

SASKATCHEWAN AND CLIMATE CHANGE

Objectives/priorities

- To advance the development of carbon capture and storage technology – technology essential to curbing global greenhouse gas emissions. Saskatchewan is home to the world’s only functional, commercial-scale carbon capture and storage (CCS) project in the power sector. The technology being pioneered in Saskatchewan has the potential for global application.
- To further demonstrate that Saskatchewan can have both continued economic growth and a smaller GHG footprint, and serve as an example in that regard for other jurisdictions. Investment in new and more productive technology is essential to reducing GHG emissions.
- To contribute to Canada’s role at the Committee of Parties (COP) 21 conference in Paris by demonstrating Saskatchewan’s major efforts at GHG mitigation.

Highlights/measures/actions

- SaskPower (Saskatchewan’s electric utility), the province’s largest emitter, has made significant strides towards reducing CO₂ emissions from its coal plants. This includes efficiency improvements, the closure of coal-fired generation units and the conversion of one of its coal-fired generation units to CCS. Over the next 15 years SaskPower expects to achieve significant reductions in its coal-based CO₂ emissions: reductions of 16.8% (2.2 megatonnes) by 2020, 22.8% (3.0 megatonnes) by 2025, and 59.4% (7.9 megatonnes) by 2030.
- By 2024, SaskPower expects to invest upwards of \$2.7 billion on expanding its renewable energy sources and continuing to advance carbon capture and storage.
- Between 2008 and 2014, Saskatchewan committed \$5.3 billion on initiatives to address greenhouse gas emissions, including carbon capture and storage and the transition from coal to natural gas-fired electricity power plants.
- SaskPower is in the process of doubling its wind power capacity. By 2019, SaskPower expects wind power to account for 9% of the company’s total generating capacity.
- The Go Green Fund spent approximately \$60 million from 2008-09 to 2014-15 on initiatives that support research to advance environmental innovation and economic growth.

Opportunities for sustainable economic development

- Saskatchewan's investments and activities are building a framework for future sustainable economic development, including:
 - » Future carbon capture and storage opportunities;
 - » Ongoing reforestation;
 - » Highly efficient natural gas to support wind and other sources of renewable energy;
 - » Increased diversity of the electrical generation mix through investments in renewable energy sources, including biomass generation and wind power; and
 - » Ongoing investigation into other renewables and other low carbon generation sources, including solar, geothermal and hydro.

COLLABORATION
LEADERSHIP
VISION
INNOVATION
SOLUTIONS

ONTARIO
QUÉBEC
NOVA
SCOTIA
NEW BRUNSWICK
MANITOBA
BRITISH-
COLUMBIA
PRINCE EDWARD
ISLAND
SASKATCHEWAN
ALBERTA
NEWFOUNDLAND
AND LABRADOR
NORTHWEST
TERRITORIES
YUKON
NUNAVUT