



Alternative and Renewable Energy  
Policy in Alberta  
Alberta Department of Energy

October 28, 2013

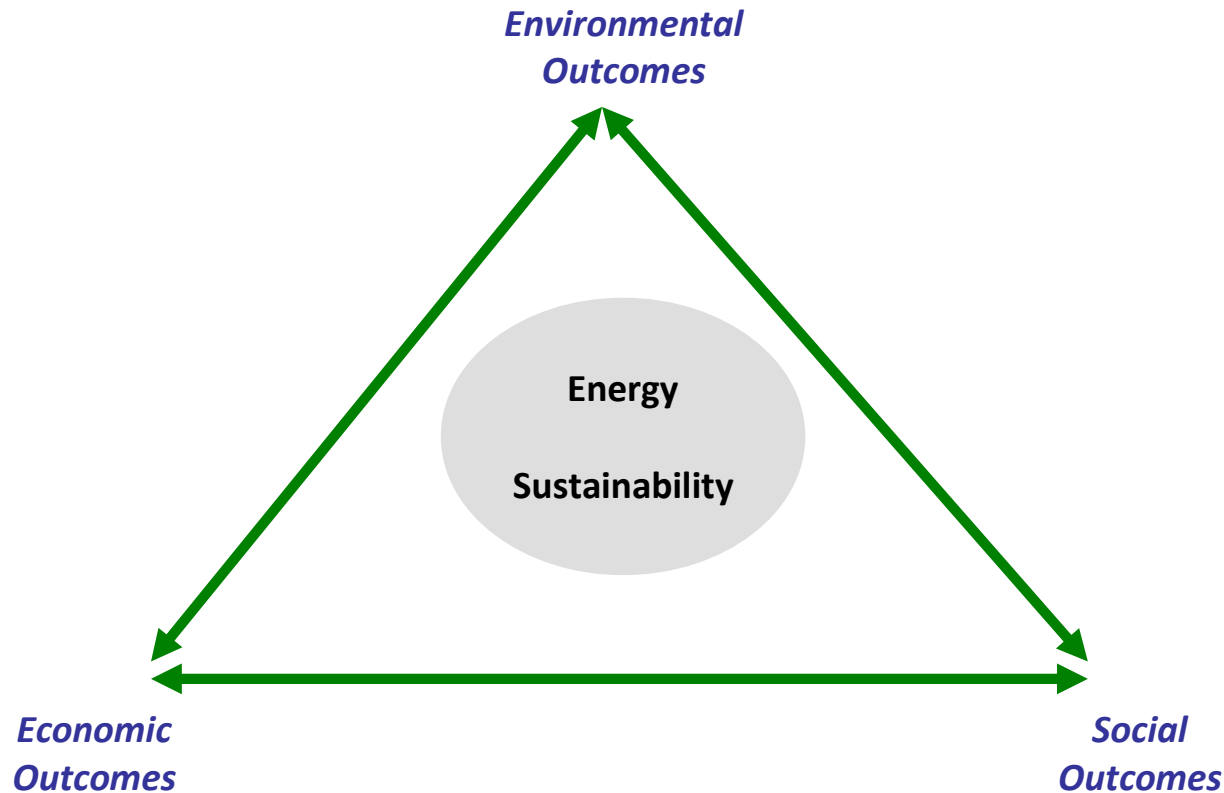
Synergy Alberta Conference 2013

# Premier Redford's Vision for Sustainable Energy

“The Ministers of Agriculture and Rural Development, Energy, and [Environment and Sustainable Resource Development] will design and implement an initiative to make the Province of Alberta the national leader in energy efficiency and sustainability.” (Nov 2011)

# Energy Sustainability

- Alberta's energy system should achieve a sustainable balance of environmental, social and economic outcomes



