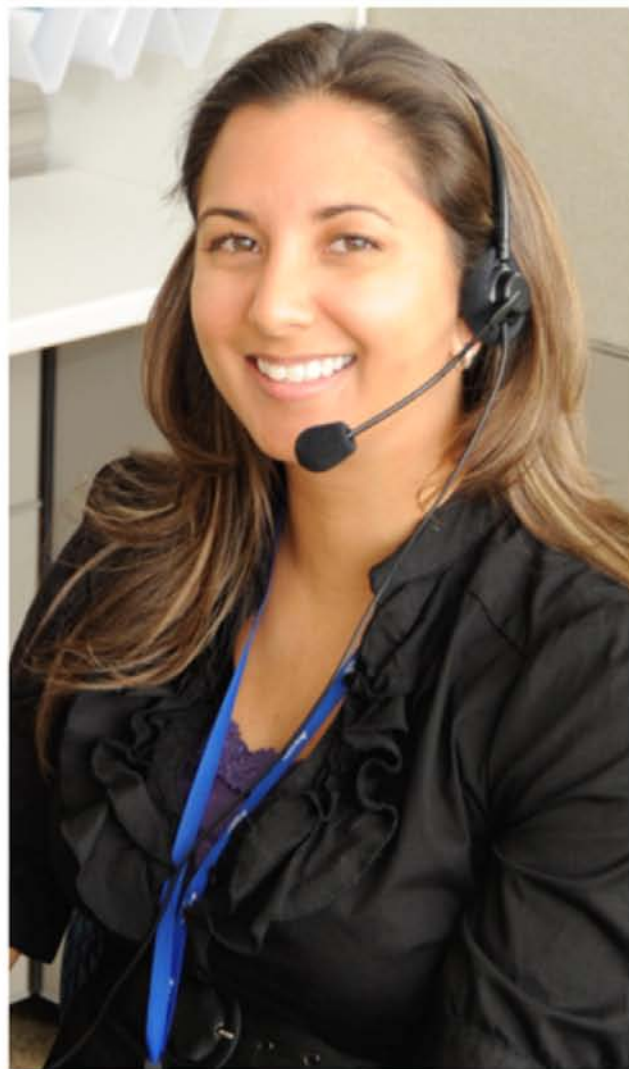
TRANSMISSION & DISTRIBUTION MAINTENANCE MANAGEMENT 37TH ANNUAL CONFERENCE -

Scott A Thomson, CA
President and CEO, Manitoba Hydro
September 11, 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.

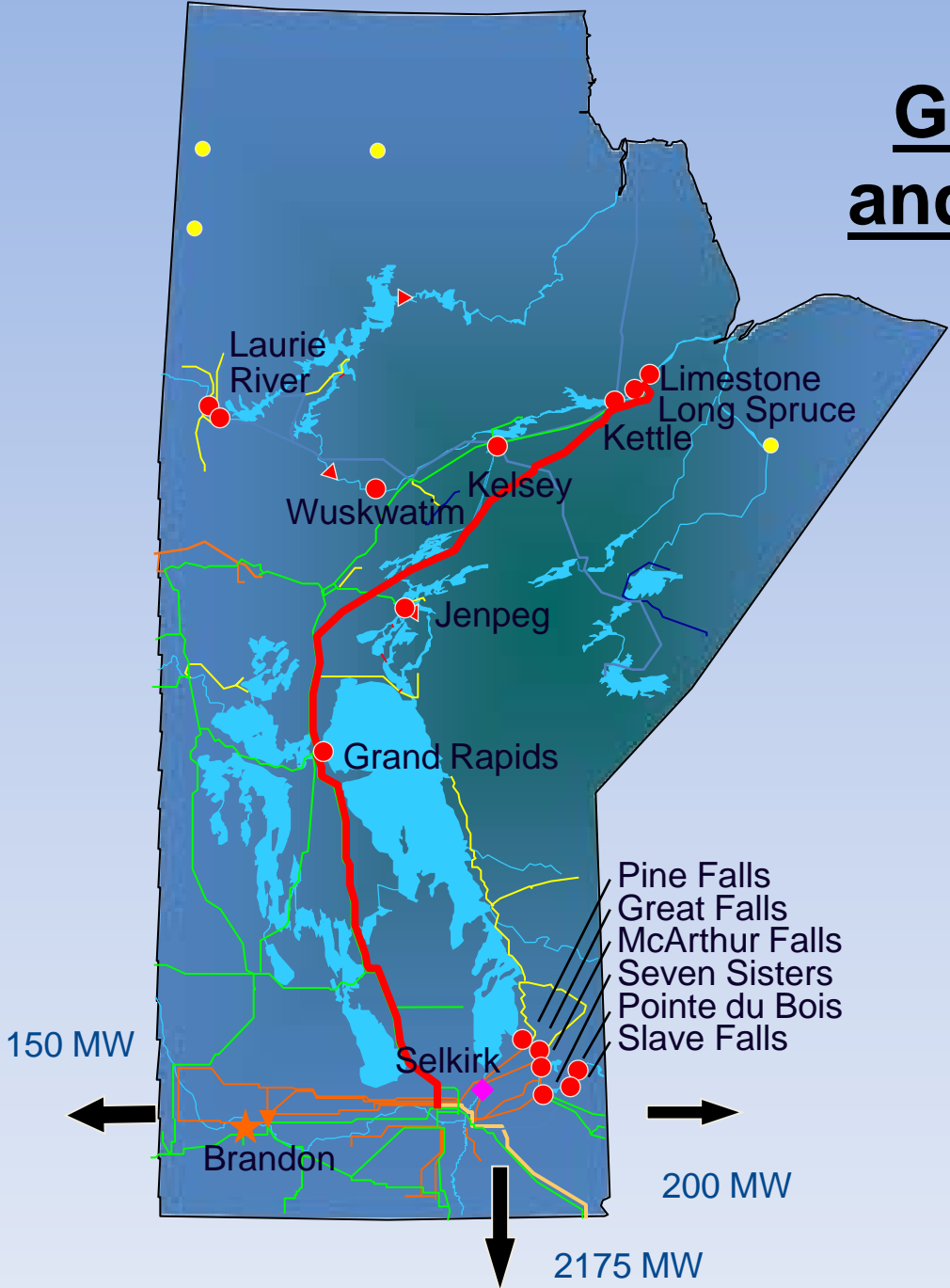
7% Sask. R.

