



# Alberta's Climate Change Strategy

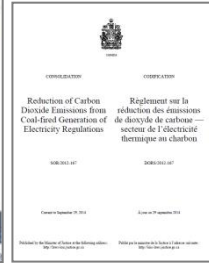
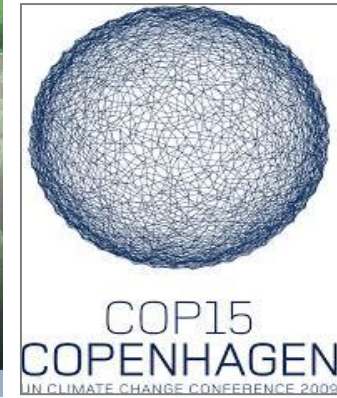
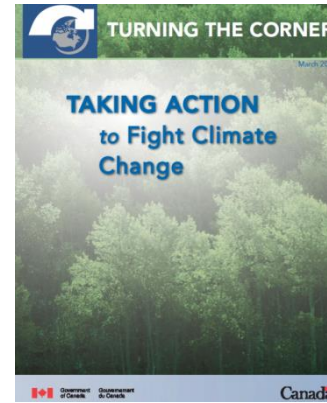
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Environment and Sustainable Resource Development**

**Alberta GHG Summit  
October 23, 2014**

# Alberta and Canada's Policy Evolution

Coal and sector-by-sector regulations

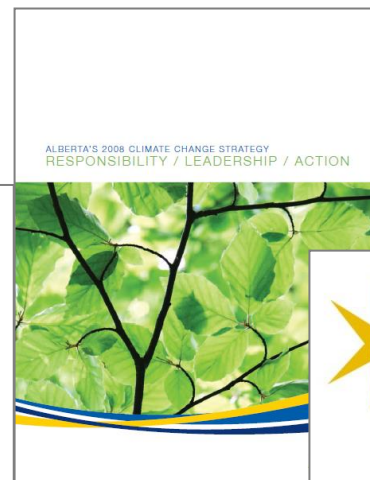
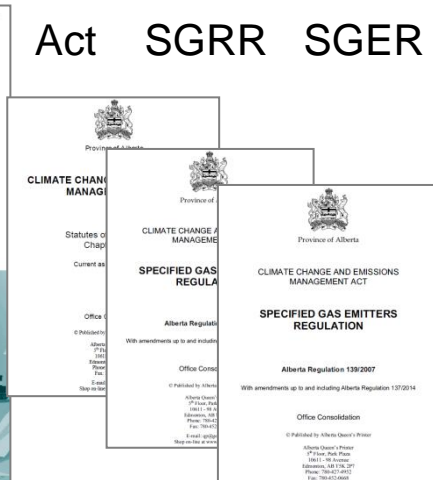
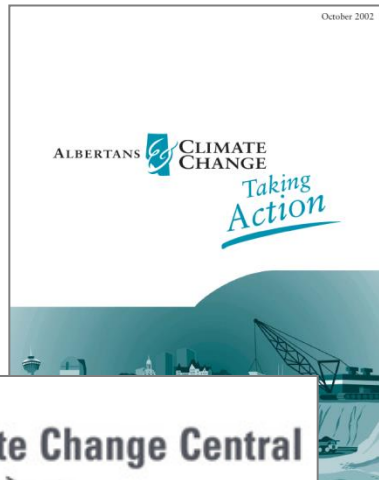