# Alternative & Renewable Energy Policy links to 3 key strategies

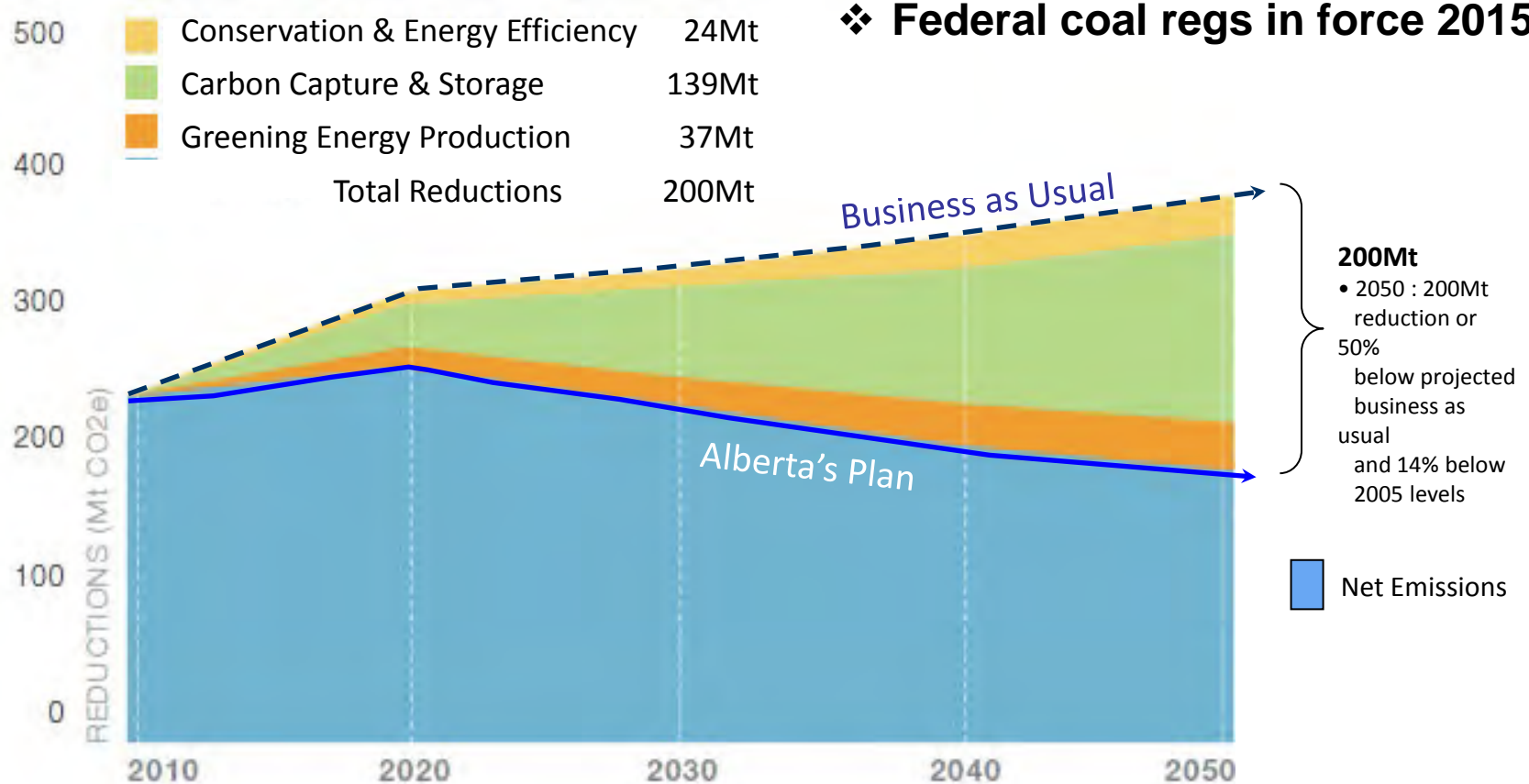
Climate Change Strategy (2008)

Provincial Energy Strategy (2008)

Canadian Energy Strategy (in progress)

# Climate Change Strategy (2008)

- ❖ SGER expires 2014
- ❖ Federal coal regs in force 2015



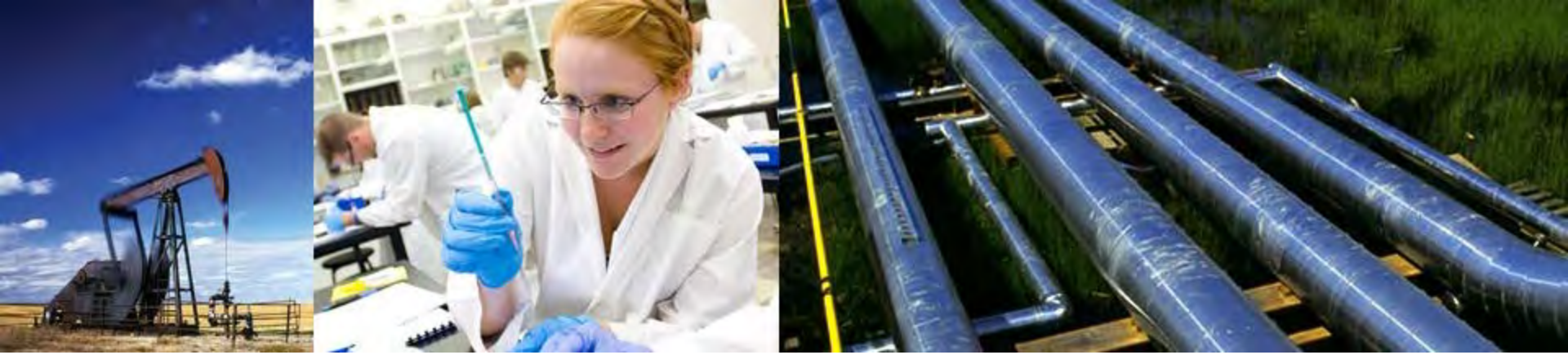
Source: Alberta 2008 Climate Change Strategy

# Provincial Energy Strategy (2008)

## Outcomes Identified

- Clean Energy Production
- Wise Energy Use
- Sustained Economic Prosperity





# Canadian Energy Strategy

- Lead by the Council of the Federation (COF)  
*[www.councilofthefederation.ca/](http://www.councilofthefederation.ca/)*
- Participation by member Provinces and Territories is voluntary. Government of Canada is not a member of COF.
- Alternative and renewable energy development is one of ten themes.

