



Puget Sound Tidal Energy

Snohomish PUD Demonstration Project

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The logo for the Puget Sound Harbor Safety Committee. It features the text "Puget Sound Harbor Safety Committee" in white on a dark blue background with a wavy, water-like texture.

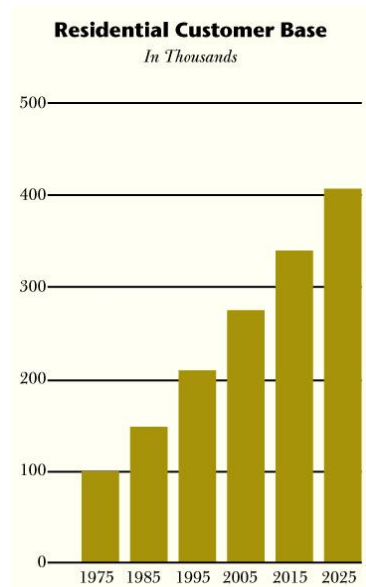
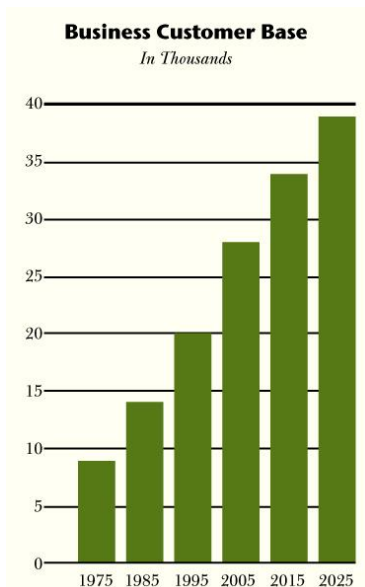
Puget Sound Harbor Safety Committee

Energy Challenge



- Service Region Growth

- Snohomish County is growing rapidly - ~10,000 new connections/year
- Load growth of 15 to 20 aMW/year

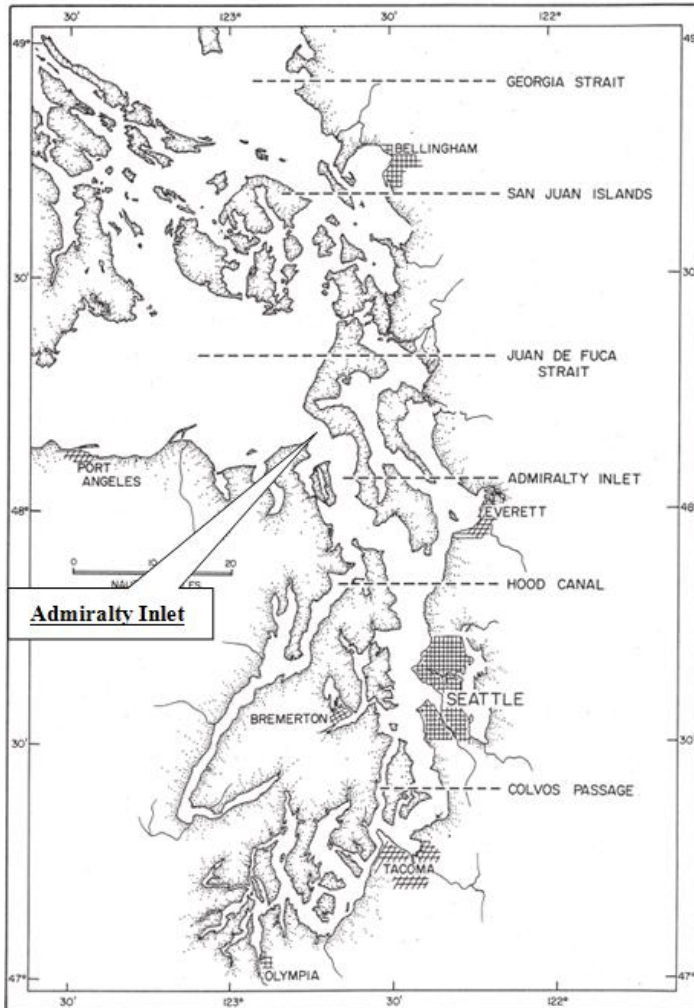


- Renewable Portfolio Standard

- Requires the addition of ~140 aMW of new renewable resources by 2020.



