

SASKPOWER CCS TEST FACILITY

ADVANCING CARBON CAPTURE AND STORAGE TECHNOLOGY



In 2013, construction began on SaskPower's Carbon Capture Test Facility (CCTF), located at the Shand Power Station near Estevan, Saskatchewan. When complete in 2015, it will be one of the world's leading facilities to test new and emerging carbon capture technologies.

In a joint venture with Mitsubishi Hitachi Power Systems, the test facility will be used to explore new technology over the next one or two years. At the end of this period, SaskPower will offer the facility to another company, allowing worldwide innovation in this important area.



UNIQUE FACILITY

Dozens of pilot plants world-wide are testing carbon capture. What makes the CCTF unique is it is the only facility adjacent to a full-scale, commercial carbon capture project: the Boundary Dam Carbon Capture and Storage Project, the world's first commercial scale CCS project on a coal-fired plant.

This gives companies a unique ability to test and analyze data and provide practical findings that can be used around the world.

SaskPower will provide technical support to companies testing post-combustion capture technologies at our test facility. This support includes:

- Laboratory capacity
- Engineering capacity
- Data and methodology interpretation with the University of Regina



FUTURE CARBON CAPTURE PROJECTS

Our Carbon Capture Test Facility will allow companies around the world to continue developing and testing carbon capture technologies and processes. The findings made here will widen the practical range of carbon capture technologies available for future large-scale projects, reducing emissions around the world.

The test facility also allows SaskPower to evaluate various technologies and plan for future carbon capture initiatives in Saskatchewan, using the technology that brings the most benefits to our province.

TECHNICAL OBJECTIVES

Initially, the test facility will explore energy demand, collection efficiency, long-term stability, operation, maintenance, and reliability of amine-based, post-combustion capture technologies. The facility has been designed to accommodate a wide range of processes. As the work and technology evolves, we can expand into testing other types of capture technologies. Along with the facility, SaskPower is building the technical team to deliver world-class testing and analytical results.

MEDIA ENQUIRIES: For more information, visit the Carbon Capture and Storage section of SaskPower.com

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