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1The documentation and analysis of the market development of selected storage technologies is based on research of the literature, expert interviews, evaluations of available statistics and empirical data collection.

Research topics in the field of energy storage range from developing new materials to experimenting with entirely new storage approaches for fixed and mobile applications. Following we present various new research projects carried out within the funding programmes of bmvit and Climate & Energy Fund.

Various technologies are used to store electricity and heat:> Mechanical devices (flywheel, pumped-storage power station, compressed-air storage facility)> Chemical systems (accumulators, lithium-ion battery or redox-flow battery, hydrogen)> Electrical storage systems (capacitor, superconducting magnetic energy storage)> Thermal storage systems (latent, sensible or thermo-chemical heat storage)

Efficient and reliable energy storage systems are central building blocks for an integrated energy system based 100% on renewable energy sources. Innovative storage technologies and new fields of application for the use of energy storage systems are being researched and demonstrated in practical operations as part of national and international research and development activities.

Photo: ABS4TSO battery storage system:In the ABS4TSO (Advanced Balancing Services for Transmission System Operators) project, intelligent battery storage systems and other rapidly controllable technologies are used to demonstrate ways of stabilizing the domestic and European electricity transmission network of the future. Project Partners: Austrian Power Grid (project coordination), Austrian Institute of Technology (AIT), TU Wien, VERBUND. (see energy innovation austria Issue 1/2021)

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