

Mohr Davidow Ventures



Berkeley Stanford Cleantech Conference – Energy Storage
May 2009

- **Founded in 1983**
- **\$2 billion under management**
- **~20 investing professionals**
- **Investment sectors:**
 - Cleantech
 - Information Technology
 - Life Sciences
- **100+ funded companies**

Rambus.

 **nanosolar**

hi5.

ZeaChem

 **BROCADE**

 **shutterfly.**

 **PACIFIC
BIOSCIENCES™**

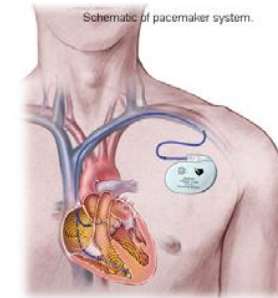
Consumer electronics



Power tools



Medical devices

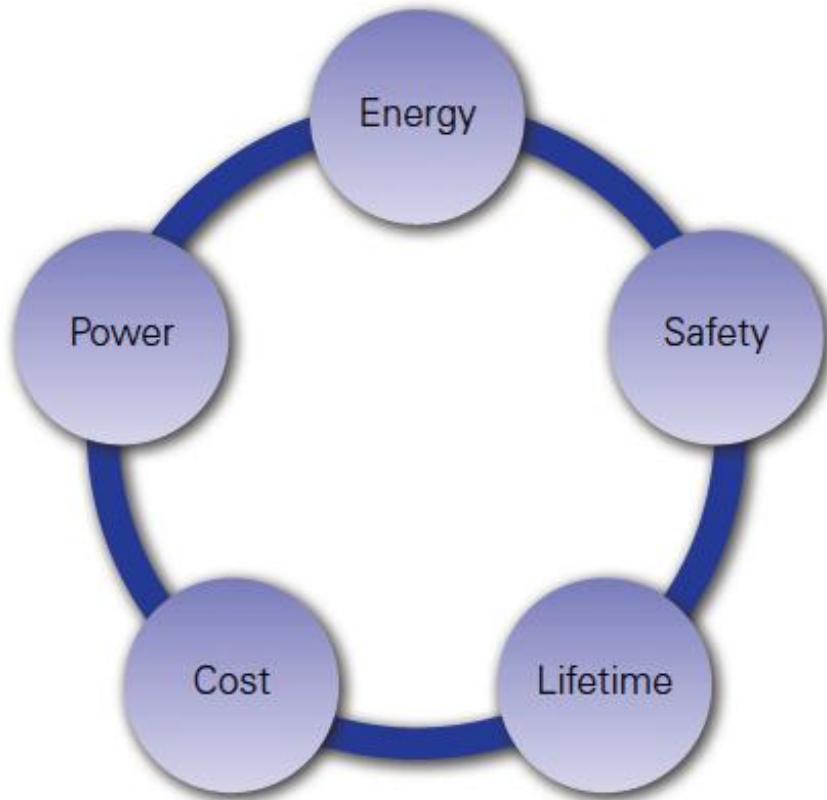


Electric Vehicles



Stationary energy storage

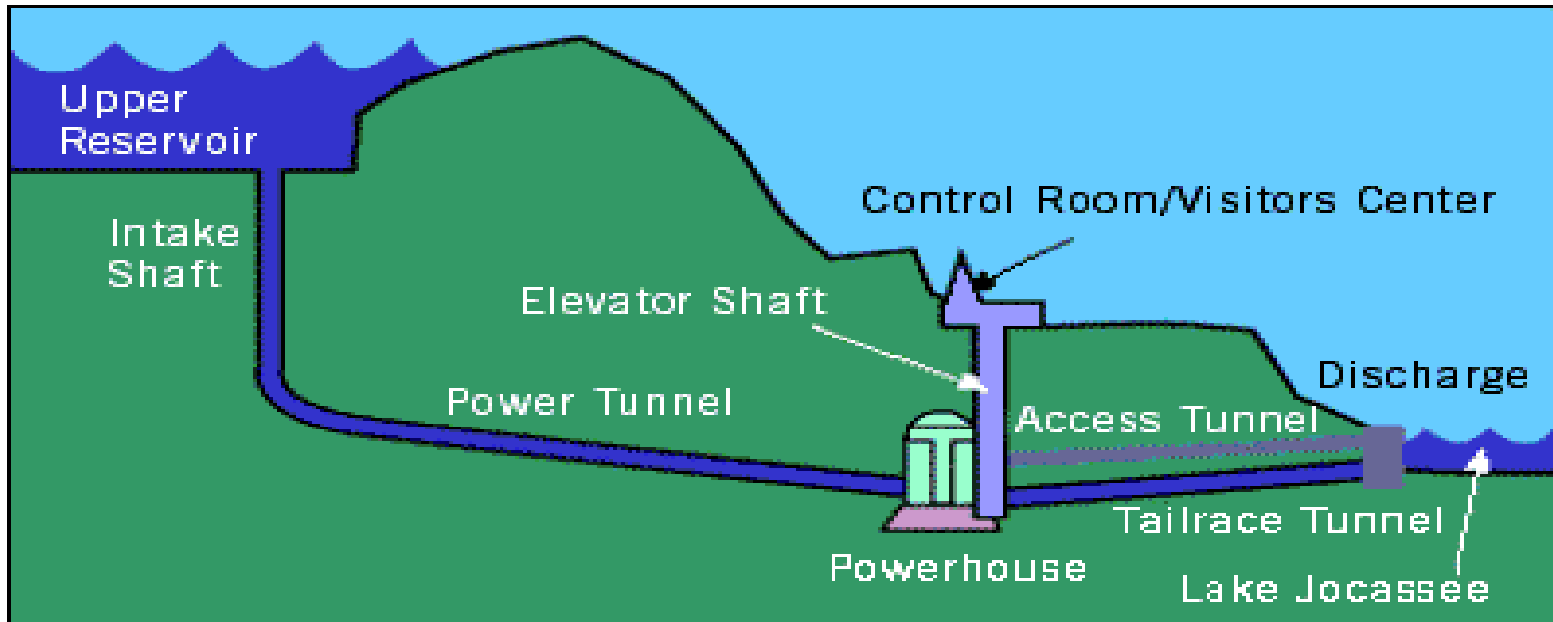




- **Trade-offs among different performance criteria**
- **Different applications require different solutions**

- **Allows low value baseload and intermittent power to be deployed at peak load**
- **Makes renewable energy dispatchable**
- **Smooths out transient supply/demand mismatches in the grid**
- **Provides backup power during interruptions in supply**

Pumped Hydro is state-of-the art today



- **85+ % efficient**
- **High energy capacity (tens of thousands of MWh)**
- **High power (GW scale)**
- **Long discharge**
- **Long lifetime / excellent cycle lifetime**
- **Limited sites available**

Source: HECO

Will Batteries Get there?



Source: HECO

- **9.6 MW x 6 hr (57.6 MWhr) Sodium Sulfur battery**
- **Good cycle lifetime and efficiency**
- **Way too expensive! ~\$4M/ MW**
- **Target \$1/ W for a 5 hr system**



Thank You

**For more information
visit www.mdv.com**

Marianne Wu

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