

National Hydropower Association

Hydropower's Contribution in Responding to Climate Change



About NHA

- NHA is a nonprofit national association dedicated exclusively to advancing the interests of the U.S. hydropower industry, including the new waterpower technologies – ocean, tidal and instream hydrokinetic power.
- Ocean, Tidal and New Technologies Council



Growth Potential – Busting a Myth

- Number one hydropower myth – resource is tapped out.
- 2007 EPRI report demonstrates overall growth potential at **85,000 to 95,000 MW** with 23,000 MW available by 2025.



Growth by the Numbers

- 23,000 MW by 2025
 - 10,000 MW overall conventional hydro potential
 - 5,000 - hydro at existing non-powered dams
 - 2,700 - new small and low-power projects
 - 2,300 - capacity gains at existing hydro sites
 - 13,000 MW overall new waterpower potential
 - 10,000 - ocean and wave energy devices
 - 3,000 - instream hydrokinetic technologies



Policy Investments Critical To Success

- Continued growth is tied to:
 - Tax incentives (PTC and CREBs)
 - Climate policy
 - R&D support
 - Reinvention of regulatory scheme, particularly for new technologies



Tax Incentives

- Section 45 Production Tax Credit (PTC)
 - Long-term extension - 5 years minimum is needed
 - Credit parity
 - Inclusion of additional hydro at non-hydro dams
 - Inclusion of ocean, tidal and instream hydrokinetic technologies



Climate Program

- Ensure hydropower and new waterpower resources are recognized, credited and are eligible to participate throughout any climate program.
 - Set aside programs (i.e. new entrants)
 - Offsets program
 - Auction proceeds that may be directed to clean energy development and deployment



Renewable Portfolio Standard

- RPS – federal program should include more hydropower resources.
 - Incremental hydropower
 - Hydropower at non-hydro dams
 - Ocean, tidal and instream hydrokinetic technologies

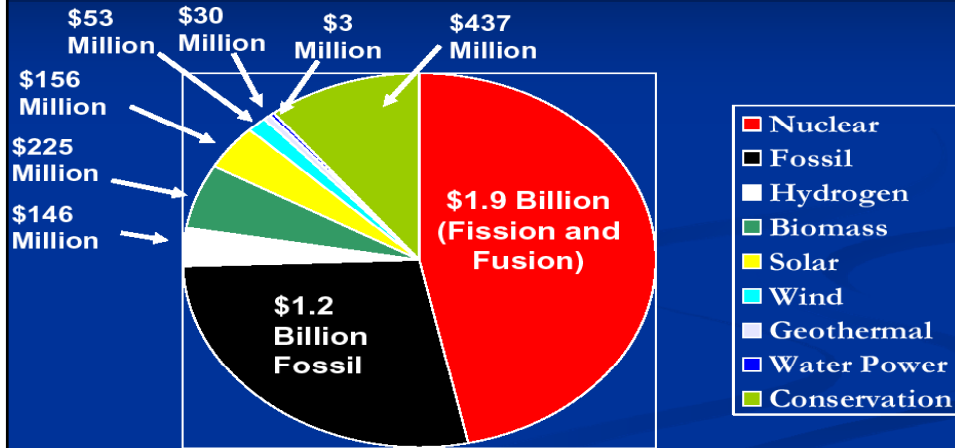


Research & Development

- DOE Hydropower R&D Program terminated for 3 years.
- FY 2008 – Congress approved \$10 million for a single Waterpower R&D program that covers all technologies conventional and new.
- FY 2009 Administration request - \$3 million
- NHA FY 2009 requests seeks full funding of EPRI report R&D initiatives starting in FY 2009 with \$54 million.



DOE FY 2009 Request



Conclusion

- Encouraging the accelerated deployment of renewables, particularly in the short term, has many energy, environmental and economic benefits.
 - Lowers GHG emissions,
 - Lowers the cost of GHG emissions reductions,
 - Leads to energy independence, and
 - Develops growth in renewables sector and emerging industries creating thousands of new green jobs across the country.



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