

WHO KNEW?*

Carbon Capture Test Facility

SaskPower is helping advance CCS knowledge and technology through the creation of the Shand Carbon Capture Test Facility (CCTF), providing technology developers with an opportunity to test new and emerging carbon capture systems for controlling carbon emissions from coal-fired power plants.



Located at the SaskPower Shand Power Station near Estevan, Saskatchewan, Canada, the facility is designed to provide a robust evaluation of the collection efficiency, long-term stability, operability, maintainability and reliability of amine-based, post-combustion technologies. The CCTF has been designed to accommodate a wide range of solvents. It has the capacity to add and remove process equipment, change the configuration of vessel internals, and expand the height of the key absorber vessel.

Developed in collaboration with Mitsubishi Hitachi Power Systems, Ltd., SaskPower's CCTF enables clients to evaluate the performance of their

technologies in a commercial setting. Construction began in early 2013 and the facility was opened in June 2015.

Along with the physical facility, SaskPower is establishing a technical team to deliver world class testing and analytical results. The knowledge and experience gained from the facility will be used to support the Boundary Dam Integrated Carbon Capture and Storage Demonstration Project and future CCS projects worldwide.

After initial demonstration by Mitsubishi Hitachi Power Systems, Ltd., the CCTF will provide a unique platform where further competitive technologies can be evaluated.

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<http://www.saskpowerccs.com/ccs-projects/shand-carbon-capture-test-facility/>

***A regularly featured column on industry, university and government initiatives in support of clean coal technology development & commercialization.**