Tidal Sites



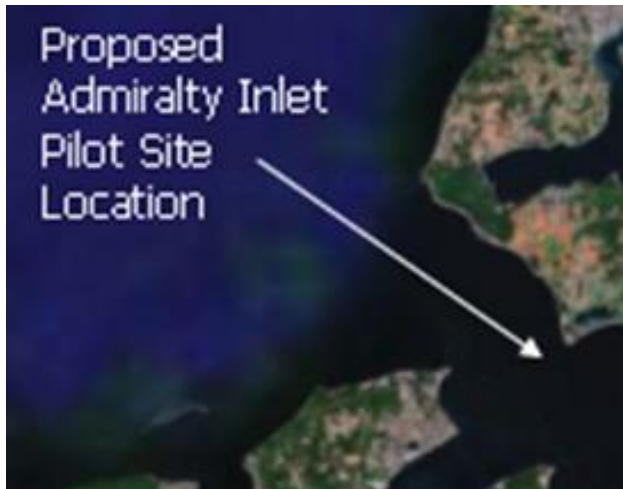
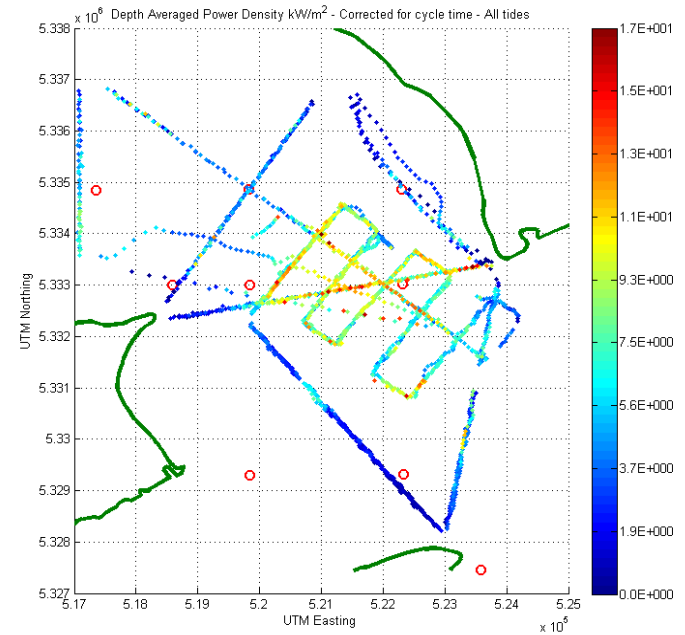
The District currently has preliminary permits from FERC to study four sites in the Puget Sound:

- Spieden Channel
- Guemes Channel
- Deception Pass
- Admiralty Inlet

Approach:

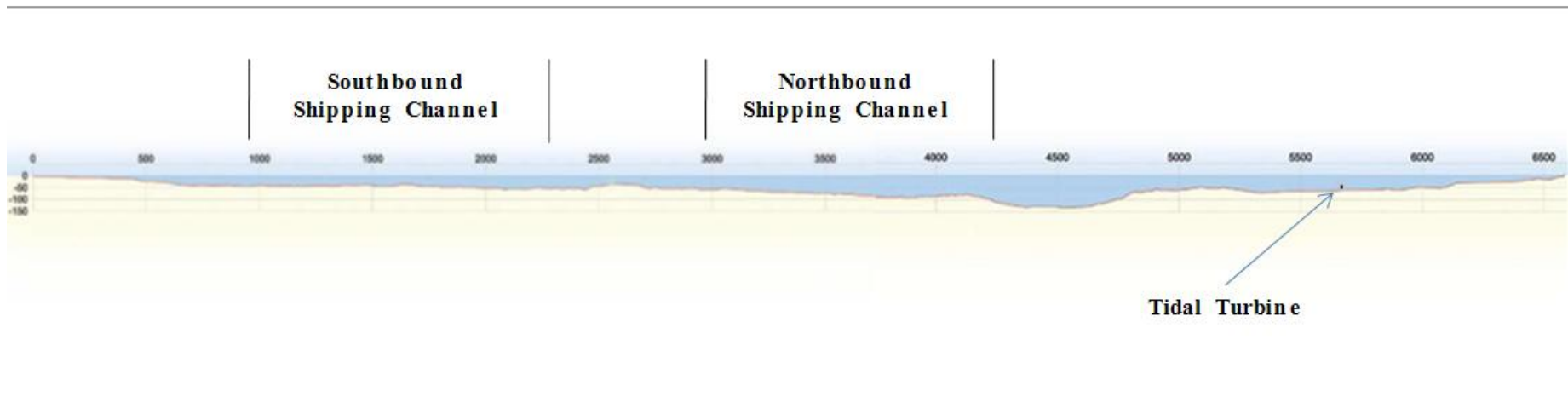
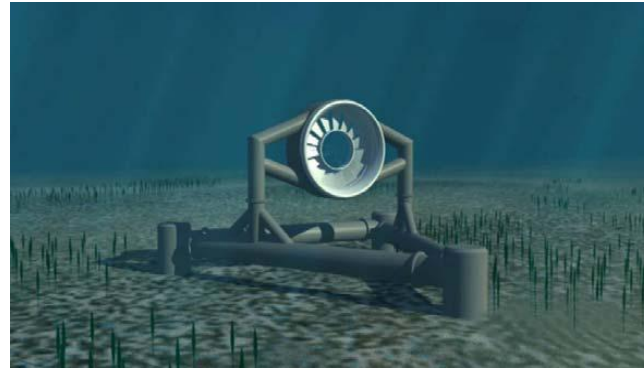
- Develop and evaluate a small scale pilot plant at one site, **Admiralty Inlet**, until technical and environmental performance can be better understood – objective is to generate scientific data to better evaluate risks and benefits
- This data will facilitate the evaluation of remaining sites as well as feasibility of development in Admiralty.

