



| Wednesday, 23 October 2013 |  | Thursday, 24 October 2013 |   | Friday, 25 October 2013 |   |
|----------------------------|--|---------------------------|---|-------------------------|---|
| 11:00                      | --- Registration ---   | 09:00                     | <b>Energy Management at Research Infrastructures (1)</b> - Parallel session A1 Serge Claudet (CERN) (until 10:30) (Main Auditorium)                         | 09:00                   | <b>Energy Efficiency Examples</b> -Parallel session B1 Mike Seidel (PSI) (until 10:35) (Council Chamber)  |
|                            |  | 09:00                     | Energy management at KEK, strategy on energy management, efficiency, sustainability - Atsuto Suzuki (KEK)   | 09:00                   | Boosting accelerator electrical efficiency at the ESRF - Jean-François Bouteille (ESRF)   |
|                            |  | 09:20                     | Energy management at Fermilab, strategy on energy management, efficiency, sustainability - Stephen Krstulovich (FNAL)                                       | 09:20                   | Valorization of low-grade waste heat - Felix Ziegler (TU Berlin)  |
|                            |  | 09:40                     | Energy management at BNL, strategy on energy management, efficiency, sustainability - Edward Murphy (BNL)   | 09:40                   | From eV to TeV: the Green ILC - Denis Perret-Gallix (Centre National de la Recherche Scientifique (FR))   |
|                            |  | 10:00                     | Energy management at DESY: strategy on energy management, efficiency, sustainability - Helmut Dösch (DESY)  | 10:00                   | Use of electricity at high-field magnet laboratories - Geert Rikken (LNCOMI)  |
|                            |  | 10:30                     | --- Coffee break ---  | 10:30                   | --- Coffee break ---  |
|                            |  | 11:00                     | <b>Energy Management at Research Infrastructures (2)</b> - Parallel session A2 Serge Claudet (CERN) (until 12:30) (Main Auditorium)                         | 11:00                   | <b>Energy Efficiency at Research Infrastructures</b> -Parallel session B2 MikeSeidel (PSI) (until 12:30) (Council Chamber)  |
|                            |  | 11:00                     | Energy management at CERN, strategy on energy management, efficiency, sustainability strategy - Helfried Burckhart (CERN)                                   | 11:00                   | Energy efficiency of particle accelerators – a network in the European program EUCARD-2 - Mike Seidel (PSI)   |
|                            |  | 11:20                     | Energy management at ESS, strategy on energy management, efficiency, sustainability strategy - Thomas Parker (European Spallation Source ESS AB)            | 11:20                   | Cryogenic waste heat utilization for DESY and European XFEL - Jens-Peter Jensen (DESY)  |
|                            |  | 11:40                     | Heat Recycling at PSI, a project to cover up to 75% of the campus' s heat consumption - David Reinhard (PSI)  | 11:40                   | Development of high-power IOTs as an efficient alternative to klystrons - Morten Jensen (ESS)   |
|                            |  | 12:00                     | Energy management at GSI and FAIR, strategy on energy management, efficiency, sustainability strategy - Jan Lindenberg (GSI)                                | 12:00                   | Energy reduction: example of a test facility upgrade with pulsed magnets instead of DC magnets, saving 90% of energy consumption - Konstantinos Papastergiou (CERN) |
|                            |  | 12:30                     | --- Lunch ---   | 12:30                   | --- Lunch ---   |
| 14:00                      | Welcome Speech - Rolf Heuer (CERN)   | 14:00                     | <b>Energy Efficiency in Computing Centres</b> - Parallel session A3 MikeAshworth (STFC) (until 15:30) (Main Auditorium)                                     | 14:00                   | <b>Sustainable Campus Development and Management</b> - Parallel session B3 Thomas Parker (European Spallation Source ESS AB) (until 15:30) (Council Chamber)        |
