

ESA Power Workshop 2025

Tuesday 8 April 2025

Energy Storage and Nuclear Power: Introduction - Tennis Hall (09:15 - 09:30)

-Conveners: AURORE CARRE

Energy Storage and Nuclear Power: Batteries Session 1: SAFT VL10ES Cell & Battery Qualification (Saft) - Tennis Hall (09:30 - 10:00)

-Conveners: Yannick Borthomieu; Hélène Tricot

Energy Storage and Nuclear Power: Batteries Session 1: Design of Containment Techniques for Batteries Stored Energy at the EoL (Ineris) - Tennis Hall (10:00 - 10:30)

-Conveners: Caroline Gaya

Energy Storage and Nuclear Power: Batteries Session 1: New Methodology for Accelerated Assessment of Battery Cell Performances (CTC) - Tennis Hall (10:30 - 11:00)

-Conveners: Alejandro Pérez Nuñez

Energy Storage and Nuclear Power: Batteries Session 2: Li-Ion Battery Technology for Low-Temperature Range (Saft) - Tennis Hall (11:45 - 12:15)

-Conveners: Yannick Borthomieu

Energy Storage and Nuclear Power: Batteries Session 2: Update on Active Battery Management (Aytana) - Tennis Hall (12:15 - 13:00)

-Conveners: Miguel Angel Jimenez

Energy Storage and Nuclear Power: Fuel Cells Session: Overview of fuel cell related technology developments at ESA: a Roadmap - Tennis Hall (14:00 - 14:10)

-Conveners: Brandon Buergler

Energy Storage and Nuclear Power: Fuel Cells Session: Lunar Night Survival Regenerative Fuel Cell System Development to TRL 5 (CERTH) - Tennis Hall (14:10 - 14:30)

-Conveners: Dimitris Tsiplakides; Stella Balomenou

Energy Storage and Nuclear Power: Fuel Cells Session: Progress on Lunar Night Survival Regenerative Fuel Cell System Development to TRL 5 at Air Liquide Advanced Technologies (ALAT) - Tennis Hall (14:30 - 14:50)

-Conveners: Luc Littré

Energy Storage and Nuclear Power: Fuel Cells Session: Electrochemical Oxygen Pumping Technologies for Regenerative Fuel Cells and Other Uses (Omnidea) - Tennis Hall (14:50 - 15:10)

-Conveners: Jorge Barreto

Energy Storage and Nuclear Power: Fuel Cells Session: Surviving the Martian dust storm, presentation of the activity “Development of an Engineering Model of a Regenerative Fuel Cell System for Power Generation on Mars (NORCE) - Tennis Hall (15:10 - 15:30)

-Conveners: Veronika Reckova; Ivar Wærnhus

Energy Storage and Nuclear Power: Nuclear Power Session: Roadmap (Endure) - Tennis Hall (15:45 - 16:05)

-Conveners: Pierre Coquay

Energy Storage and Nuclear Power: Nuclear Power Session: Radioisotope Thermoelectric Generator (University of Leicester) - Tennis Hall (16:05 - 16:25)

-Conveners: Christophe Fongarland

Energy Storage and Nuclear Power: Nuclear Power Session: Radioisotope Thermo-Acoustic Linear Induction Generator (Deep Space Energy) - Tennis Hall (16:25 - 16:45)

-Conveners: Mihails Ščepanskis

Energy Storage and Nuclear Power: Nuclear Power Session: Nuclear Radioisotope Production Activities and Development of Low TRL Systems - Tennis Hall (16:45 - 17:00)

-Conveners: Stephanie Barron

Energy Storage and Nuclear Power: Wrap-up Session: Technologies Complementarity - Tennis Hall (17:00 - 17:30)

-Conveners: Geraldine Palissat