

PRESS RELEASE

Cogeneration Roadmap for Finland published: Boosting Combined Heat and Power production could save one third of Carbon dioxide emissions up to 2030 – targets set for all EU member states



Brussels, 4. December 2014

Despite an already relative high share of combined heat and power production (CHP) in Finland, there is still a huge potential for further development of this high efficient energy transformation technology – and by exploiting it consequently CO₂ emissions of Finland could be reduced by around one third up to 2030. This is one of the outcomes of the Europe wide CODE2 project, which have been published today in all EU member states. Based on an analysis taking into consideration the existing structure of energy supply technologies and fuels, the project officers point to a huge potential of a more energy efficient use of fuels with modern technologies of combined heat and power production (CHP). Following a detailed roadmap worked out in the project, the CHP electricity share could further increase from 35 % to 39 % in 2030.

In Finland CHP development is currently stable on a relative high level. But there are still huge potentials for further increase. With a bundle of measures CHP development could return back to the challenging prospects of the Governments 2009 report to the EU commission on cogeneration. It is considered possible that cogenerated power production in Finland could increase by 13 TWh per year or 53 % up to 2030 compared to 2011 and cover than 39 % of total power use.

A CHP roadmap to achieve this target was developed through a process of discussion and exchanges with national energy experts in the context of the European funded project CODE2¹. According to the calculations of the project officers, the roadmap path could deliver 29 to 30 TWh/in primary energy savings and 17 Million tonnes of CO₂ reductions as a combined effect of technology and fuel switch.

“Finland with its high share of district heating is one of the world’s leading countries in cogeneration”, says Adi Golbach, responsible for the Northern region in the project team, “but regarding the enormous challenges of climate protection no one should rely on his achievements of the past. And indeed, in Finland there are enormous potentials for additional CHP electricity production both in district heating and industry, based on natural gas and bio energy.”

A key proposal of the roadmap is to take the implementation of the EU-Energy Efficiency Directive as an inducement to put an active CHP support policy on the agenda and to remove existing barriers. Particularly the roadmap recommends that government and industry should

¹ The CODE2 project is co-funded by the Intelligent Energy Europe Programme of the European Union

- consider suitable instruments to make investments in new CHP and modernisation or replacement of old CHP independent from distorted power exchange prices, which are based on a market design of the past and do not reflect the actual needs with regards to security of electricity supply;
- support and trigger the development and market introduction of gasification technologies for the huge amounts of black liquor in the pulp & paper industry and for solid biomass by use in CHP.
- encourage and support implementation and operation of CHP by energy service companies (ESCOs);

The Combined production of Heat and Power (CHP) is a key element to make energy generation in Europe more efficient and climate friendly. By developing National Cogeneration Roadmaps for 27 EU Member States plus the EU as a whole, the CODE2 project highlights the barriers still remaining for CHP in Europe. The roadmaps look at the policy framework, market conditions and awareness around cogeneration in Europe and propose a way forward for the sector that contributes to Europe's 2020 and 2030 energy and climate goals.

The CODE2 project started in 2012 and is now delivering its final results, being published on the project website (www.code2-project.eu). The direct download link to the CHP roadmap Finland (in English) is: xxx.

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