



Graduation/internship Assignment:

Performing **Life Cycle Analysis** for the process of **pyrolysis**

Introduction

A project has been adopted within the Centre of Expertise Biobased Economy at the Biobased Energy Research Group within the Avans University of Applied Sciences. This project has the goal to demonstrate and compare pyrolysis processes on available types of feedstock. Pyrolysis is a chemo-thermic process that can convert different types of feedstock into valuable products, including a bio-oil intermediate (35-45%) suitable for upgrading to motor fuel, a solid product biochar (30-40%), and gaseous products (20-30%).

One of the goals of this project is to calculate the environmental impact of this technology by performing life cycle analysis (LCA). LCA is a technique to assess environmental impacts associated with all the stages of a product's life and is important for convincing investors, getting a permit as well as process optimization.

Goal

The goal of this assignment is to perform an LCA on pyrolysis processes of converting different kind of feedstocks into valuable end-products by taking into account the whole value chain.

Company description

You will be working for the Biobased Energy Lectorate within the Centre of Expertise Biobased Economy (CoE BBE). The Centre of Expertise Biobased Economy is powered by the Avans University of applied sciences and HZ Univeristy of applied sciences and helps organizations and businesses to leverage their ambitions by renewing their higher education and applied research. In that way, CoE BBE enables excellently educated professionals to build the transition to a biobased society. The Biobased Energy Lectorate is focusing on the production and use of biobased energy while cherishing the environment.

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Interested?

Send a solicitation with motivation to

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