# Premier Redford's Vision for the Canadian Energy Strategy

“My objective is to hand over a healthy Alberta to future generations. This ideal guides my thinking on energy issues.”



# Development of Alberta's Alternative and Renewable Energy Policy Framework



# A&R Energy Scope

End Use	Renewable Energy	Alternative Energy
	Wind, solar, geothermal, biomass, etc.	Lower emissions than conventional (e.g., cogeneration, fuel switching)
<b>Electricity</b>	★	★
<b>Transportation</b>	★	★
<b>Heat</b>	★	★

# Build on Experience

## Climate Change Strategy

- Climate Change and Emissions Management Act
- Specified Gas Emitters' Regulation/ Carbon Offsets
- Climate Change Emissions Management Corporation

## Electricity Market Design and Regulation

- Alberta's Competitive Electricity Wholesale Market (implemented 1995-1998)
- Integration of wind since market re-design
- Micro-Generation Regulation (2009 - )
- Investment in Transmission
- Small Power Research and Development Program (1988-1994)

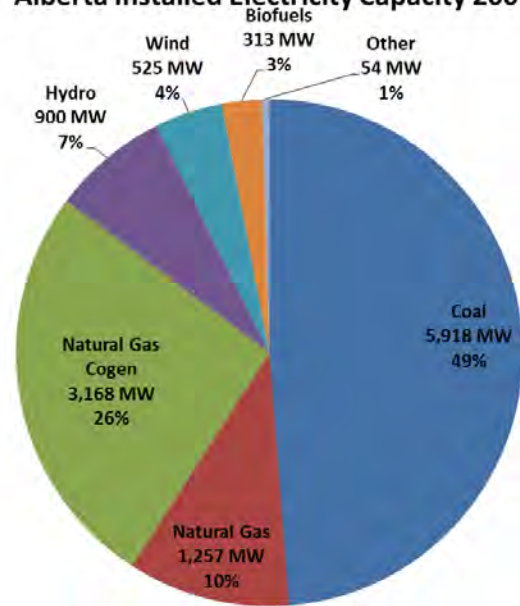
## Bioeconomy

- Fibre Road Map (2007 - )
- Agriculture Growing Forward Programs (2008 - )
- Renewable Fuels Standard Regulation (2011 - )
- Bioenergy Grant Programs (2006 - 2016)
- Alberta Forest Products Road Map (2012)
- Alberta Innovates - BioSolutions



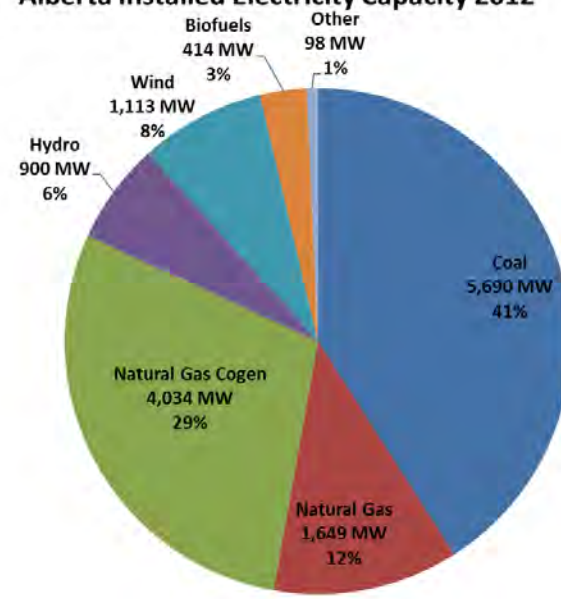
# Alberta's Electric Generating Capacity

Alberta Installed Electricity Capacity 2007



Total Electricity Capacity: 12,135 MW

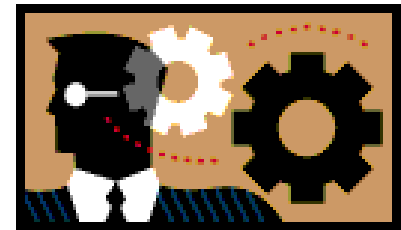
Alberta Installed Electricity Capacity 2012



Total Electricity Capacity: 13,898 MW

# Approach

- Understand Alberta context
- Identify barriers and opportunities
- Identify opportunity focus
- Identify potential policy actions
- Cost-benefit analysis
- Stakeholder engagement
- Government decision



# Policy Toolkit

- Regulatory mechanisms
- Market mechanisms
- Financial mechanisms
- Labour and skills development
- Public education and awareness
- Investment in infrastructure
- Investment in innovation



# Change is Constant

## 2007-08

- Natural Gas 
- AB Revenues 
- Natural Disasters
- World Economy 
- Greentech 
- Environment Agenda 

## 2012-13

- Natural Gas 
- AB Revenues 
- Natural Disasters
- World Economy 
- Greentech 
- Environment Agenda 







**Thank You!**

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