

HEATING AND COOLING

IN THE EUROPEAN ENERGY TRANSITION



CHARLEMAGNE BUILDING
26-27 FEBRUARY 2015
BRUSSELS

OVERVIEW

25/2	Side sessions (organised by third parties)		14:30-18:00
25/2	Welcome cocktail		19:00-20:00
26/2	Registration & welcome		9:00 - 10:00
	Plenary session – Opening		10:00-13:00
	Workshop 1	Heating and cooling: a vision for 2050	14:30-17:30
	Workshop 2	Heating and cooling for industry	14:30-17:30
	Workshop 3	Financing for heating and cooling (launch of EFFIG report to the European Commission)	14:30-17:30
	Plenary session: workshop debrief		17:30-18:00
	Networking cocktail		18:00-19:30
27/2	Registration		8:30-9:00
	Workshop 4	Heating and cooling for buildings	9:00-12:00
	Workshop 5	The technology challenge	9:00-12:00
	Workshop 6	Building heat markets	9:00-12:00
	Conclusions & way forward		12:00-13:00

25 February 2015

Side events relevant to the conference's topic can be organised on 25 February 2015 (PM). Please address your interest to heating&cooling.in.eu@cecoforma.com by 9 January 2015.

26 February 2015

10:00-13:00

Plenary session: Opening

The conference will comprehensively explore the heating and cooling sector, including its role in achieving the EU's climate and energy objectives. It will initiate debate and build consensus on how to ensure full participation of the heating and cooling sector – which accounts for half of the EU's energy consumption - in the energy transition. It is the opportunity to discuss with European and national policy makers, representatives from industry, businesses and consumers' representative bodies, professional organisations, NGOs, local and national authorities, academia, research institutions and relevant international organisations, on the issues facing the heating and cooling sector.

Workshops

The main aim of the Conference is to generate debate amongst participants. Each workshop will be introduced by 3-4 expert speakers, whose presentations will focus on communicating facts and issues rather than positions. The workshop will include sufficient time for debate.

14:30-17:30

Workshop 1: Heating and cooling: a vision for 2050

This workshop will set the scene and establish the facts on heating and cooling today versus the EU's medium and long term energy and climate objectives. It will explore the need for energy efficiency improvements and renewable energy; it will outline the development of the market shares of the different heating and cooling options under business as usual conditions, and contrast it to what will be necessary for the heating/cooling sector to become sustainable. It will look at the flexibility needed for the large scale integration of variable renewable energy sources and how heating and cooling can contribute to providing this flexibility. It will present existing solutions best suited for the various European geographies and how these integrate with electricity markets. It will suggest a vision for the heating/cooling market highlighting the benefits of integrating the heating/cooling sector with the electricity system.

Workshop 2: Heating and cooling for industry

Energy represents on average around 10-35% of the total cost of input for production of energy intensive industries. A large proportion of this input is needed in the form of high and medium temperature heating and cooling, as well as space heating. Making industrial heating and cooling more efficient, low-carbon and renewable presents a considerable challenge, yet it is a necessary part of the EU energy transition. The session will examine heating and cooling needs, the available options and the challenges of decarbonising and improving efficiency in heating and cooling. It will also take into account the constraints that shape industry choices in the context of global markets.

Workshop 3: Financing for heating and cooling

"Energy Efficiency – the first fuel for the EU Economy: How to drive new finance for energy efficiency investment." This is the Final Report of the Energy Efficiency Financial Institutions Group (EEFIG) which will be launched during the workshop conference, with the participation of high level representatives of the financial institutions, investors, experts and European Commission. The focus session will specifically be on drivers of investment, providing insights from stakeholders, regulators and investors while reflecting on the investment needs discussed in previous sessions and instruments to address them in the various target sectors (buildings, industry/SMEs, district heating and cooling).

17:30-18:00

Plenary session: Workshop debrief

- Reports from the workshops by the moderators

27 February 2015

9:00-12:00

Workshop 4: Heating and cooling for buildings

This session will examine the need to find ways to decrease demand and decarbonise heating and cooling in buildings. It will also examine ways to increase energy efficiency in the supply of heating and cooling. The session will address the question of how to best choose, combine and balance policies and measures at building level and district level and how to ensure their synergies. It will examine ways to improve the energy efficiency performance of buildings, increase renewable energy deployment and decarbonise. Topics to be discussed include the role of district heating, the possible synergies with building renovations and strategies, as well as the best ways to find a cost-optimal balance for requirements in building' and heating and cooling supply.

Workshop 5: The technology challenge

The session will provide an overview of the technology landscape for heating and cooling, analysing the current stock and identifying challenges, gaps and needs in order to increase its efficiency and accelerate market deployment. It will differentiate between solutions offered for

space heating, space cooling in buildings and the requirements of industrial processes. It will also cover heat storage, district heating and cooling solutions and technologies for system integration with electric networks. The session will also debate the various deployment barriers and the possible instruments and solutions to overcome them.

Workshop 6: Building heat markets

In some EU countries markets for heating and cooling are underdeveloped or not developed at all.. Consumers lack information, advice and instruments to understand their options in terms of prices, technologies and solutions best suited to their needs. Heat markets are the most efficient in bringing customers together with providers of heat and cooling supply – they are a platform for offering a wide range of cost-effective choices. National and local authorities have a key role in creating the market framework and instruments, and ensuring that these help in achieving their energy efficiency and decarbonisation goals in buildings, cities and industries.

Conclusions and way forward

The plenary session will provide an overall debrief of the workshop and draw conclusions. It will spell out the main messages, the questions and identify elements of a more coherent approach to heating and cooling