In this issue

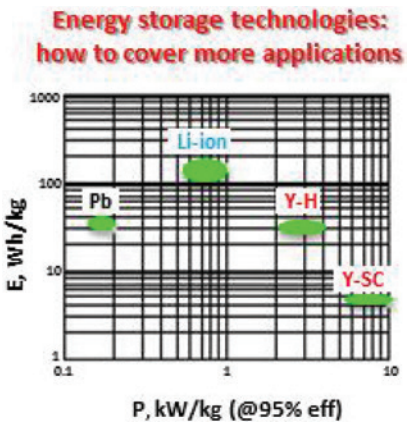
Y. Maletin, N. Stryzhakova, S. Zelinsky, S. Chernukhin, D. Tretyakov, S. Tychina and D. Drobny

Electrochemical Double Layer Capacitors and Hybrid Devices for Green Energy Applications

DOI 10.1515/green-2014-0002
Green 2014; 4(1–6): 9–17

Mini-Review: Specific energy vs power (@95% efficiency) for various storage technologies: Pb/acid or Li-ion batteries, Yunasko-hybrid or Yunasko-supercapacitor.

Keywords: supercapacitors, hybrid devices, nanosized carbons, energy storage



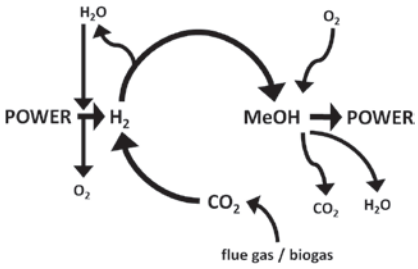
Karsten Müller, Florian Fabisch and Wolfgang Arlt

Energy Transport and Storage using Methanol as a Carrier

DOI 10.1515/green-2013-0028
Green 2014; 4(1–6): 19–25

Original Article: Energy storage using methanol is an option for stationary applications as well as for mobility. The efficiency of the process chain has been evaluated and different scenarios are discussed.

Keywords: methanol, energy storage, efficiency, energy transport



Neuhaus Arndt*, Drake Frank-Detlef, Hoffmann Gunnar and Schulte Friedrich

A Perspective on Energy Storage and Other Means to Integrate Increasing Shares of Renewable Electricity Generation

DOI 10.1515/green-2014-0001
Green 2014; 4(1–6): 41–48

Expert View from Industry: Facing an increasing share of RES several options are technically suitable to compensate stochastic RES-feed-in. Which one will make the race in terms of economic efficiency? Source: RWE, Fraunhofer

Keywords: energy storage, chemical conversion, renewable energies