**One-page expertise description**

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| Organisation | LABORELEC |
| Address | Rodestraat, 125, 1650 LINKEBEEK, BELGIUM |
| Type of partner | Expertise centre with an unique combination of research & development and operational assistance experience, in a wide range of technical competences in Electricity Generation, Grids and End-Uses, in order to increase profitability and sustainability of energy processes and assets. |
| Website | www.laborelec.com |

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| Position | Senior expert, Doctor |

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| Date of publication | 28/01/2014 |

Topic(s) of interest:

LCE 1 **New knowledge and technologies -** Promising technologies for energy conversion need to be scaled-up in order to demonstrate their potential value in our future energy system. New knowledge and more efficient and cost-competitive energy technologies are required.

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| Headline:Technical competences regarding energy efficiency audits, energy savings and operational assistance. |

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| Potential contribution:One of the subjects of interest in energy efficiency and energy savings at large power stations is energy-efficient dewatering wet lignite. The state-of-the-art of dewatering wet lignite, at the scale of large power stations, is based on drying (= thermal evaporation of water). Laborelec is interested in mechanical dewatering of wet lignite by filter pressing at elevated temperatures.There are at least 5 known potential partners, from Germany, France, Austria and Finland, to collaborate on the efficiency of dewatering technology of wet lignite. Existing collaboration is successful. The potential partners are: power companies, suppliers of filter presses, R&D companies regarding water and universities.References are:* Course on CFBC, Frans van Dijen, Laborelec, 2013.
* RWE technology on drying of wet lignite, using the indirect heated fluidised bed.
* C. Bergins, Thesis, Science and technology of the mechanical/thermal dewatering, Dortmund 2005
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