Canada



Alberta

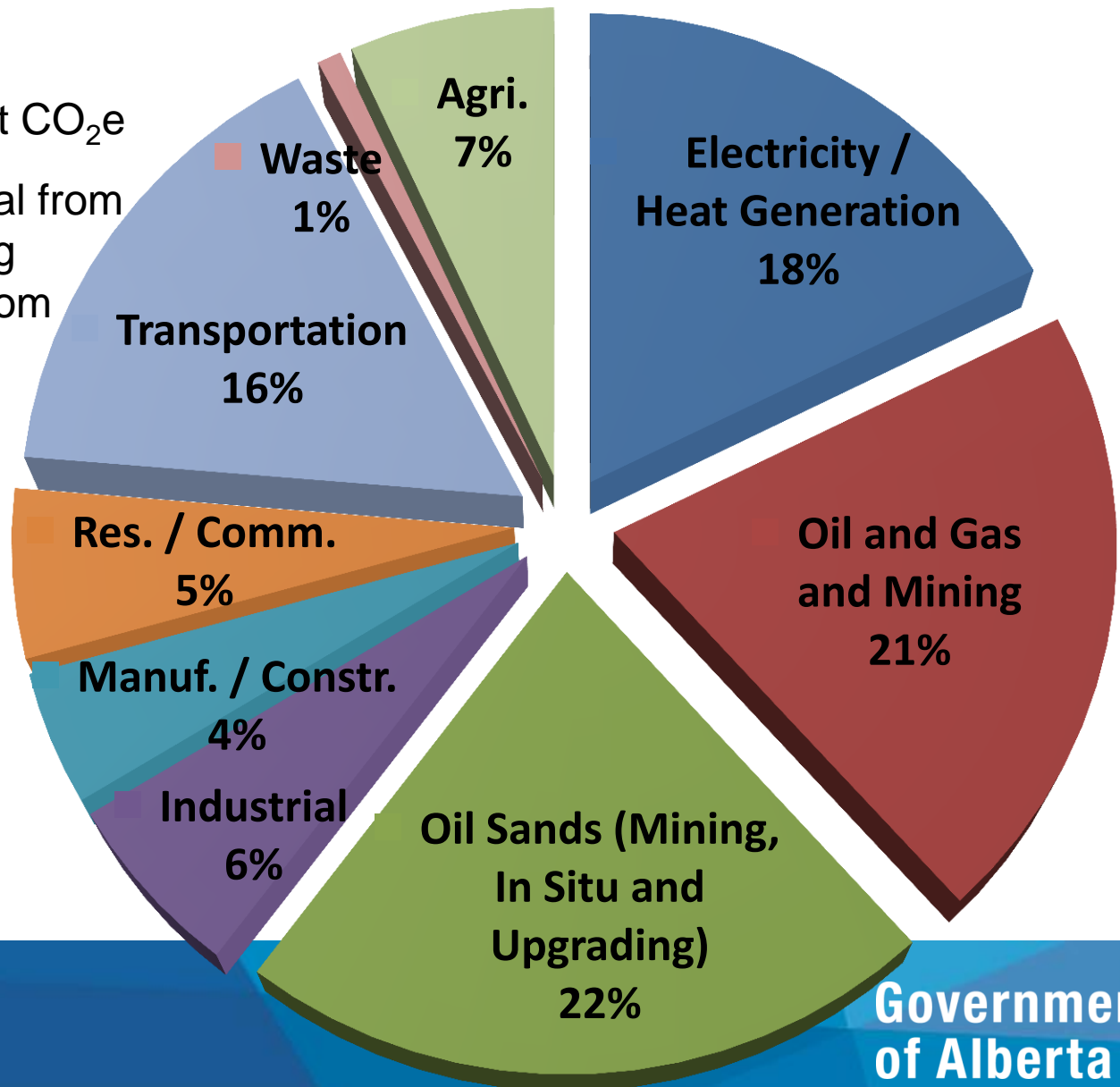
1995 Action Plan for Canada's Climate Change VCR Program



Strategy and regulatory renewal

# Alberta's GHG Emissions Profile - 2012

- Total emissions 249 Mt CO<sub>2</sub>e
- Oil sands emission total from Alberta GHG Reporting Program; other data from 1990 – 2012 National Inventory Report



# Alberta's Regulatory System

- 2007 Specified Gas Emitters Regulation
- Existing facilities required to reduce GHG per unit output by 12%
  - New facilities phased in at 2% per year
- Compliance options:
  - make on-site reductions
  - purchase or use emissions performance credits from facilities that have made reductions beyond requirements
  - purchase serialized Alberta carbon offsets and/or
  - pay \$15/tonne to the Climate Change and Emissions Management Fund

## RESULTS

(2007 to 2013 compliance):

- 50+ million tonnes of cumulative emissions avoided (from BAU)
- \$503 million paid into the Climate Change and Emissions Management Fund
- \$222+ million allocated to 88 projects by CCEMC (as of September 2014)

# Biofuel Growth

## Bioenergy grant programs (2007-2011)

- bio-refineries and bioenergy products
- supported more than 80 projects
- grants totalling approximately \$180 million

## Renewable Fuels Standard Regulation (adopted in 2011)

- 2% biodiesel blend in diesel fuel
- 5% ethanol blend in gasoline
- biofuels must have 25% fewer emissions than equivalent fossil fuel

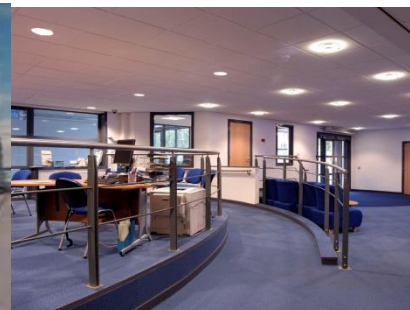
## Alberta's Bioenergy Producer Credit Program (2011-2016)

- commitment of \$400 million
- 10-fold increase in Alberta's liquid biofuel production capacity - 45 million litres in 2012 to over 400 million litres as of February 2014



