National Hydro AssociationConference

Legislative Panel

John Cohen
VP Government Affairs
April 22, 2013

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The Challenge – It's not a level playing field

Federal Renewable Electricity Production Tax Credit (PTC) – hydropower only receives 1/2 of the PTC
And Pumped Storage doesn't qualify

Resource Type	In-Service Deadline	Credit Amount
Wind	December 31, 2012	2.2¢/kWh
Closed-Loop Biomass	December 31, 2013	2.2¢/kWh
Open-Loop Biomass	December 31, 2013	1.1¢/kWh
Geothermal Energy	December 31, 2013	2.2¢/kWh
Landfill Gas	December 31, 2013	1.1¢/kWh
Municipal Solid Waste	December 31, 2013	1.1¢/kWh
Qualified Hydroelectric	December 31, 2013	1.1¢/kWh
Marine and Hydrokinetic (150 kW or larger)**	December 31, 2013	1.1¢/kWh

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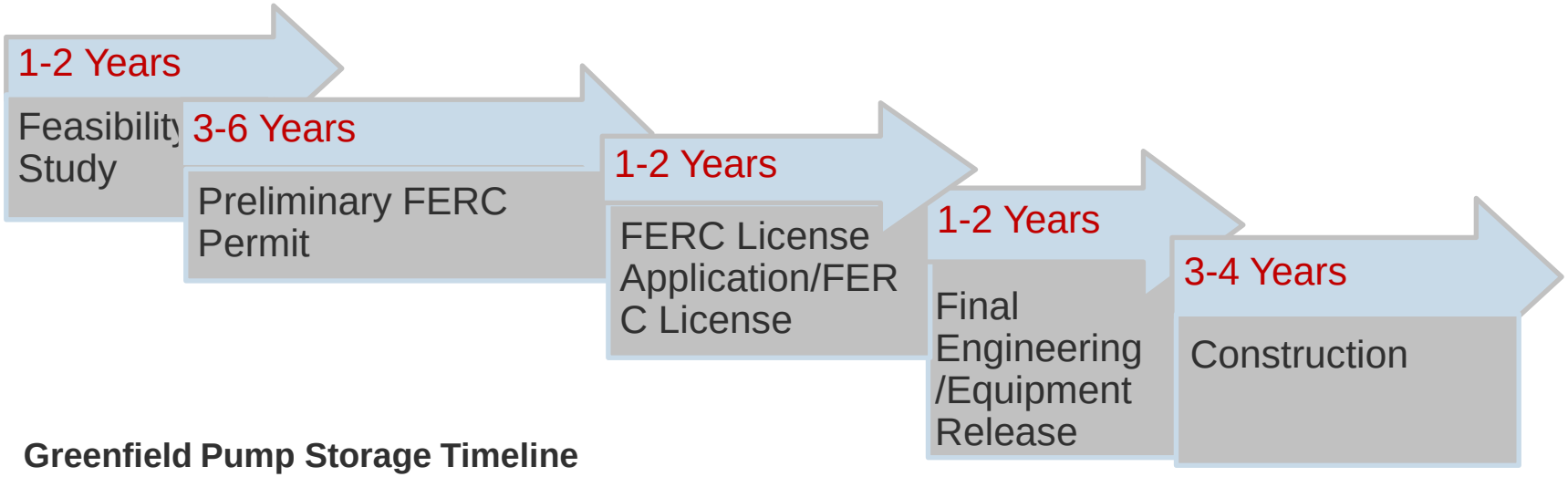
New Pumped Storage

- Investment needs to be viewed as Long Term vs. Short Term
- Important to plan now even though the economics of pumped storage versus low gas prices may not be favorable to pumped storage in today's market
- Forecasted need for capacity, ancillary services and renewable energy integration services in the US
- No other proven utility grade storage available except for Pumped Storage



