



Commission authorization is required for non-Federal hydropower projects that:

- are located on navigable waters;
- are located on non-navigable waters over which Congress has Commerce Clause jurisdiction, were constructed after 1935, and affect the interests of interstate or foreign commerce (e.g., are connected to or displace power from the interstate electric grid);
- are located on public lands of the United States; or
- utilize surplus water from a federal dam.









Hydrokinetic Project Overview

Hydrokinetic projects generate electricity from the motion of waves or the unimpounded flow of tides, ocean currents, or inland waterways.

Hydrokinetic Energy Sources and Technologies for Energy Extraction

1) Ocean Current (e.g., Gulf Stream on the OCS)



3) Inland/River Current (e.g., Mississippi and Yukon rivers)



2) Wave Energy (e.g., Oregon and California Coasts, OCS)



4) Tidal Current (e.g., Cook Inlet, AK; Puget Sound, WA)









Pilot Project Licensing Procedures

- A FERC license for a pilot project allows testing of technology and monitoring environmental effects while generating electricity.
- Characteristics of a pilot project:
 - short license term and small footprint (e.g., 5-year term, 5-MW or less)
 - not located in a sensitive area;
 - strict monitoring program to assess environmental effects and assist in information gathering for future commercial build-out project; and
 - removed, with site restored, unless licensee opts to build-out and obtain new license.
- Complete post-filing application processing and license issuance in as few as 6 months.





FERC Pilot Project Licensing Procedures/BOEMRE Limited Lease Process Integration

On a case-by-case basis BOEMRE's Limited Lease Process and FERC's Pilot Project Licensing Procedures could be integrated to accommodate a combined NEPA review for both BOEMRE and the Commission, resulting in expedited authorization of pilot-scale hydrokinetic projects on the OCS.





FERC Commercial Licensing Process and BOEMRE Lease Process Integration

- FERC will not issue a license or exemption to an applicant for an OCS hydrokinetic project until the applicant has first obtained a lease, easement, or right-of-way from BOEMRE for the site.
- We are currently reviewing our guidance and working collaboratively with BOEMRE to try and streamline the process and identify areas where we can combine study processes and the required environmental review for commercial-scale marine hydrokinetic projects on the OCS.

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FERC Licensing – Other Regulatory Requirements

U.S. Fish & Wildlife Service -Endangered Species Act -Migratory Bird Treaty Act

NOAA

-Essential Fish Habitat -Marine Mammal Protection Act -Endangered Species Act

State Review

-Coastal Zone Management Act -Clean Water Act -National Historic Preservation Act

U.S. Coast Guard -Ports and Waterways Safety Act

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- State Agency MOUs
 - Oregon (March 2008)
 - Washington (June 2009)
 - Maine (August 2009)
 - California (May 2010)
 - Hawaii (in development)
- Federal Agency MOUs
 - Dept. of Interior (MMS) (April 2009)
 - US Army Corps of Engineers (March 2011)

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