

Joint EASE-EERA Recommendations for a EUROPEAN ENERGY STORAGE TECHNOLOGY DEVELOPMENT ROADMAP TOWARDS 2030 – UPDATE

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- The **European Association for Storage of Energy (EASE)** is the voice of the industrial energy storage community, actively promoting the use of energy storage in Europe and worldwide. EASE supports the deployment of energy storage as an indispensable instrument to improve the flexibility of and deliver services to the energy system
- The **EERA JP on Energy Storage** strongly fosters the efficient development of new energy storage technologies and supports the SET-Plan objectives and priorities by “pooling and integrating activities and resources including international partners” on all levels of the value chain.



Updated EASE/EERA European Energy Storage Technology Development Roadmap

1. Summary
2. Foreword
3. Methodology and Overview
4. European Policy as a Driver for Energy Storage Demand
5. Mission and Objectives of the Roadmap
6. Additional sources of Demand for Energy Storage
7. Technologies and Competencies in Focus
 1. Chemical Energy Storage
 2. Electrochemical Energy Storage: Batteries
 3. Electrical Energy Storage:
 - Capacitors (Supercapacitors)
 - Superconducting Magnetic Energy Storage
 4. Mechanical Energy Storage:
 - Compressed Air Energy Storage
 - Flywheel Energy Storage
 - Liquid Air Energy storage
 - Pumped Hydro Storage
 5. Thermal Energy Storage:
 - Sensible Heat Storage
 - Latent Heat Storage
 - Thermochemical Heat Storage
8. Market Design and Policy Recommendations
9. Recommendations and Proposed Timeline for Activities

- In order to accelerate the development of energy technologies to the point where they can be embedded in industry-driven research, a joint effort between research and industry is necessary. With this goal in mind, **EASE and EERA first collaborated in 2013 to publish the first joint Technology Development Roadmap on Energy Storage.** This Roadmap aimed to describe the future European needs for energy storage (2020-2030) giving also recommendations on which development will be required to meet the needs.
- Since in the last three years several technical breakthroughs in storage technologies have taken place, an update of the roadmap and recommendations is foreseen by the end of 2016. The joint EASE/EERA Technology Development Roadmap on Energy Storage is a good **example of best practices to promote the IP transfer/exchange to industry.**