



# September 25<sup>th</sup>, Wednesday

Time	Event
12:00 – 14:00	<b>Open registration</b>

<b>Plenary Session 1: Auditorium</b>	
Chairman: <b>J. M. Pérez</b>	
Time	Event
14:00 – 14:10	<b>Y. Benito</b> <i>Welcome Address</i>
14:10 – 14:20	<b>F. Bordry</b> <i>Introduction to the workshop</i>
14:20 – 14:30	<b>C. Oliver</b> <i>Practical Information</i>
14:30 – 15:00	<b>O. Renn</b> <i>The role of Natural and Social Sciences for Transdisciplinary Research and Implementation in the Energy Transition</i>
15:00 – 15:30	<b>J. R. Ayuso</b> <i>Research and testing platforms and technology demonstrator projects in Spain on offshore wind and marine energy</i>

Time	Event	Page
15:30 – 16:00	<b>Coffee break</b>	

<b>Plenary Session 2: Auditorium</b>	
Chairman: <b>J. L. Revol</b>	
Time	Event
16:00 – 16:20	<b>A. Weeks</b> <i>Challenges in Energy Management (ESRI Forum)</i>
16:20 – 16:40	<b>B. Schiraldi, A. Emrick</b> <i>Energy Management at Brookhaven National Laboratory and other US Science Laboratories</i>
16:40 – 17:00	<b>T. Roser</b> <i>ICFA Strategy on Sustainability</i>
17:00 – 17:20	<b>F. Pérez</b> <i>Sustainability for European Light Sources</i>
17:20 – 17:40	<b>R. Mahbubani</b> <i>Environmental sustainability in basic research: a perspective from HECAP+</i>
17:40 – 18:30	<i>Discussion Session</i>

Time	Event
18:30 – 20:30	<b>Welcome Reception &amp; Student Poster Session</b>

# September 26<sup>th</sup>, Thursday

## Plenary Session 3: Auditorium

Chairman: **L. Tchelidze**

Time	Event
9:00 – 9:30	<b>A. Pautz</b> <i>SMR, Small Modular Fission Reactors</i>
9:30 – 10:00	<b>J. D'Hondt</b> <i>ISAS Project</i>



## Parallel Session 1: Energy-efficient technologies. Experiences. (Auditorium)

Chairman: **S. Claudet**

Time	Event
10:15 – 10:35	<b>B. Auchmann</b> <i>Superconducting Magnet Technology for Future Sustainable Accelerators</i>
10:35 – 10:55	<b>T. Winkler</b> <i>High Temperature Superconducting Magnets for Sustainability Upgrades of Accelerators</i>
10:55 – 11:15	<b>C. Pira</b> <i>Developments towards energy efficient superconducting RF systems</i>
11:15 – 11:35	<b>C. Haberstroh</b> <i>Cryogenic refrigeration efficiency over a large range of temperature</i>
11:35 – 12:05	<b>Coffee break &amp; Photo – Venue Entrance Hall</b>
12:05 – 12:25	<b>S. Brooks</b> <i>Permanent Halbach magnets for ERLs and synchrotron light sources</i>
12:25 – 12:45	<b>M. Statera</b> <i>High power (GW range) modular superconducting transmission line cables</i>
12:45 – 13:05	<b>K. Kahle</b> <i>Efficient Powering at CERN: Past, Present and Future</i>
13:05 – 13:25	<i>Discussion Session</i>

## Parallel Session 2: Life Cycle evaluation. (Classroom-IA.01)

Chairman: **D. Völker**

Time	Event
10:15 – 10:35	<b>D. Völker</b> <i>Introduction of the Session - overview assessment approaches</i>
10:35 – 10:55	<b>R. Losito</b> <i>Life Cycle Assessment at CERN</i>
10:55 – 11:15	<b>M. Titov, C. Bloise</b> <i>General Life cycle analysis in EU colliders - Working Group on "Sustainability Assessment of Accelerators"</i>
11:15 – 11:35	<b>E. Nanni</b> <i>Sustainability Strategy for the Cool Copper Collider</i>
11:35 – 12:05	<b>Coffee break &amp; Photo – Venue Entrance Hall</b>
12:05 – 12:25	<b>B. Shepherd</b> <i>Accelerator Impact Report: RUEDI</i>
12:25 – 12:45	<b>J. Völker</b> <i>Decreasing the footprint for a new SR facility (Bessy III)</i>
12:45 – 13:05	<b>A. Klumpp</b> <i>Detailed life cycle assessment for a power supply</i>
13:05 – 13:25	<i>Discussion Session</i>