3% Wind

1% Thermal & Imports

 HVDC
 Other Transmission
 Other Transmission

 Selkirk -Natural Gas
 Brandon – Coal
 Brandon – Gas Comb. Turbine
 Control Structures
 Diesel Sites
 Hydraulic G.S.'s



150 MW

200 MW

2175 MW

Laurie River

Limestone
Long Spruce
Kettle

Wuskwatim

Kelsey

Jenpeg

Grand Rapids

Pine Falls
Great Falls
McArthur Falls
Seven Sisters
Pointe du Bois
Slave Falls

Selkirk

Brandon

Safety

- **Our number one goal is to improve safety in the work environment**

Everything you care about...
starts with **SAFETY.**



**STAY SAFE.
TOGETHER.**

 **Manitoba
Hydro**







WUSKOWATIM

Powering OUTLOOK



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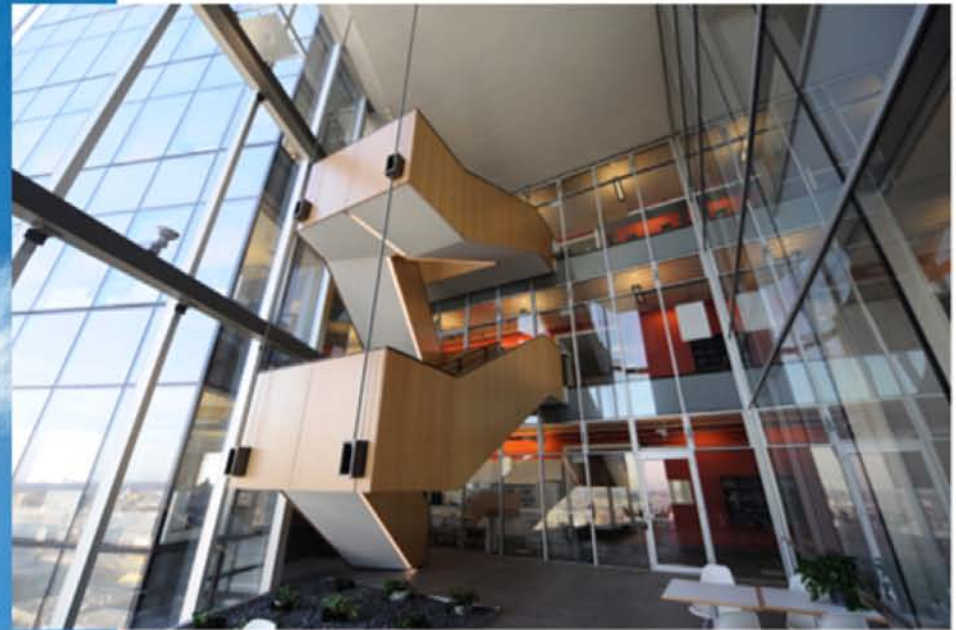


