



Energy Management for Large-Scale Research Infrastructures

13-14 October 2011, ESS-LUND, Sweden

Programme

Thursday, 13th October

First plenary session (Chair: Colin Carlisle, ESS)

09:30 – Welcome & goals

Representatives from the Organizers

10:00 – Energy and Climate Challenges for Research Infrastructures

Catherine Césarsky, High Commissioner for the Atomic Energy Commission CEA, France

10:30 – The Energy Future of Large Scale Facilities

Jonas Abrahamsson, CEO E-ON Nordic

11:00 - Coffee break

11:30 – Energy 2020 - a strategy for competitive, sustainable and secure energy for Europe and the SET-Plan

Henrik Bindslev, Chairman of the European Energy Research Alliance EERA, Director of the National Laboratory for Sustainable Energy, Technical University of Denmark

12:00 – World Energy Scenarios

Nebojsa Nakicenovic, Deputy Director of the International Institute for Applied Systems Analysis IIASA, Vienna

12:30 – National Energy Strategy for Norway
Einar Hope, Norwegian School of Economics, Bergen

13:00 – Business Lunch

14:30 – Parallel sessions

14:30 – Parallel session ONE (Chair: Thomas Parker, ESS)

Energy supply: challenges in availability and quality (case studies, best practice on efficiency, optimization, solutions, implementations)

Energy Management for High Magnetic Fields
Gert Rikken, LNCMI, Toulouse, France

Energy Aspects – High Performance Computing
Kimmo Koski, CSC, Finland

Energy Management in Wind Tunnel Projects
Patrick Wagner, ONERA

14:30 - Parallel session TWO (Chair: Jean-Pierre Caminade, SOLEIL)

Energy Supply: challenges in Procurement issues, financing, grid regulation and investment choices

Energy Supply for RIs in remote areas: case study of the ESFRI's SKA facility in Radioastronomy
Michael Kramer, MPI Radio Astronomy, Germany

OGEMA – An open source concept for energy management in small and large scale
Sina Pezeshki, Fraunhofer Institute for Wind Energy and Energy System Technology, Germany

Financing Instruments for energy
Jean-David Malo, European Commission

16:30 - Coffee break

17:00 – Parallel sessions

17:00 – Parallel session ONE

Energy management, storage and quality at ESRF using fly-wheel systems
Jean-François Bouteille ESRF

On-site co-generation experience at Elettra
Andrea Galimberti, ELETTRA

SMES present status and future
Pascal Tixador, Institut Neel G-INP Grenoble

17:00 – Parallel session TWO

"Invest now vs supply later": a necessary combined approach for the RIs' shareholders
Kurt Clausen, PSI

Strategic sourcing in a liberalized Energy market
Jacques Adam, Exec. Vice-Presid, SUMMIT ENERGY

Energy Management at ITER
Ivone Benfatto, ITER International Organization

18:00 – End of the first day

19:30 – Drinks at ESS Exhibition, Stora Algatan 4

20:00 – Workshop Dinner

Friday, 14th October

9:00 – Parallel sessions

9:00 – Parallel session THREE (Chair: Frank Lehner, DESY)

Challenges in heat recycling systems and water savings (case studies, best practice on efficiency, optimization, solutions, implementations)

Experiences from heat and power recovery at RAL / ISIS

David Finlay, RAL

High temperature cooling loops at ESS and Max IV

Martin Gierow, Lunds Energi and Jonas Lindhe, Sydtotal

Concentrating solar power: Technologies, dual applications and the EU-Project SOLARIS

Christoph Richter, DLR and Plataforma Solar de Almeria

Second law, energy, and consequences on low-temperature heat-recovery

Michel Pons, CNRS-LIMSI

9:00 – Parallel session FOUR (Chair: Roberto Saban, CERN)

Energy supply: challenges in future technical solutions (case studies, best practice on efficiency, optimization, solutions, implementations)

Radiofrequency energy recovery studies at CERN

Fritz Caspers, CERN

Efficiency and heat recovery in accelerator design

Orion Henderson, University of British Columbia

Cryogenics design and operation at LHC: optimization and reduction of the energy consumption

Serge Claudet, CERN

A 60 MW power system with intermediate energy storage for a large pulsed load

Jean-Paul Burnet, CERN

11:00 Coffee break

Second plenary session (Chair: B. Vierkorn-Rudolph, Chair ESFRI and BMBF, Germany)

11:30 – Reports on the parallel sessions

Ake Kvick, MAX-IV (Session 1)

Keith Jeffery, STFC (Session 2)

Philippe Lebrun, CERN (Session 4)

NN, ESS (Session 3)

12:00 – Implications for industry and government

Tobias Krantz, Director of Education, Research and Innovation Policy at the Confederation of Swedish Enterprise and former Minister for Research and Education

12:30 – Business Lunch

Third plenary Session (Chair: F. Bordry, CERN)

13:30 – DESERTEC Energy/Science Partnership between Europe & North Africa/Middle East

Helmut Dosch, DESY

14:00 – The Argonne Sustainable Plan

Jerry Nolen, ANL

14:30 – Energy sustainability at ESS

Colin Carlisle, ESS

15:00 – Joint conclusions of the workshop – Farewell

Carlo Rizzuto, Chair ERF, in collaboration with ESS, CERN

Additional Information and (free) Application: www.esss.se/energyworkshop

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Location: Sparta Hotel and Conference Center (www.spartahotell.se)