Admiralty Inlet Siting

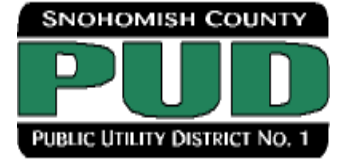


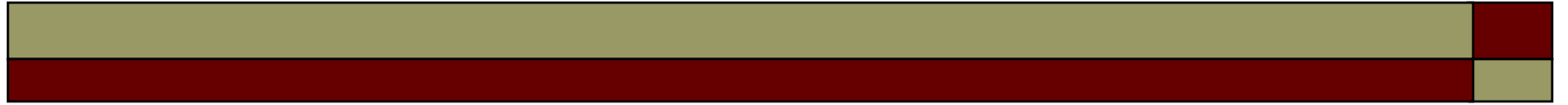
- Excellent tidal current regime
- Large commercial waterway
- Suitable depth/bathymetry
- Adequate grid interconnection options
- Large site relative to device size
- Learning directly applicable to phased build out
- Pilot plant will be sited outside the shipping channel and ferry route

Admiralty Inlet Tidal Device Scale



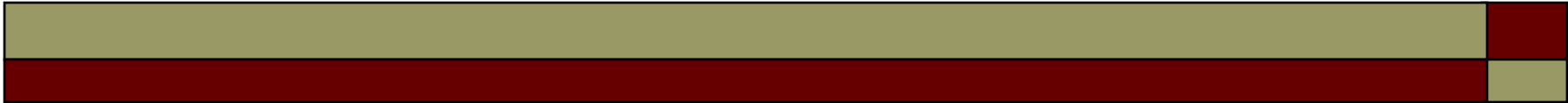
Bay of Fundy Deployment





openhidro

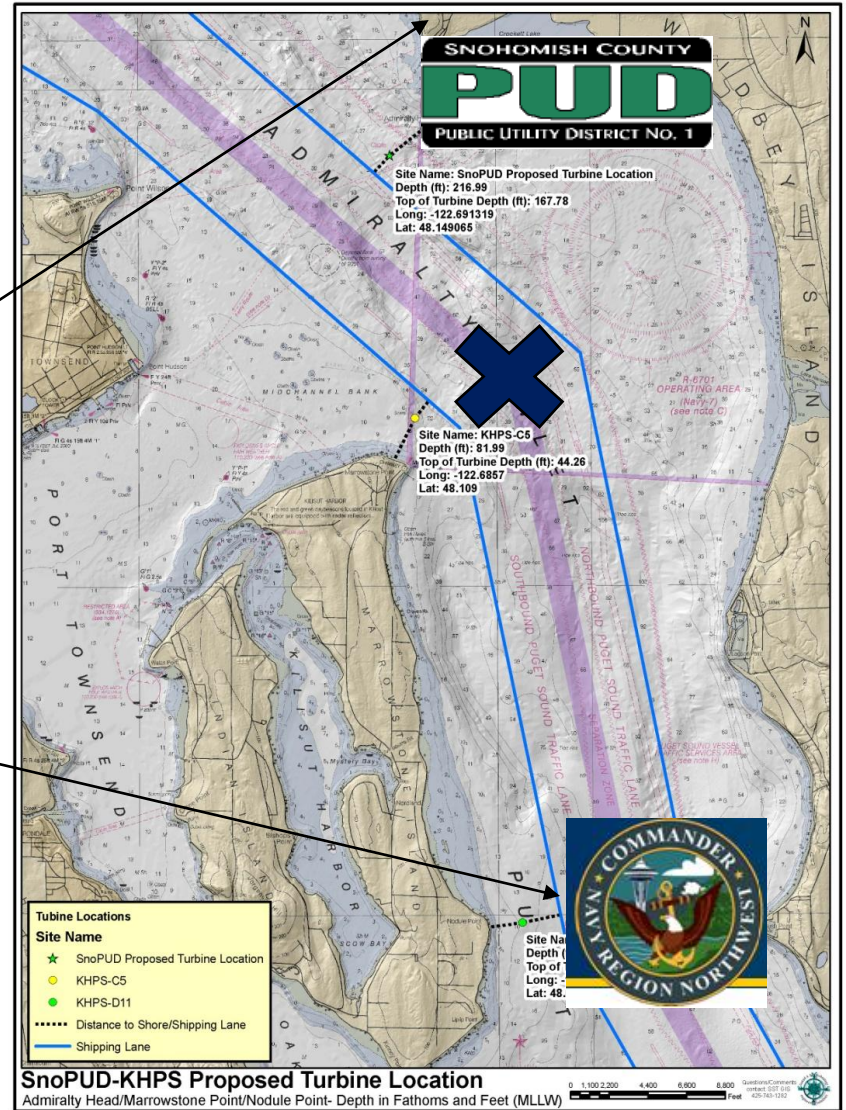
tidal technology

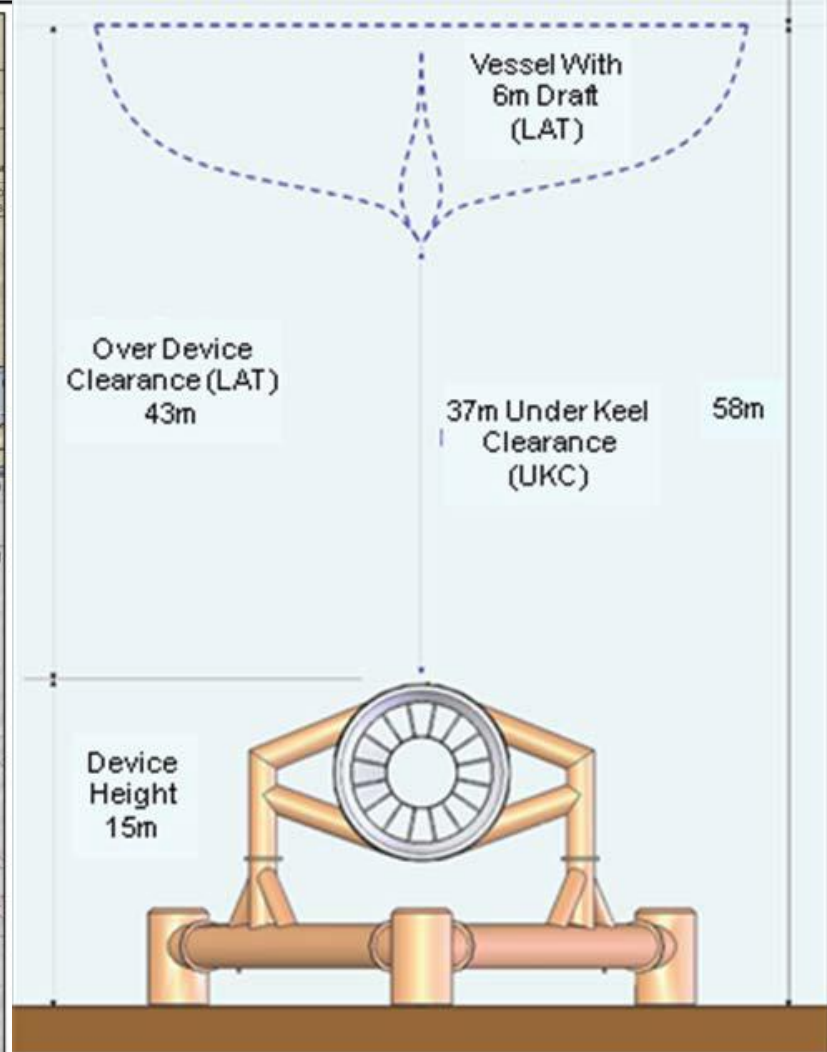
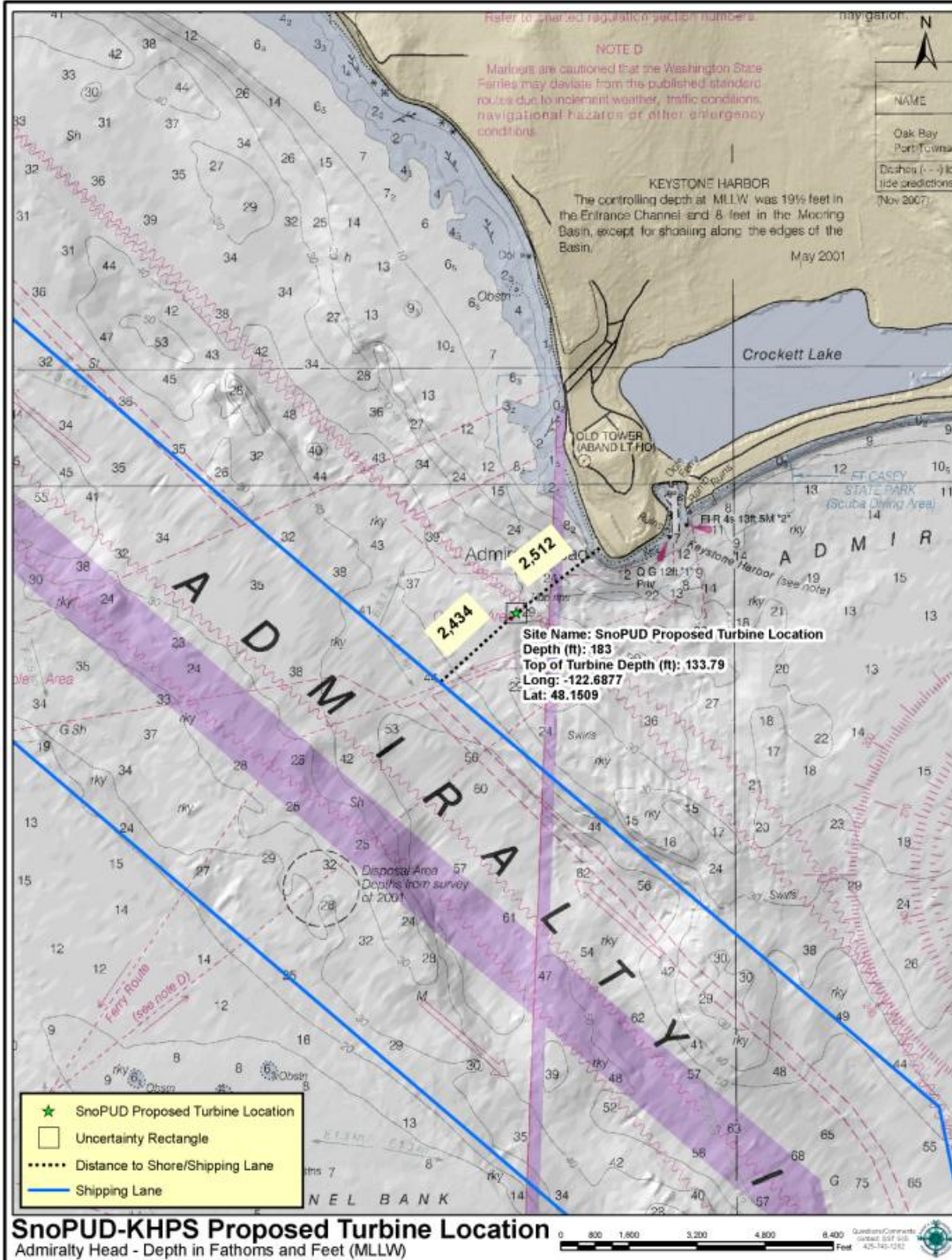


Snohomish/Navy General Project Site Areas

Snohomish Project Site

Navy Project Site





- Planning for installation in 2012
- 3-5 year pilot project (10 yr license)
- Remove or re-license project at conclusion of pilot period



U.S. DEPARTMENT OF
ENERGY

SNOHOMISH COUNTY
PUD
PUBLIC UTILITY DISTRICT No. 1



Pacific Northwest
NATIONAL LABORATORY

HDR



Marine Sciences Laboratory



NORTHWEST NATIONAL MARINE RENEWABLE ENERGY CENTER (NNMREC) - CENTER HOME

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Questions?



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