



CHP Biomass pyrolysis **NER 300**

The project

Technology category: Bioenergy

Location: Jelgava, Latvia

Max. NER 300 funding: EUR 3.9 million

Final investment decision: June 2018 (estimated)

Entry into operation: June 2020

State of advancement

The pre-engineering has been done. The investment decision is postponed to year 2018.

Outlook for coming year

The investment decision is planned for June 2018.

Outlook for coming 5 years

Construction should be started in Q3 2018. Entry into operation – June 2020.

Project sponsor

SIA Fortum Latvia

Project summary

The project involves the construction of a full-scale pyrolysis oil production plant linked to the existing Jelgava CHP power plant. The planned annual capacity of bio-oil is approximately 40 000 t corresponding to about 160-180 GWh of fuel. The intended primary raw material is wood chips.

Based on such a concept, the pyrolysis unit utilizes the hot sand of the fluidized bed boiler as a heat source. The devolatilized compounds from biomass are condensed into bio-oil and the remaining solids, including sand and fuel char, are returned to the fluidized bed boiler. In the boiler, the remaining fuel char is combusted together with non-condensable gases to produce heat and electricity. Once produced, bio-oils can be shipped, stored and utilized much like conventional liquid fuels.