

# StoRIES – FLORES – EERA JP ES WORKSHOP ON APPLICATIONS FOR HYBRID ENERGY STORAGE

23 March 2023

|       |   |   |
|-------|---|---|
| 09:00 | <b>StoRIES - FLORES - EERA JP ES Workshop on Applications for Hybrid Energy Storage</b>   |   |
|       |   | <b>Chair: Stefano Passerini (KIT/Sapienza University of Rome)<br/>Myriam Gil Bardají (KIT)</b>  |
| 09:00 | Welcome KIT   | Joachim Knebel (KIT), Head of Division Mechanical and Electrical Engineering  |
| 09:10 | European initiatives on hybrid energy storage   | Stefano Passerini (KIT/Sapienza University of Rome), StoRIES project coordinator  |
| 09:20 | Hybrid energy storage systems: challenges of grid connected storage   | Magdalena Graczyk-Zajac (EnBW), Project Leader R&D  |
| 09:40 | Recent Commission policy developments on energy storage   | Balazs Jozsa (EC), DG Energy (online)   |
| 09:50 | Energy Storage in Europe – challenges and opportunities   | Johan Blondelle (EC), Policy Officer DG Research&Innovation (online)  |
| 10:00 | Research and innovation trends in mid to long duration energy storage: The role of systems and processes integration  | Antonio Marco Pantaleo (EIC), Programme Manager and Green Tech<br>Francesco Matteucci (EISMEA), Program Manager in Advanced Materials for Energy and Environmental Sustainability |
| 10:15 | Enabling R&I breakthroughs to support a world-class European Research and Industrial Ecosystem on Hybrid Energy Storage Technologies  | Roberto Scipioni (SINTEF Energy Research), Research Scientist, StoRIES T3.3 Leader  |
| 10:30 | Coffee break  |   |
| 10:55 | Industry panel discussion<br>Magdalena Graczyk-Zajac, EnBW (Energy provider, DE)<br>Joseph Epoupa Mengou, Eni (Energy provider, IT)<br>Sebastian Pohlmann, Skeleton (Supercapacitor producer, EE)<br>Thomas Lüth, Voith Group (Pumped storage), DE)<br>Michael Pinzl, CellCube (Redox Flow Battery producer, AT)<br>Kourosh Malek, FZ Jülich (Hydrogen, DE) | <b>Moderator:</b><br><b>Peter Fischer (Fraunhofer ICT)</b><br><b>Christina Schubert (Voith Group)</b>   |
| 11:55 | Organisational briefing for the afternoon   | Alexandra Lex-Balducci (KIT, StoRIES project management team)   |
| 12:10 | Lunch   |   |

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| 13:10 | <b>Site visits</b>  |   |
|       | <b>Presentation about BiFlow/STAGE76</b>  |   |
|       | <b>Visit BiFlow/STAGE76</b>   |   |
|       | <b>Visit demonstrator Fraunhofer ICT</b>  |   |
| 15:30 | Coffee break  |   |
|       |   | <b>Chair: Peter Fischer (Fraunhofer ICT)/Alexandra Lex-Balducci (KIT)</b>   |
| 16:00 | Welcome Fraunhofer ICT  | Stefan Tröster (Fraunhofer ICT), Head of Department for General Management  |
| 16:10 | Preparation group work  | Peter Fischer (Fraunhofer ICT)/Alexandra Lex-Balducci (KIT)                 |
| 16:20 | Group work: 4 groups  |   |
| 17:40 | Coffee break/Preparation of presentations of the outcome  |   |
|       |   | <b>Chair: Alexandra Lex-Balducci (KIT)/Peter Fischer (Fraunhofer ICT)</b>   |
| 18:00 | Presentation of the outcome Group 1/2/3/4   | Rapporteurs   |
| 18:40 | 3rd StoRIES Transnational Access (TNA) call   | Olga Suminska-Ebersoldt (KIT, StoRIES project management team, WP 2 leader) |
| 18:45 | Discussion and closing remarks  | Alexandra Lex-Balducci (KIT)/Peter Fischer (Fraunhofer ICT)                 |
| 19:00 | <b>End of meeting</b>   |   |
| 19:00 | Get-together with social match-making event for Horizon Europe calls @ Fraunhofer ICT, Pfinztal |   |
| 21:15 | <b>Bus transfer to Karlsruhe</b>  |   |

## StoRIES' Definition „Hybridisation of Energy Storage“

Hybridisation for energy storage refers to the utilisation of two or more energy storage technologies together on either a system, device, or material level to provide technical and economic advantages beyond what any single energy storage technology can provide, also considering the sustainability

This definition of hybridisation, developed during the preparation of the StoRIES Roadmap and SRIA, will be presented, discussed, and validated at the workshop. You are invited to read it carefully and form an opinion on whether you agree with this definition. All opinions are welcome in the discussions during the workshop.