| 14:15                      | ERF Welcome on behalf of ERF - Carlo Rizzuto (ERF)   | 14:00                     | A Comprehensive Approach to Energy Efficiency in Data Centers for High-Performance Computing - Thomas C. Schulthess (CSCS)                                  | 14:00                   | Sustainability on Campus: Overview, Implementation and Outlook - Oliver Opel (Leuphana University)  |
| 14:30                      | Summary of the 1st Energy for Sustainable Science @ RI workshop - Thomas Parker (ESS)  | 14:20                     | Exploiting mobile phone technology to build energy efficient supercomputers: the Mont Blanc project - Simon McIntosh-Smith (University of Bristol)          | 14:20                   | The Green Campus project at University of Copenhagen -Tomas Refslund Poulsen (University Copenhagen)  |
| 14:45                      | Introduction of the 2nd Workshop - Frederick Bordry (CERN)   | 14:40                     | Roadmap towards Ultimately-Efficient Datacenters - Bruno Michel (IBM)   | 14:40                   | Experience in Implementing and installing co-generation and energy-saving schemes - Dr. Pitéra (Studio Vio)   |
| 15:00                      | <b>Plenary Talks</b> - Frederick Bordry (CERN) (until 18:30) (Main Auditorium)   | 15:00                     | Energy Savings in CERN main Data Centre - Wayne Salter (CERN)   | 15:00                   | CERN campus: mapping of the building versus energy consumption and an example of design and construction of a green building - Luigi Scibile (CERN)                 |
| 15:00                      | Renewable Energy in the present and in the future - Dolf Gielen (IRENA)  |                           |   |                         |   |
| 15:30                      | EU future strategies and policies - Andreea Strachinescu (EU Commission, Head of Unit New energy technologies, innovation, clean coal of DG Energy)  | 15:30                     | --- Coffee break ---  | 15:30                   | --- Coffee break ---  |
| 16:00                      | Energy management in Japan. Consequences for RIs - Masakazu Yoshioka (KEK)   | 16:00                     | <b>Energy Quality and Operation</b> - Parallel session A4 Jens-Peter Jensen (DESY) (until 17:30) (Main Auditorium)  | 16:00                   | <b>Green Technologies developed at Research Infrastructures</b> - Parallel session B4 Fritz Caspers (CERN) (until 17:30) (Council Chamber)                          |
| 16:30                      | --- Coffee break ---   | 16:00                     | High temperature cooling of cryoplant and klystrons - JohnJurns (ESS)   | 16:00                   | Superconducting Links for the LHC machine - Amalia Ballarino (CERN)   |
| 17:00                      | Research, Education and Innovation Bundling Forces towards a Sustainable European Energy Future - Karl-Friedrich Ziegahn (Karlsruhe Institute of Technology, Chief Science Officer KIC InnoEnergy SE, Chairman of the Supervisory Board) | 16:20                     | Three years of operation of the Elettra tri-generation plant - Roberto Visintini (Elettra - Sincrotrone Trieste)  | 16:20                   | ORC process for reducing power consumption at the energy recovering electron cooler system for FAIR - Kurt Aulenbacher (Johannes Gutenberg-University Mainz)        |
| 17:30                      | Sustaining networks: technologies and people towards new paradigms. - Fiorenzo Gallì (National Museum of Science and Technology Milan)   | 16:40                     | SMES usage and power grid applications at RIs - Hans-Joerg Eckholdt (DESY)  | 16:40                   | Development of new high slow-put and high energy-efficient power supplies for J-Parc upgrade - Yoshinori Kurimoto (J-PARC)  |
| 18:00                      | Design and efficiency of Data Centres - Eshaan Farsimadan (Romonet)  | 17:00                     | Advanced Simulation tools in support of the design of the Power System architecture of the European Spallation Source (ESS) - Antonello Monti (RWTH Aachen) | 17:00                   | The High Efficiency SRB Solar Thermal Collector: A by-product of the CERN Accelerator Technologies - Cristoforo Benvenuti (SRB Energy)                              |
|                            |  | 19:00                     | --- Workshop Buffet ---   | 19:00                   | --- Workshop Buffet ---   |