# Municipal Climate Change Action Centre

- Partnership between AUMA, AAMDC and GOA established in 2009
- Granted \$4,000,000 for implementation and operation
- Flagship program - Taking Action to Manage Energy (TAME) Buildings Initiative supports energy efficient retrofits to municipal buildings
- Achievements:
  - 75 municipalities used assessment service, 25 participated in rebate program
  - ROI on retrofits averaged 12%
  - \$800,000 in rebates has supported \$4.2 million in municipal retrofit projects across 54 buildings
  - \$400,000 in cost savings annually



# Greening Government Operations

## **Green Power**

- Since 2005, Eco-Logo certified electricity has been purchased to supply government-owned buildings and operations
- Approximately 150,000 tonnes/year of GHG emissions avoided

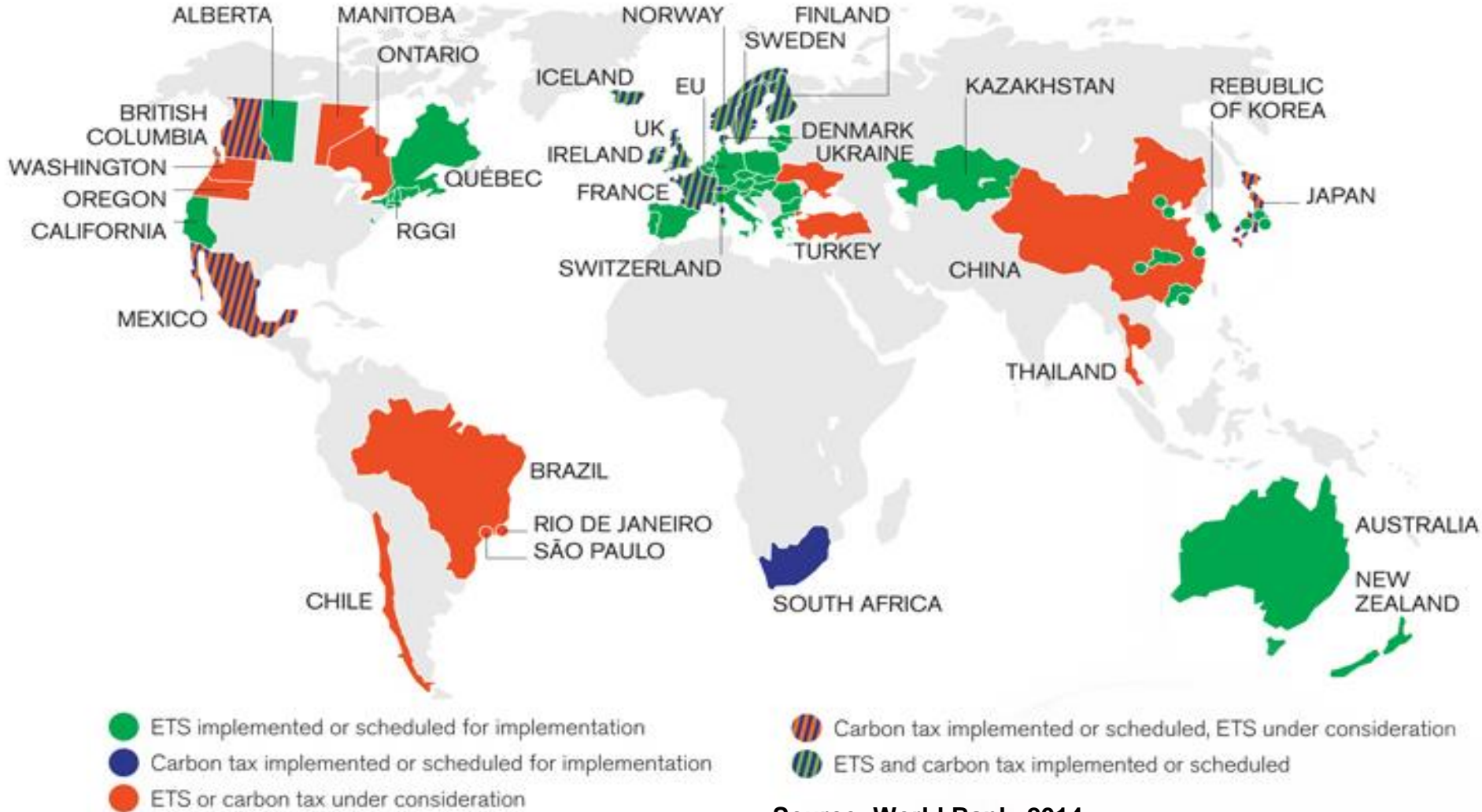
## **Sustainable Building Design and Building Operations**

- GOA adopted LEED Silver environmental standard for construction of new government funded buildings
- Since 2006, 25 government buildings have been certified LEED Silver or higher

## **BOMA BESt (Building Environmental Standards)**

- 87 facilities have been certified to BOMA BESt.
- 4 facilities have been certified to BOMA BESt highest standard, level 4.

# Emissions Trading Evolution



Source: World Bank, 2014