Greenfield Pump Storage Timeline

From Inception to Operation takes 9 to 16 years

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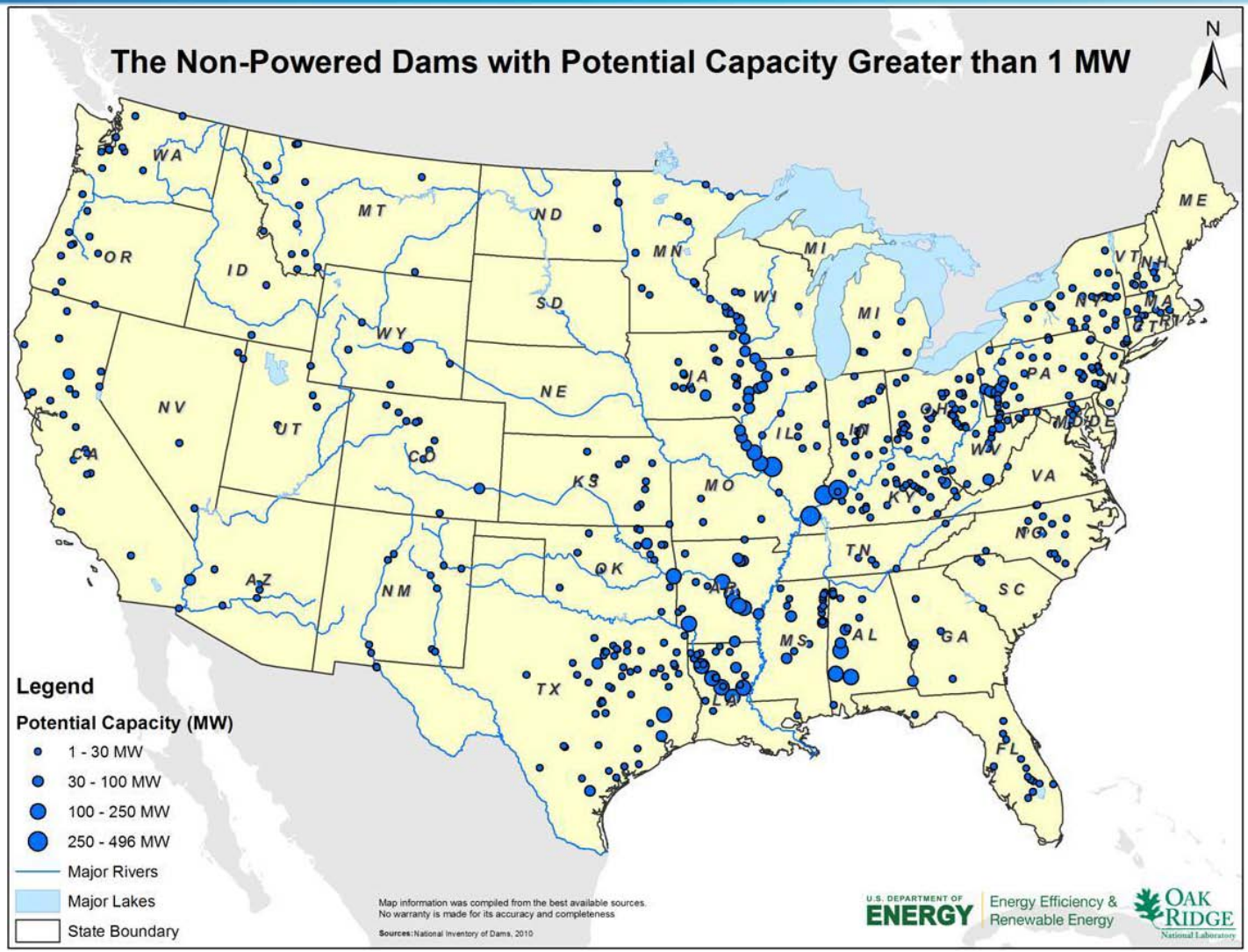
US – Untapped Potential in Non Power Dams



