OREGON WAVE ENERGY TRUST UTILITY MARKET INITIATIVE

TASK 2: RESOURCE POTENTIAL



www.oregonwave.org



The Utility Market Initiative was prepared by *Pacific Energy Ventures* on behalf of the Oregon Wave Energy Trust.

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About Oregon Wave Energy Trust

The Oregon Wave Energy Trust – (OWET) - with members from fishing and environmental groups, industry and government - is a nonprofit public-private partnership funded by the Oregon Innovation Council in 2007. Its mission is to serve as a connector for all stakeholders involved in wave energy project development - from research and development to early stage community engagement and final deployment and energy generation - positioning Oregon as the North America leader in this nascent industry and delivering its full economic and environmental potential for the state. OWET's goal is to have ocean wave energy producing 2 megawatts of power - enough to power about 800 homes - by 2010 and 500 megawatts of power by 2025.





TASK 2.0 RESOURCE POTENTIAL

Objective

Provide concise, comprehensive information to the marine energy industry in a format that will allow them to better understand the viability of wave energy in Oregon's power supply portfolio.

Background

In 2006, the Oregon Wave Energy Trust asserted that there is 500 MW of wave energy development potential over the next 15 years of the coast of Oregon. This assertion was based on early technology and wave resource information developed by EPRI. Since that time, there have been technology developments that could be updated. Further, with strong Oregon's interest in wave energy development, it is appropriate to invest in more detailed evaluation of the readiness of the technology, the potential and characteristics of the resource, and the existing infrastructure.

Approach

Provide up-to-date information about the capability of wave energy in formats that are easy to understand, yet specific enough for utility planners to assess the impacts to the regional system.

Sub-Tasks	Summary of Deliverables
2.1 Technology Assessment	2.1.1 EPRI Wave Energy Technology Assessment
	2.1.2 Garrad Hassan Wave Energy Technology Review
	2.1.3 Oregon Wave Project Database
2.2 Wave Resource	2.2 Wave Resource Assessment
Assessment	EPRI review analysis to be completed in June 2010
2.3 Wave Energy Capacity Profile	2.3 Forecast of Potential Wave Energy in Oregon
2.4 Resource and Interconnection Maps	2.4 Oregon Coastal Transmission Map and Substations