

CODE2

**Cogeneration Observatory
and Dissemination Europe**



D2.4 First draft of final CHP roadmap **FINLAND**

May 2013

The Northern Europe CODE2 Region draft roadmap for non-pilot Member States.

*The CODE2 Region 'Northern Europe' comprises the following Member States:
Austria, Denmark, Finland, Germany, Sweden.*



Introduction

The draft Roadmap for the non-pilot Member State Finland in the Northern Europe CODE2 Region is submitted separately. The following update covers the non-pilot Member States.

A three parts structure has been agreed for the roadmaps:

- 1) Where are we now? Background and situation of cogeneration in the Member State
- 2) What is possible? Cogeneration potential and market opportunities
- 3) How do we arrive there: the Roadmap

Following the Northern Europe CODE2 Region Workshop, the format and final content outline for the individual non-pilot Roadmaps will be finalised. All of the Roadmaps for the Region will be available in September 2014.

What follows gives an overview of the progress on the Roadmaps for non-pilot Member States in the Region following the structure of the final Roadmap.

Chapter 1 - Where are we now? Background and situation of cogeneration in the Member State

1.1, 1.2, 1.3 Current status, Energy and Climate Strategy, Policy Development

Status of information gathering (list main sources)	<ul style="list-style-type: none">• All government and industry reports 2007-2013 reviewed• Meetings and discussions with 9 National and CHP experts in 5 meetings on 25/26 February 2013 in Helsinki
Significant gaps	More information needed on status and additional potentials of industry and commercial CHP and possible contributions by ESCOs in this area
Planned actions	Additional discussions with experts from the Finnish research company VTT and the Finnish CHP manufacturer Wärtsilä

1.4 Awareness

Process of developing awareness assessment	Information gathering based on standard CODE2 awareness table
Status of analysis	Currently no interviews
Significant gaps	No notable gaps identified
Planned actions/key milestones	Asking 4 experts for filling the awareness table

1.5 The economics of CHP

Process of developing economics assessment	Filling the CODE2 excel tool for calculation of CHP economic indicators with support of experts
Status of analysis	Only discussions with experts on general economic situation of CHP in Finland. No concrete economic numbers received
Significant gaps	Required numbers still missing
Planned actions/key milestones	Ask one or two experts to fill the excel tool up to July

1.6 Barriers to CHP

Process of developing barriers assessment	Literature review and in person discussions with experts
Status of analysis	No major barriers with one exemption: the new taxation system is seen by several experts as a serious discrimination against CHP heat in the competition with heat pumps
Significant gaps	The existence of possible barriers in the small-scale industry includes lack of awareness on CHP solutions to be reviewed
Planned actions/key milestones	Phone calls with 2 experts. Reviewing possible discrimination against CHP in the energy tax system

Chapter 2 - What is possible? Cogeneration and market opportunities

2.1 Market opportunities

Method of assessment of opportunities	Literature review and discussions with experts
Progress to date	Good overview on market opportunities up to date
Planned actions	Further discussions with 2 more experts in July

2.2 Considering the framework of the EED

This section will be developed following the first Member State workshop and will be based on the regional pilot roadmap and the outputs from the workshops.

Chapter 3 - How do we arrive there: the Roadmap

3.1 Overcoming existing barriers and creating a framework for action

Status	Preliminary results: encouraging and supporting energy services for on-site CHP in the industry and other application areas could be helpful; biomass gasification to biomethan could increase bioenergy CHP potential. Checking a revision of the energy taxation system
Planned actions	2 more experts discussions in July

3.2 Possible paths to growth

Status	Review of the report <i>"Turning challenges into opportunities - a carbon neutral vision for electricity and district heat for 2050"</i> , published by Finish energy Industries 2009
Planned actions	On the base of the roadmap measures to be concretised, a possible path will be proposed and discussed with experts