

PRESS RELEASE

Cogeneration Roadmap for Denmark published: Boosting Combined Heat and Power production could save 4 Million tonnes of Carbon dioxide emissions yearly up to 2030



Brussels, 4. December 2014

Despite an already relative high share of combined heat and power production (CHP) in Denmark, there is still a huge potential for further development of this high efficient energy transformation technology – and by exploiting it consequently CO₂ emissions of Denmark could be reduced by 3 to 4 Million tonnes per year 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 relevant 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 Danish CHP electricity production could further increase from 19 billion kilowatt-hours per year (19 TWh/a) in 2010 to 21 TWh/a in 2030.

In Denmark CHP power production is currently stable on a relative high level. But there are still potentials for a significant further growth. With a bundle of measures it is considered possible that yearly cogenerated power production in Denmark could increase by 2 TWh or 10 % up to 2030 compared to the peak year 2010, whilst without any active policy measures cogenerated power production is estimated to stagnate or even decrease.

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 4 to 5 TWh/in primary energy savings and 3 to 4 Million tonnes of CO₂ reduction as a combined effect of technology and fuel switch from coal to natural gas and bio energy.

“Denmark with its high share of district heating is the world’s leading country 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 Denmark there are still potentials for additional CHP electricity production both in district heating and industry, based on natural gas and bio energy.”

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

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 the Danish government should

- 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;
- revise the energy taxation system with the aim to encourage natural gas CHP and further more promote small scale and micro CHP in natural gas supplied areas;
- promote electric heat pumps in combination with district heating and small scale CHP as important elements of future “smart” electricity supply systems;
- encourage and support the 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 Denmark (in English) is: http://www.code2-project.eu/wp-content/uploads/Code-2-D5-1-Final-non-pilor-Roadmap-Denmark_f1.pdf.

The Cogeneration Roadmaps will be presented in the Final Dissemination Workshop of the CODE2 project that will take place on the 11th December 2014 in Brussels. For further information please click [here](#).

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