

Wednesday 13 May at 09:00-15:30

Welcome to webinar

08:45 Log in

09:00 Welcome session

Introduction

Petter Røkke, SINTEF Energi

Education program in HighEFF – overview of PhDs, Post.docs, publications and industrial short courses

Truls Gundersen, NTNU

Measuring achievement of the HighEFF overall goals

Monika Nikolaisen and Petter Nekså, SINTEF Energi

10:00 Break

HighEFF research - highlights and results

10:15 Research Area 1 Methodologies (RA1)

Investigating the potential for increased energy utilisation and reduced CO₂ emissions at Mo Industripark

Olaf T Berglihn, SINTEF Industri

A nonsmooth approach to modelling and optimization – applications to liquefied natural gas processes and work and heat exchange networks

Matias Vikse, SINTEF Energi

10:50 Research Area 2 Components (RA2)

Modelling of compact plate heat exchanger in a context of process optimisation

Geir Skaugen, SINTEF Energi

CFD for dummies

Knut Emil Ringstad, NTNU

11:30 Lunch break

12:30 Research Area 3 Cycles (RA3)

Elkem Thamshavn's energy recovery system – Analysis of control strategies and thermal storage potential

Daniel Rohde, SINTEF Energi

Industrial high temperature heat pumps – available and conceptual technology for supply temperature above 150°C

Espen Verpe, SINTEF Energi

13:05 Research Area 4 Applications (RA4)

Increased utilisation of energy contained in the off-gas of the Si submerged arc furnace (SAF) process by gas re-circulation

Vegar Andersen, NTNU

Robust control of energy systems – How to effectively handle uncertainty

Mandar Thombre, NTNU

13:45 Break

14:00 Research Area 5 Society (RA5) - including the Novel Emerging Concept projects

Cost optimal choice for thermal storage in industrial steam production

Anton Beck, AIT

Shared resources – the process towards collaboration

Catharina Lindheim, NTNU Social Research

How firms use coordination activities in university-industry collaboration: adjusting to or steering research centre goals

Irina Isaeva, NORD Universitetet

14:50 Research Area 6 Cases (RA6)

Casting of silicon-rich metals with a super-heated steam atmosphere

Ida Kero, SINTEF Industri

Heat pump concepts for steam production at Glencore Nikkelverk

Cecilia Gabriellii, SINTEF Energi

15:30 End