

PRESS RELEASE

Cogeneration Roadmap for Sweden published: Combined Heat and Power production could substantially contribute to the substitution of half of nuclear power production up to 2030



Brussels, 4. December 2014

The relinquishment of new nuclear power plants must not lead to increasing CO₂ emission in Sweden. This is one of the outcomes of the Europe wide CODE2 project, which have been published today in all EU member states. Referring to a study made for the Swedish government already nine years ago, 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 increase from 10 % to 23 % in 2030. As a result, despite a reduction of nuclear power production in Sweden, every year 52 billion kilowatt-hours of energy and 3 Million tonnes of the main climate gas carbon dioxide could be saved up to 2030.

With an increase from 16 to 40 Terawatt hours per year up to 2030, a concrete target for the future development of the high efficient combined heat and power production (CHP) in Sweden was published today. A 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.

Most of the municipalities in Sweden have local district heating networks and more than half of all homes and business premises are heated with district heating, which is an excellent precondition for cogeneration. But nevertheless the CHP share in total electricity production at 10 % is below the European average. "This is not only bad news as it's also bearing a chance, says Adi Golbach, leader for the Northern region in the project team, "low shares of CHP in district heat production and industrial heat production mean that there is still a huge additional CHP potential to be realised. And in combination with increased efficiency of bio energy CHP by implementation of new wood gasification technologies, this would allow Sweden to more than double CHP electricity production from 17 TWh/a to 40 TWh/a in 2030."

Of course, high shares of hydropower, bio energy and nuclear power in Sweden's energy mix mean that decarbonisation of electricity is already extremely high. Together with an increasing supply of wind power, developing CHP further could assist in the substitution of 50 % of current nuclear power production up to 2030 without any compromise in climate protection policy.

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 still existing indirect barriers. Particularly the roadmap recommends that government and industry

- should consider suitable instruments and incentives to increase the CHP share in district heat production from currently only 41% to European standards of least at 80% by use of natural gas and bio energy,
- consider suitable instruments to make investments in new CHP and modernisation or replacement of old CHP independent from power exchange prices,
- Government and industry should support the development and market introduction of biomass gasification for use in CHP

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 Sweden (in English) is: <http://www.code2-project.eu/wp-content/uploads/CODE2-Non-pilot-SE-final-8.11.2014.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](#).

END

For more information please contact:

Adi Golbach
Managing Director KWK kommt U.G.
Leader for Northern Region in the CODE2 project
Tel: +49 30 43 60 55 72
Email: adi.golbach@kwkkommt.de

Dr Fiona Riddoch
Managing Director COGEN Europe
Tel: +32 2 772 8290
Fax: + 32 2 772 5044
Email: fiona.riddoch@cogeneurope.eu



Co-funded by the Intelligent Energy Europe
Programme of the European Union

The sole responsibility for the content of this publication lies with the authors. It does not necessarily reflect the opinion of the European Union. Neither the EACI nor the European Commission are responsible for any use that may be made of the information contained therein.