Time	Event
13:25 – 14:55	<b>Lunch break</b>

## Parallel Session 3: Energy and sustainability on Future Research Project. (*Auditorium*)

Chairman: **T. Roser**

Time	Event
14:55 – 15:15	<b>J-P. Burnet</b> <i>Energy management and sustainability aspects for FCC</i>
15:15 – 15:35	<b>T. Vijaya Kumar (Videoconference &amp; Presence)</b> <i>Electron Ion Collider energy consumption and sustainability</i>
15:35 – 15:55	<b>P. Winkler, A. Maier</b> <i>Plasma-based injector for PETRA IV</i>
15:55 – 16:15	<b>M. Gibbs (Videoconference)</b> <i>Power consumption at SLAC</i>
16:15 – 16:45	<b>Coffee break</b>
16:45 – 17:05	<b>G. De Carne</b> <i>Addressing Energy Responsibility in Particle Accelerators: Insights from the KITTEN Research Platform</i>
17:05 – 17:25	<b>W. Riegler</b> <i>Design of detectors for future colliders (FCC)</i>
17:25 – 17:45	<b>M. Marsella</b> <i>Sustainability in Einstein Telescope</i>
17:45 – 18:05	<i>Discussion Session</i>
18:05 – 18:15	<i>Closeout</i>

## Parallel Session 4: Energy management at research infrastructures. (*Classroom-1A.01*)

Chairman: **R. Losito**

Time	Event
14:55 – 15:15	<b>F. Abusaif</b> <i>Key technologies for energy efficient and sustainable accelerators: a survey from shareholders</i>
15:15 – 15:35	<b>T. Warnecke</b> <i>Optimized tunnel climatization for PETRA IV</i>
15:35 – 15:55	<b>P. Petagna</b> <i>CO2 for detector cooling at CERN</i>
15:55 – 16:15	<b>S. Claudet</b> <i>Heat recovery at CERN, from a first multi-MW case to a generalised approach</i>
16:15 – 16:45	<b>Coffee break</b>
16:45 – 17:05	<b>N. Sapountzoglou, R. Vasapollo</b> <i>Fast measurement systems: how to increase the power quality in accelerator energy grids</i>
17:05 – 17:25	<b>R. Van Der Meer (Videoconference)</b> <i>A perspective talk on decarbonisation of the cement industry</i>
17:25 – 17:45	<b>F. Ferrand</b> <i>Helium management as part of sustainability</i>
17:45 – 18:05	<b>S. Ücer</b> <i>FlexRICAN EU Project: Flexibility for Research Infrastructures for global CARbon Neutrality</i>
18:05 – 18:15	<i>CloseOut</i>



Time	Event
18:30 – 18:45	Group formation for Guided Tour
18:45 – 20:30	Walking Tour
20:30 – 23:00	<b>Social dinner: <a href="#">Posada de la Villa</a></b>



# September 27<sup>th</sup>, Friday

## Plenary Session 4: Auditorium

Chairman: **J.M. Pérez**

Time	Event
9:00 – 9:15	<b>S. Claudet</b> <i>Summary: Energy-efficient technologies. Experiences</i>
9:15 – 9:30	<b>D. Völker</b> <i>Summary: Life cycle evaluation</i>
9:30 – 9:45	<b>T. Roser</b> <i>Summary: Energy and Sustainability on Future Research Projects</i>
9:45 – 10:00	<b>R. Losito</b> <i>Summary: Energy management at Research Infrastructures</i>
10:00 – 10:30	<b>D. Obradors</b> <i>Summary: Outcome from the students view</i>

Time	Event
10:30 – 11:00	<b>Coffee break</b>

## Plenary Session 5: Auditorium

Chairman: **M. Seidel**

Time	Event
11:00 – 11:30	<b>M. Lafoz</b> <i>Energy Storage: an alternative to increase reliability in power systems and facilities</i>
11:30 – 12:00	<b>C. Hidalgo</b> <i>Fusion energy for society: challenges and opportunities to make our dreams a reality</i>
12:00 – 12:15	<b>J.M. Pérez</b> <i>Closing remarks and next workshop</i>

Time	Event
12:15 – 13:15	<b>Stand-up lunch</b>
13:15 – 15:15	CIEMAT guided tour: TJ-II thermonuclear fusion device, “Stellerator”