

CHALMERS ENERGY CONFERENCE

The role of energy efficiency

May 14–16, 2013

TUESDAY MAY 14 - PROGRAMME

13:00	BUILDINGS	INDUSTRY	TRANSPORT
	Study visit 1 Transformation of a mass housing estate <i>Departs from Chalmers main entrance Johanneberg</i>	Study visit 2 Energy efficiency in industry - Borealis <i>Departs from Chalmers main entrance Johanneberg</i>	Study visit 3 Hyper Bus – the energy efficient public transportation <i>Departs from Chalmers main entrance Johanneberg</i>
17:00	RECEPTION		

Reception hosted by:



Tillsammans blir vi bättre

WEDNESDAY MAY 15 - PROGRAMME

9:30	REGISTRATION	
10:00	INTRODUCTION AND SETTING THE SCENE <i>Chair: Anders Ådahl, Chalmers Energy Area of Advance, Chalmers</i>	
	Introduction and welcome Anders Ådahl, Director Chalmers Energy Area of Advance	
	Energy and energy efficiency - a competitive edge for Europe Maria Sunér Fleming, Confederation of Swedish Enterprise	
	Challenges for the refinery sector Petter Holland, President and CEO, Preem AB	
	Systems Perspectives on Electromobility Björn Sandén, Department of Energy and Environment, Chalmers	
	Building challenges Randall Bowie, Rockwool International A/S, Denmark	
12:00	LUNCH	
13:20	INDUSTRY Business and policy perspectives on industrial energy efficiency <i>Chair: Thore Berntsson, Department of Energy and Environment, Chalmers</i>	BUILDINGS Smart Cities <i>Chair: Henriette Söderberg, Department of Energy and Environment, Chalmers</i>
	Lean energy – using the potential of management principles to improve energy efficiency Arni Halldorsson, Department of Technology Management and Economics, Chalmers	Spatial Building Stock Modelling as a means towards the 2000 watt society in the city of Zurich Holger Wallbaum, Department of Civil and Environmental Engineering, Chalmers
	Energy audit – a step towards energy efficiency Magnus Karlsson, Department of Management and Engineering, Linköping University	From Vienna's historical heritage buildings to lakeside plus energy district. Learning from experience to advance towards sustainable, safe, and affordable low carbon energy living (?) Thomas Bednar, Institute of Building Constructions and Technology Vienna University of Technology, Austria
	The characteristics of industrial energy-efficiency measures: How do they affect the adoption decision by firms? Tobias Fleiter, Fraunhofer Institute for Systems and Innovations Research, Germany	Policies for Smart Cities: Rivercity/Älvstaden Göteborg Katrina Folland, City of Gothenburg
	The Swedish PFE program - ten years after, a victim of its own success? Christian Stenqvist, Division of Environmental and Energy Systems Studies, Lund University	Celsius Cities – EU on the road for energy efficient and competitive heating and cooling infrastructure Jonas Cognell, Göteborg Energi AB

14:40 COFFEE

15:00	TRANSPORT Systems and business perspectives on transport efficiency <i>Chair: Bo Egardt, Department of Signals and Systems, Chalmers</i>	BUILDINGS Policy, incentives and potential <i>Chair: Jan-Olof Dalenbäck, Department of Energy and Environment, Chalmers</i>
	Challenges in wood biofuel transport Jonas Flodén, Department of Business Administration, University of Gothenburg	District heating - European potential Sven Werner, Högskolan i Halmstad
	The role of fuels for energy efficiency Lisa Jacobsson, Volvo Cars	Modelling energy demand in the EU building sector Érika Mata and Eoin Ó Broin, Department of Energy and Environment, Chalmers
	Chasing the last mile - the transportation industry and its approach to energy efficiency Per-Olof Arnäs, Department of Technology Management and Economics, Chalmers	Future requirements of nearly zero energy buildings due to recast of the EPB directive Åsa Wahlström, CIT Energy Management
	Improve economy and environment by predicting the driving: How knowledge of the drive-cycle influence the vehicle design and control Jonas Sjöberg, Department of Signals and Systems, Chalmers	Simply Green - Environmental certification overview Petra Vladkova, Swegon Air Academy

