

NEWSLETTER

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Northern Periphery and
Arctic Programme
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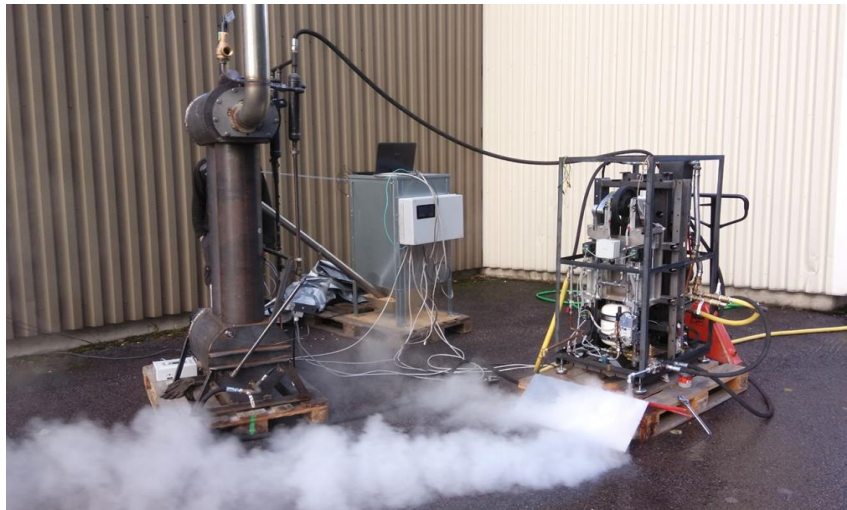


The aim of the H-CHP project is to create sustainable small-scale combined heat and power (CHP) solutions for households in the northern periphery. The aim is also to raise awareness of renewable energy solutions and their use in remote and sparsely populated areas. The task of the Department of Energy Technology at Oulu University of Applied Sciences (Oamk) is to evaluate the results of the project comprehensively and to provide technical expert support for the construction of CHP equipment.

The project, which started in 2017, aims to promote the introduction of combined heat and power (CHP) systems in households in the northern periphery. The project involved partners from Finland, Sweden, Iceland, Scotland, and Ireland.



Trial operation of a CHP plant based on a steam boiler and machine.



The project built one and investigated two different CHP plants. The aim of the FMT research group of the University of Oulu, which is leading the project, was to build a CHP plant based on a steam boiler and machine, using wood pellets as fuel, and the subassemblies of which were dimensioned by Oamk. The steam boiler and machine were made to operate individually during the project, but technical challenges became an obstacle in the implementation of the property's heat and power generation unit. This is a pity, as the other components related to the plant, such as power electronics and the control and user interface, are technically ready.

