eceee Industrial Summer Study Proceedings

Online version

Industrial Efficiency 2018
Leading the low-carbon transition
11–13 June 2018
Kalkscheune, Berlin
Germany

PROCEEDINGS PRODUCTION

Project manager

Therese Laitinen Lindström Borg & Co, Stockholm, Sweden

Proceedings editing, layout and production

Therese Laitinen Lindström & Ylva Blume Borg & Co, Stockholm, Sweden

Nina Hampus Hampus Media, Stockholm, Sweden

Cover design

Klas Björkman Björkman & Mitchell, Stockholm, Sweden

© eceee and the authors, Stockholm 2018

ISSN 2001-7987 ISBN 978-91-983878-3-4

The proceedings are also available in an printed version (ISSN 2001-7979, ISBN 978-91-983878-2-7).

Proceedings can be ordered from:

eceee secretariat Sveavägen 98, 4 tr 113 50 Stockholm Sweden

tel: +46 (0)8 673 11 30

eceee@eceee.org www.eceee.org

Disclaimer: The responsibility for the contents of the proceedings lies with the authors. The contents do not necessarily represent the opinion of eceee or the conference supporters and partners.

Acknowledgements

The eceee board would like to convey a special thanks to the partners, whose support makes this event possible. The board would also like to thank all the authors and the panel leaders for their intense efforts to contribute to these proceedings. We gratefully acknowledge the support of all the anonymous helpers who have assisted in making Industrial Efficiency 2018 a success.

NATIONAL CO-ORGANISER

Deutsche Unternehmensinitiative Energieeffizienz e.V. (DENEFF)

GOLD PARTNER

Swedish Energy Agency

SILVER PARTNER

Agence de L'Environnement et de la Maîtrise de l'Energie (ADEME)

PARTNERS

The European Industrial Insulation Foundation (EiiF)
Fraunhofer Institute for Systems and Innovation Research ISI
Institute for Energy Efficiency in Production at the University of Stuttgart (EEP)
ISOVER Technical Insulation
Rockwool Technical Insulation
TRACTEBEL Engie

PANEL LEADERS

PANEL 1. Policies and programmes to drive transformation

Joe Ritchie International Energy Agency, France
Oliver Lösch Institute for Resource Efficiency and Energy Strategy (IREES), Germany

PANEL 2. Sustainable production towards a circular economy

Andrea Trianni University of Technology Sydney, Australia Enrico Cagno Politecnico di Milano, Italy

PANEL 3. Energy management: the nuts and bolts

Maria Johansson Linköping University, Sweden Therese Nehler Linköping University, Sweden Liam McLaughlin GEN Europe, Ireland

${\sf PANEL}\ 4.\ \ \textbf{Technology, products and systems}$

Christina Hatzilau National Technical University of Athens, Greece **João Fong** University of Coimbra, Portugal

PANEL 5. Business models and finance in the age of digitalisation

Bettina Dorendorf KfW Bankengruppe, Germany **Carsten Glenting** Viegand & Maagøe, Denmark

CONFERENCE MANAGERS

Christel Broussous, Therese Laitinen Lindström & Anne Bengtson

CONFERENCE CO-CHAIRS

Claire Range, Ulrika Wising & Rod Janssen

EXECUTIVE DIRECTOR

Nils Borg

ECEEE BOARD

Board members

Peter Bach, Danish Energy Agency, Denmark (President)

Agneta Persson, Anthesis Group, Sweden (Vice President)

Joanne Wade, ACE, UK (Vice President)

ADEME, French Agency for Environment and Energy (seat is currently vacant

– alternate Didier Bossebæuf represents ADEME until a new representative has been appointed)

Erwin Cornelis, Tractebel Engineering S.A., Belgium
Susanne Dyrbøl, EuroACE
Fiona Hall, Advisor to Rockwool International
Cédric Jeanneret, SIG, Switzerland
Brian Motherway, IEA, France
Julia Reinaud, i24c – Industrial Innovation for Competitiveness, France
Clemens Rohde, Fraunhofer ISI, Germany
Andrea Roscetti, Kyoto Club, Italy

Alternates

Didier Bossebæuf, ADEME, France Paula Fonseca, University of Coimbra, Portugal Barbara Schlomann, Fraunhofer ISI, Germany