



DIVISION OF RATEPAYER ADVOCATES

Panel 2: Energy Storage Applications and Economics

Ratepayer Perspective on Viable and Cost-Effective Energy Storage Systems

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DOCKET

11-IEP-1N

DATE Apr 28 2011

RECD. May 03 2011

2011 Integrated Energy Policy Report Committee
Workshop on Energy Storage for Renewable Integration
Sacramento, CA
April 28, 2011

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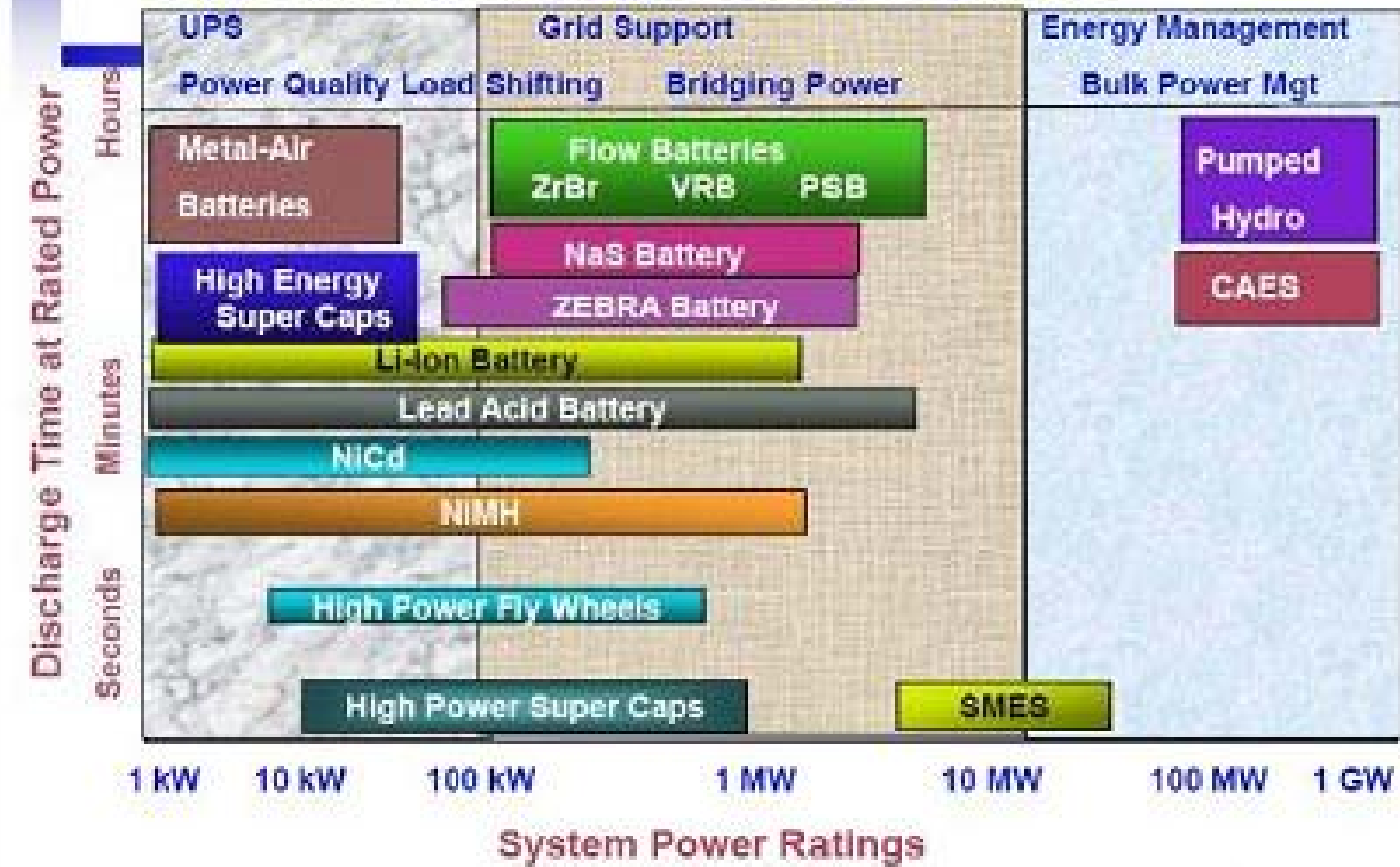
BACKGROUND

- Assembly Bill 2514 requires the CPUC to open a proceeding “to determine appropriate target, if any, for viable and cost-effective energy storage.”
- CPUC Initiated an Order Instituting Rulemaking (OIR) on December 21, 2010 (R.10-12-007)
- Pre-Hearing Conference was held on April 21.
- A PUC scoping ruling is expected in the coming weeks.





Our Current Energy Storage Options





Energy storage has many benefits

- **Facilitate renewable intermittent resources**
- **Reduce the need to build or upgrade transmission lines.**
- **Improved power quality**
- **Ancillary services**
- **Lower GHG and other emissions**





Implementing Energy Storage

- **Wide variety of applications/requirements**
- **AB 2514 requires that storage be “ viable and cost-effective”**
- **Storage needs should be identified by application type annually in the CPUC long-term proceedings.**
 - **Use of Plug-in Vehicles as distributed storage resources**
 - **Dynamic Pricing / TOU Rates**
 - **Potential Inclusion of storage in the loading order**





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Other DRA Recommendations

- **California should take gradual steps towards energy storage regulations**
- **DRA recommends not mandating specific storage targets.**
- **Energy Storage should be compared to other options for viability and cost**