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New Ways to Harness Hydro

Wave

Tidal

Alstom tidal text rig – Nantes, France

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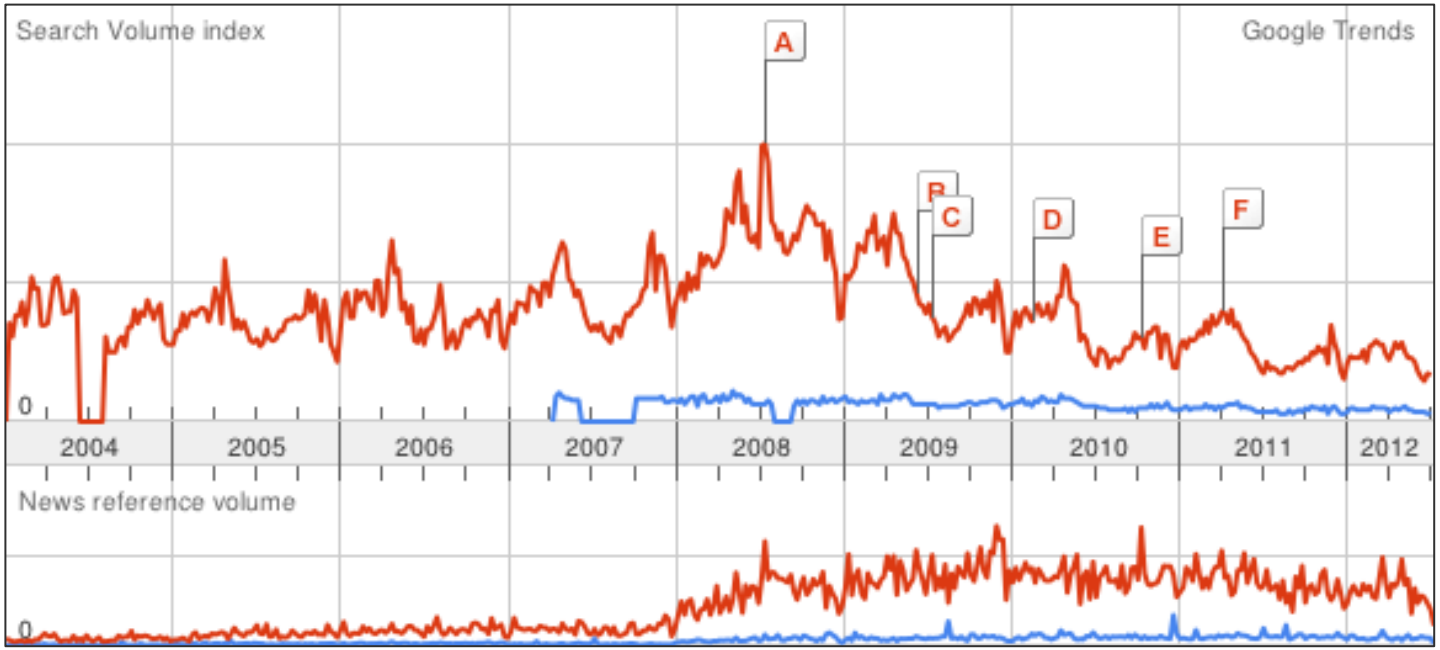
Hydro – The Silent Renewable

- Tracking the discussion…



Google Search Volumes

"wind power" and "hydro power" – 2004-12.

*Hydro generates **15%** of the energy in U.S. & Canada, but wind at **3%** gets more than **10x** the attention*

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Hydropower: A Clean Energy Solution

- **It's time to give Hydro a louder voice!**
  - Engage the public – personally and professionally
  - Engage policy makers – give them Hydro facts
  - Strengthen outreach of our industry associations
  - Embrace & educate our communities
    - Facts & hands-on experience w/hydro
  - Position Hydro as the reliable **'balancing partner'** for other clean energies

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