



## PROJECT STATUS REPORT FORM

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| <b>Project Number:</b> CFE-06-05   | <b>Task Force:</b> Fossil Energy                     |
| <b>Title of Project:</b> Callide A Oxyfuel Demonstration Project   |  |
| <b>Lead Partner Country:</b> Japan-Australia Joint Project   |  |
| <b>Participating Partner Countries and Organizations:</b><br>Japan - JCoal, JPower, Mitsui & Co., IHI Corporation;<br>Australia - CS Energy, Xstrata Coal, Carbon Storage Solutions (Schlumberger), Australian Coal Association  |  |
| <b>Project Location</b> (Country, State/Province, City):<br><br>Biloela (Central Queensland), Australia  |  |
| <b>Project Manager Information</b><br><b>Name:</b> Dr Chris Spero<br><b>Organization:</b> CS Energy Ltd<br><b>Address:</b><br>GPO Box 769 Brisbane Queensland Australia<br>Level 2<br>HQ North Tower<br>540 Wickham Street<br>Fortitude Valley Queensland 4006<br><b>Phone:</b> +61 7 3854 7303<br><b>Fax:</b> +61 7 3854 7833<br><b>Email:</b> cspero@csenergy.com.au   |  |
| <b>Project Start Date:</b> July 2006   | <b>Date of Project Status Update:</b> 20 August 2010 |
| <b>Actions Since Last Update:</b> <ul style="list-style-type: none"> <li>• Joint Venture meetings held every 3 months</li> <li>• Technical Committee meetings held every 3 months prior to JV meetings</li> <li>• Collaboration agreement signed with ZeroGen to examine common sites for storage of CO<sub>2</sub> from the Callide A Project</li> <li>• Collaboration Agreement being developed with CTSCO (Xstrata) for common storage in relation to the Wandoan Project.</li> <li>• Participation in IEA 1<sup>st</sup> International Oxyfuel conference in Germany (September 2009), and planning commenced for the 2<sup>nd</sup> International Oxyfuel Conference to be held in Queensland in September 2011.</li> </ul> |  |

**Deliverables Since Last Update:**

Progress as at end June 2010 is as follows:

***Stage 1 (CO<sub>2</sub> capture)***

- Procurement from Air Liquide of 2 x 330 tonne/day oxygen plant completed
- Procurement from IHI of equipment for boiler oxy-fuel retrofit completed
- Procurement from Air Liquide of flue gas compressor, and cold box for a 70 tonne/day CO<sub>2</sub> capture plant completed
- Site preparation (benching and laydown areas) and civil foundation work for the oxygen and CO<sub>2</sub> capture plant completed
- Erection of columns, and warm skid for the oxygen plant completed in June 2010.
- Work on interconnecting pipework and service work for the oxygen plant commenced.
- Erection of boiler oxyfuel modifications commenced.

***Stage 2 (CO<sub>2</sub> transport and storage)***

- Collaboration agreement signed with ZeroGen
- Prefeasibility study on suitability of ZeroGen 10 well area near Emerald for storage of a nominal 20,000 t CO<sub>2</sub> from the Callide A Project completed.

**Milestones Reached:**

- All equipment for oxygen plant delivered to site (June 2010)
- Flue gas compressor for CO<sub>2</sub> capture plant delivered to site (July 2010)
- All main equipment for oxyfuel boiler modifications delivered to site (July 2010)
- Construction contract with CBH for boiler oxyfuel retrofit awarded (February 2010)
- Callide Oxyfuel – ZeroGen prefeasibility study on storage option in the Northern Denison Trough saline aquifer near Emerald in central Queensland completed (June 2010)



**Next Steps:**

| Plant area  | Milestone  | Target Date                   |
|---|--|-------------------------------|
| <b>Stage 1</b>  |  |                               |
| Oxygen plant (ASU) supply                             | Completion of acceptance tests   | April 2011                    |
| CO2 plant (CPU) supply                                | Delivery of flue gas compressor<br>Completion of acceptance tests  | September 2010<br>August 2011 |
| CPU balance-of-plant supply                           | Design package   | November 2010                 |
| ASU and CPU – construction works                      | Practical completion of ASU<br>Practical completion of CPU   | April 2011<br>August 2011     |
| Oxyfuel Boiler  | Practical completion   | June 2011                     |
| Operations and Maintenance                            | Handover to operations   | September 2011                |
| <b>Stage 2 – CO<sub>2</sub> transport and Storage</b> |  |                               |
| Confirm funding                                       | In-principle agreement to Stage 2 funding  | September 2011                |
| Front End Engineering Design                          | Front End Engineering Design<br>Complete site works (injection well, monitoring system, site infrastructure) | May 2011<br>February 2012     |
| CO <sub>2</sub> transport and injection               | Finalize CO <sub>2</sub> transport contracts   | February 2012                 |
| CO <sub>2</sub> Injection and monitoring              | Commence injection and monitoring operations   | March 2012                    |

**Proposed Project End Date:** October 2016

**Project Already Complete:**  Yes  No

**Other Information:**

Website: [www.callideoxyfuel.com](http://www.callideoxyfuel.com)

Please attach any supplemental project information to this form.