



MEDIA RELEASE

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Oxyfiring successfully commences on the Callide Oxyfuel Project

The world-leading Callide Oxyfuel Project has reached a major milestone with the start of commissioning of oxyfiring technology.

The Callide Oxyfuel Project is a world-leading project to demonstrate how carbon capture and storage technology can be applied to an existing coal-fired power station to produce electricity with significantly lower emissions. The first stage of the project involves retrofitting oxyfuel technology to Callide A Power Station in Central Queensland, Australia.

The Callide Oxyfuel Project is one of only a handful of coal-fired low emission projects in the world to move beyond concept into construction.

Callide Oxyfuel Project Director, Dr Chris Spero, said that the first stage of commissioning of the plant under oxyfiring conditions had now commenced, with the successful integration of the oxygen production units with the coal-fired boiler.

"This signals a major step forward for the project and the demonstration of how carbon capture technology can be integrated with existing coal-fired power stations," Dr Spero said.

"Two Air Separation Units produce pure oxygen which is mixed with a portion of exhaust gases from the boiler and recycled back into the process.

"Burning coal in this mixture results in a concentration of carbon dioxide in the final exhaust stream where it can be more readily separated from the other exhaust gases in the carbon dioxide capture plant."

Dr Spero said that commissioning was critical to ensuring all of the elements of electricity generation and the oxyfuel and carbon dioxide capture processes are safe and thoroughly tested.

"We expect the oxyfuel boiler and carbon dioxide capture plant will be fully operational later this year," Dr Spero said.

"More than 150 staff and contractors have worked over 400,000 man hours during the construction and initial commissioning phases of the project.

"Demonstration projects such as the Callide Oxyfuel Project are essential if we are to research, develop and test such leading edge technologies for future application at a commercial scale."

The Callide Oxyfuel Project is a joint venture between CS Energy, the Australian Coal Association, Xstrata Coal, Schlumberger, and Japanese participants, J-POWER, Mitsui & Co., Ltd., and IHI Corporation. The project was awarded \$50 million from the Australian Government under the Low Emissions Technology Demonstration Fund and \$17.5 million from the Japanese Government. The Callide Oxyfuel Project has also received financial support from the Queensland Government and technical support from JCOAL. For more information on the project, visit www.callideoxyfuel.com

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