16:20 COFFEE

16:40	TRANSPORT Technology for improving efficiency <i>Chair: Maria Grahn, Department of Energy and Environment, Chalmers</i>	INDUSTRY Energy efficient industrial technology and systems <i>Chair: Maarten Neelis, Ecofys, Netherlands</i>
	Engines different technologies, how to reach the requirements 2020 90g Ingemar Denbratt, Department of Applied Mechanics, Chalmers	Energy efficiency as a way to improve the implementation of new technology in existing industries Valeria Lundberg, Department of Energy and Environment, Chalmers
	Green Catalysis for the Future Magnus Skoglundh, Competence Centre for Catalysis, Chalmers	Exploring interprocess heat integration opportunities for increased energy efficiency in industrial clusters Simon Harvey, Department of Energy and Environment, Chalmers
	Improving vehicle aerodynamics for better energy efficiency Sinisa Krajnovic, Department of Applied Mechanics, Chalmers	Energy efficiency initiatives in five Western Swedish industrial sectors Jonas Norrman and Ida Lindbergh, GAME (Göteborg Action for Management of the Environment)

18:00 CONFERENCE DINNER

THURSDAY MAY 16 - PROGRAMME

9:00

ENERGY MANAGEMENT

Chair: Karin Andersson, Department of Shipping and Marine Technology, Chalmers

Improving the Energy Efficiency of Freight Transport: A Logistical Perspective

Alan McKinnon, Kühne Logistics University, Germany

Energy Management Programme for Industry - Gaining through saving

Vida Rozite, Energy Efficiency Unit, IEA

Industrial Energy Efficiency: meeting society's demand for materials in an energy efficient way

Maarten Neelis, Ecofys, Netherlands

10:10

COFFEE

10:30

EFFICIENCY VS ELECTRICITY SUPPLY

Chair: Filip Johnsson, Department of Energy and Environment, Chalmers

The economics of low cost renewable electricity

Tomas Kåberger, Chalmers Energy Area of Advance, Chalmers

Efficient use of Electricity with 50% Wind power

Frede Hvelplund, Aalborg University, Denmark

Making business of temporary surpluses in the electricity market

Atle Middtun, Department of Innovation and Economic Organisation, BI Norwegian Business School, Norway

Panel discussion

Tomas Kåberger, Lina Reichenberg and David Steen, Department of Energy and Environment, Chalmers

BUILDINGS

Technologies for improved efficiency

Chair: Holger Wallbaum, Department of Civil and Environmental Engineering, Chalmers

Grid tailored Buildings: Cooling-Heating-Networks in Supermarkets as thermal buffers

York Ostermeyer, Department of Civil and Environmental Engineering, Chalmers

Smart district heating - Utilize buildings as thermal batteries

Johan Kensby, Energy and Environment, Building Services Engineering, Chalmers

High performance thermal insulation materials - reducing energy use in buildings

Pär Johansson, Department of Civil and Environmental Engineering, Chalmers

Energy Efficient Office Buildings

Jonas Gräslund, Skanska Commercial Development Nordic AB

11:50

LUNCH

12:50

REBOUND AND ENERGY EFFICIENCY

Chair: Anders Ådahl, Chalmers Energy Area of Advance, Chalmers

Energy Efficiency, a key question for business success

Tommaso Auletta, Energy Efficiency Manager, ABB

The need for a paradigm shift to achieve low-energy and low-carbon buildings stock by 2050

Yamina SAHEB, Head of Sustainable Buildings Centre, International Energy Agency

Rebound effects: causal mechanisms

Jonas Nässén, Department of Energy and Environment, Chalmers

Logistic measures towards sustainability

Magnus Blinge, Department of Technology Management and Economics, Chalmers

14:10

COFFEE

14:30

SUM UP AND DISCUSSION

- 15:30

Chair: Tomas Kåberger, Chalmers Energy of Advance, Chalmers