

# Active West Coast Hydrokinetic Projects

Tuesday, January 29, 2013

Report developed by the Pacific Fishery Management Council

	Project	Date preliminary permit issued	Location and description	Current status	Technology and power output
<b>California</b>					
P-12585	<b>San Francisco Bay Tidal Energy Project (Golden Gate Energy)*</b>	2/4/2010	San Francisco Bay. Footprint not specified.	FERC granted new (repeat) preliminary permit. Conducting studies and consultations. Requested and was granted an extension for filing a draft license application, 6/21/2012. No action since then, so probably defunct.	60 turbines/square mile, 1000 mW
	Last updated:				
	1/29/2013				
<b>Oregon</b>					
P-12749	<b>Coos Bay OPT Wave Park</b>	8/10/2010	Coos Bay, OR. 200 PowerBuoys in rows parallel to the beach, 25-40 fm deep. Currently, 1 mile wide by 5 miles long; eventually smaller. 2.5 miles from shore.	Submitted PAD 3/7/08. New prelim permit granted 8/10/2010. Submitted progress report 8/2012. Meetings with various agencies; focusing on supporting Oregon's Territorial Sea Plan. Not much activity since summer 2012.	200-400 buoys, 100 mW; annual generation of 276,000 megawatt-hours
	Last updated:	PAD submitted			
	1/29/2013				

\* = FERC-related activity since last report. FERC = Federal Energy Regulatory Commission. MMS = Minerals Management Service. MW = megawatts. nm = nautical miles. NMFS = National Marine Fisheries Service. NOI = Notice of Intent. OCS = Outer Continental Shelf. PAD = Preliminary Application Document. TLP = Traditional Licensing Process. WEC = wave energy conversion device.

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<b>P-12743</b>	<b>Douglas County Project (Douglas County)*</b>	10/06/2010	Winchester Bay. Project would be powered by wave-driven air currents created by infrastructure built into existing jetty; installed capacity of 3MW. Applying for 50-year license.	Conducting wave tank modeling of different sites. Second preliminary permit granted 10/06/10. Drafting engineering specifications, conducting engineering studies. In May 2012, FERC threatened to cancel permit because progress report had not been filed. Submitted progress report in Nov 2012. Conducting feasibility studies.	One jetty-based structure
	<b>Last updated:</b> 1/29/2013	PAD submitted			
<b>Needs MMS lease</b>	<b>Principle Power Offshore Wind Project*</b>		Off Tillamook or Garibaldi, OR. Project will begin with a single WindFloat floating turbine (243 feet); to expand to 15 square miles (20-unit arrays, 1/4-1/2 mile long) capable of generating 150 to 200 mW.	In 2008, Principle Power signed MOUs with Tillamook Intergovernmental Development Entity (TIDE) and Tillamook PUD. 9/2010 - PP and TIDE held contract negotiations and public workshop. 4/2011- TIDE & PP filed federal feasibility grant application. 5/11 - TIDE held public meeting. Looking at Coos Bay for construction of turbines. Principle Power successfully launched floating wind turbine in Portugal in Feb 2012. Unclear who would have jurisdiction here.  Needs MMS lease/license.	30 wind turbines, 5 MW each (150 MW)
	<b>Last updated:</b> 8/30/2012				

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P-12713	Reedsport OPT Wave Park*		Reedsport, 2.5 miles off coast. 204-225' depth. Footprint: 0.25 sq. miles. Sandy bottom. Each PowerBuoy would have diameter of 36 sq feet and extend 30 feet above the water.	PFMC has commented twice on this project. Environmental assessment released Dec. 2010. Formal consultations with NFMS, USFWS. USFWS submitted BiOp 5/5/2011. NMFS submitted biop in June 2012. License issued 8/13/2012. January 2013: Convening coordinating committee and four implementation committees (not meeting FERC deadlines however). See Phase III entry as well.	10 OPT PowerBuoys (50 mw), in 3-4 rows.
	Last updated: 1/29/2013	PAD submitted		Project continues to move forward. In Phase I, a single PowerBuoy will be installed. After at least 1 season of testing, 10 PowerBuoys will be arrayed in 3 rows. License details available at <a href="http://tinyurl.com/9bs69I5">http://tinyurl.com/9bs69I5</a>	
P-13666	Reedsport OPT Wave Park, Phase III*	3/15/2011	Off Douglas County, 2.5 miles off Reedsport, in water 25-35 fathoms deep. Footprint 1x5 miles.	Applied for preliminary permit 2/1/2010. Permit issued 3/15/2011. Filed progress report 9/2012. Focusing on the Oregon Territorial Sea plan, permitting, monitoring. Plan to put a single buoy in place in spring 2013.	100 PowerBuoys (50 MW) adjacent to Phase I project (P-12713). 2.5 mile long subsea transmission cable.
	Last updated: 1/29/2012				

## Washington

	<b>Project</b>	<b>Date preliminary permit issued</b>	<b>Location and description</b>	<b>Current status</b>	<b>Technology and power output</b>
<b>P-12690</b>	<b>Admiralty Inlet (Snohomish PUD)*</b>	7/8/2010	Admiralty Inlet, Puget Sound. Bay/estuary habitat; 60-100 m deep; bottom is scoured pebbles and sand; much shipping & commercial traffic.	Continues to move forward. Submitted PAD 1/31/08. Second prelim permit issued July 2010. Much activity in late 2012-early 2013. Environmental assessment issued 1/15/12. Asked NMFS for biological opinion 1/22/13.	Two 10-meter, 500 kW open-center turbines (OpenHydro Group), mounted on submerged foundations (underwater). Less than 5 MW.
	Last updated: 1/29/2013	PAD submitted		Continuing studies and planning for deployment.	
<b>P-12687</b>	<b>Deception Pass (Snohomish PUD)*</b>	8/24/2010	Deception Pass, Puget Sound. Bay/estuary habitat; 30 m deep; rocky seafloor; mainly recreational use.	New preliminary permit issued Aug 2010 (old one expired). Plans to move forward with Admiralty Inlet project first. Progress report submitted 12/31/12.	Four 66-foot turbines, 1.6 megawatts each, 25 feet above sea floor. 6.4 MW; 20.7 gigawatts annually
	Last updated: 1/29/2013	PAD submitted		Snohomish PUD intends to pursue a pilot license for a project in Admiralty Inlet first, and then apply that learning to a project in Deception Pass.	

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