**One-page expertise description**

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| Organisation | LABORELEC |
| Address | Rodestraat, 125, 1630 Linkebeek, Belgium |
| Type of partner | Research Centre |
| Website | www.laborelec.com |

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| Contact person | Julien Blondeau |
| Email | Julien.blondeau@laborelec.com |
| Telephone | +32 2 382 04 13 / Mob +32 473 695 895 |
| Position | Combustion specialist, Ph. D.  |

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| Date of publication | 24/01/14 |

Topic(s) of interest:

LCE 15 – 2014/2015: Enabling decarbonisation of the fossil fuel-based power sector and

energy intensive industry through CCS.

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| Headline:Expertise centre of GDF SUEZ for power generation (including process, transport and end use): engineering, lab analysis and onsite measurements.Keywords: fuel, combustion, flue gas, automation, thermodynamics, materials, laboratory, onsite measurement. |

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| Potential contribution:* Return of experience from GDF SUEZ
* Solid fuel analysis (including biomass)
* Sustainability assessment
* Fuel/boiler compatibility assessment
* Combustion tuning
* Thermodynamic cycles modelling
* Automation
* Flue gas treatment engineering and management
* Onsite flue gas measurements (organics & inorganics (at ppb/ppm), SO3, PM,…)
* SEM-EDX analysis of deposits
* SEM-EDX analysis of materials
* Corrosion monitoring

Existing contacts with potential partners regarding CCS: Crigen (France), CIUDEN (Spain), TU Darmstadt (Germany), Chalmers University (Sweden), Elcogas (Spain), Lhoist (Belgium). Generally: regular contacts with other utilities and boiler or flue gas treatment manufacturers. |