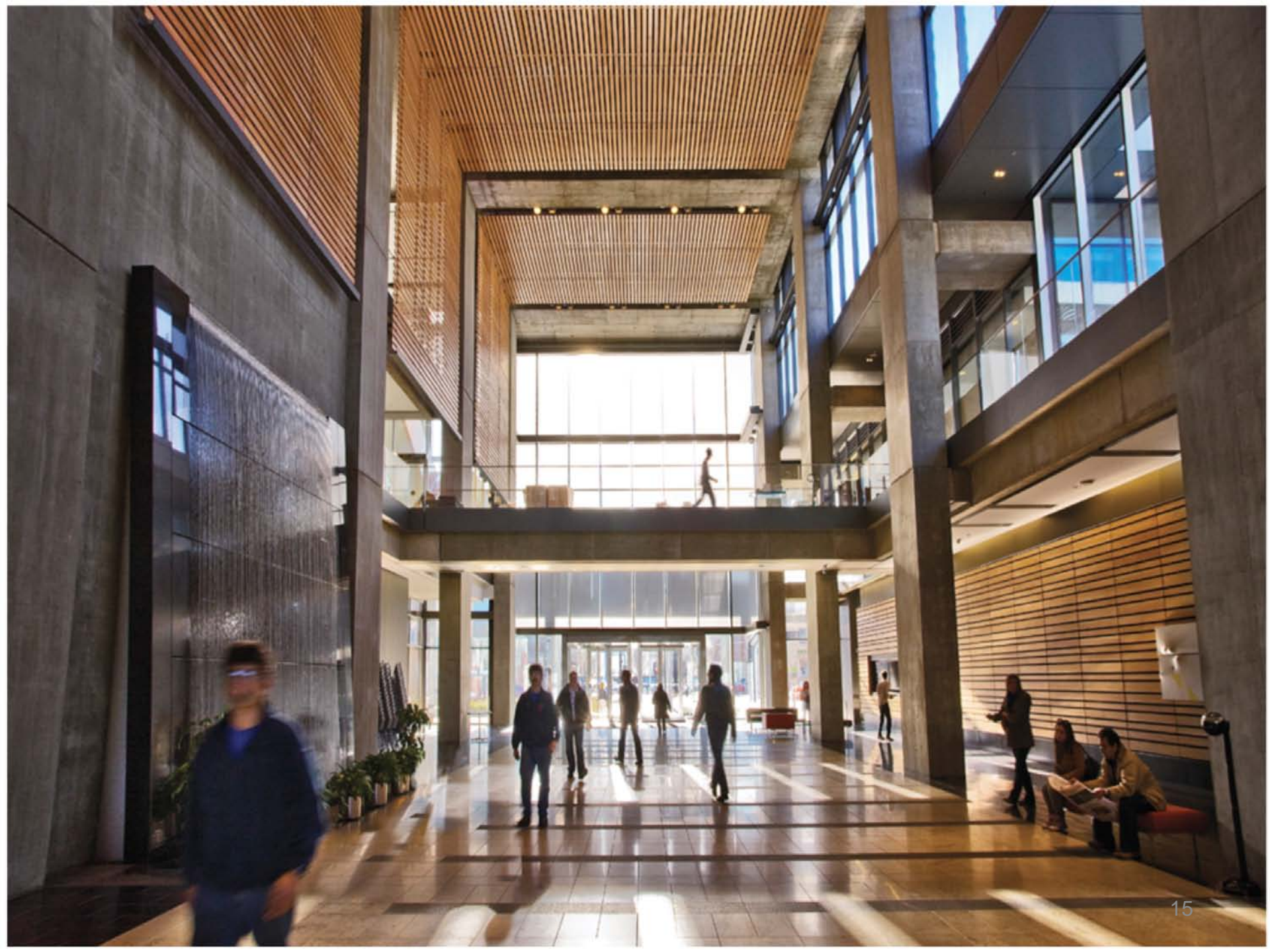
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Where do we go from here?

Where do we go from here?

- **New Generation required**
- **Rebuild Electrical Grid**
- **Adjust to Reduced Export Revenue**

**\$20 billion investment over
10 years in new generation
and infrastructure**

Development Plan

New Hydro plus Exports



WUSKWATIM 200MW

A photograph showing the Wuskwatim dam and power station. The dam is a long, low concrete structure with a spillway on the right. The power station is a large, blue building with a tall chimney stack. The background shows a forested area under a cloudy sky.



KEEYASK 695MW

An aerial rendering of the Keeyask dam and power station. The dam is a long concrete structure with a spillway. The power station is a large, grey building with a tall chimney stack. The surrounding area is a mix of water and land with some trees.



CONAWAPA 1485MW

An aerial rendering of the Conawapa dam and power station. The dam is a long concrete structure with a spillway. The power station is a large, grey building with a tall chimney stack. The surrounding area is a mix of water and land with some trees.



Investment in existing infrastructure

Canada-wide issue

**\$350 billion required over the
next 20 years**



1 000 000

**Need to replace 117 000 poles
over 20 years for \$400 million**





SUB-STATION No 1

**\$630 million for 20 stations
over 10 years**

CITY ELECTRIC
POWER MISSISSIPPI

BiPole III Plan



- 500 kV HVDC Transmission Line of approximately 1384 km
- Keewatinooow 2000 MW converter station
- Riel 2000 MW converter station
- Hearing in early fall with licence to follow
- ISD 2017

Decade of Investment

- **New Hydro Plants**
- **Infrastructure Renewal**
- **Moderate, predictable rate increases**

**Working together to
build
the energy network
of tomorrow**