**One-page expertise description**

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