

Widened feedstock base for Chemrec gasification technology

Chemrec's alkaline catalytic gasification technology was until recently applied exclusively for gasification of spent cooking liquors from the wood pulp industry. This feedstock provides a respectable base for the technology with a potential to produce up to 30 million tons of biofuels per year. Now, additional feedstock will provide both an extension of the total potential and give flexibility and further increase profitability of industrial projects.

This exciting development is based on co-gasification of black liquor and pyrolysis oil derived from wood waste. During the past year the concept has been verified in the laboratory. This work has shown that it is possible to add pyrolysis oil (PO) to black liquor (BL) and that the catalytic effect is maintained also for the mixture.

Now the technology is taken a giant leap forward. The BioSyngas R&D program, led by Luleå University of Technology, has been approved by its partners and is fully funded with a budget of SEK 158 million over 2.5 years. As one of its work packages, it will during 2014-15 provide verification at scale of the technology of co-gasification of BL/PO mixtures. This will be done in the DP-1 plant with its gasifier based on Chemrec technology.

The technology effectively doubles the feedstock potential of the Chemrec technology and to the advantage of our client makes possible larger scale, more flexible plants with high profitability.

Chemrec will continue the work to widen the range of applicable and proven feedstock options. The focus will be to include residues and negative value problem bio-wastes that can benefit from alkaline catalytic gasification.

For questions about this release and Chemrec, please contact

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Chemrec AB is developing and commercializing gasification technology for the production of biofuels and biochemicals. We are based in Stockholm, Sweden and our main owners are Environmental Technologies Fund and Nykomb Synergetics.

Our technology has within the BioDME project produced the syngas for hundreds of tons of second generation biofuel. This advanced fuel has been used for a fleet of heavy Volvo truck that has accumulated more than 1 million km driving distance and been the technical basis for Volvos commercialization of DME-fuelled vehicles.

Read more at www.chemrec.se , www.biodme.eu and <http://www.ltu.se/ltu/media/news/Forskning-om-biobranslen-sakrad-1.112187?l=en>