

Bradley Ling

September 19th, 2018

OREC 2018

Azura Testing and Development Status

Ocean Testing

Oregon Test

- Ocean Sentinel
- Summer 2012

WETS Baseline Test

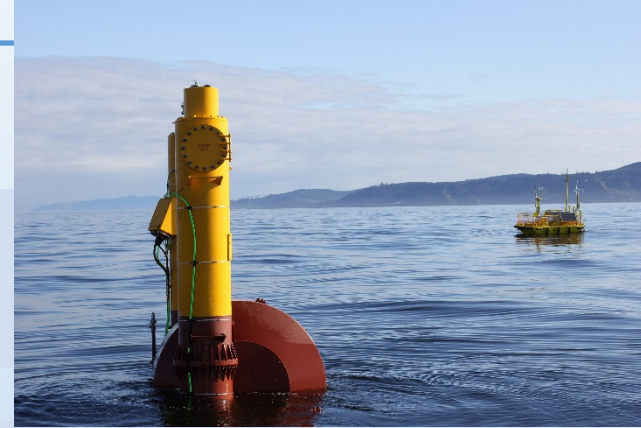
- Grid Connected Test
- June 2015-Dec 2016

WETS Modified Test

- New Float, Heave Plate
- February – August 2018

Commercial Scale Test

- Scheduled to begin 2020



Hawaii Testing



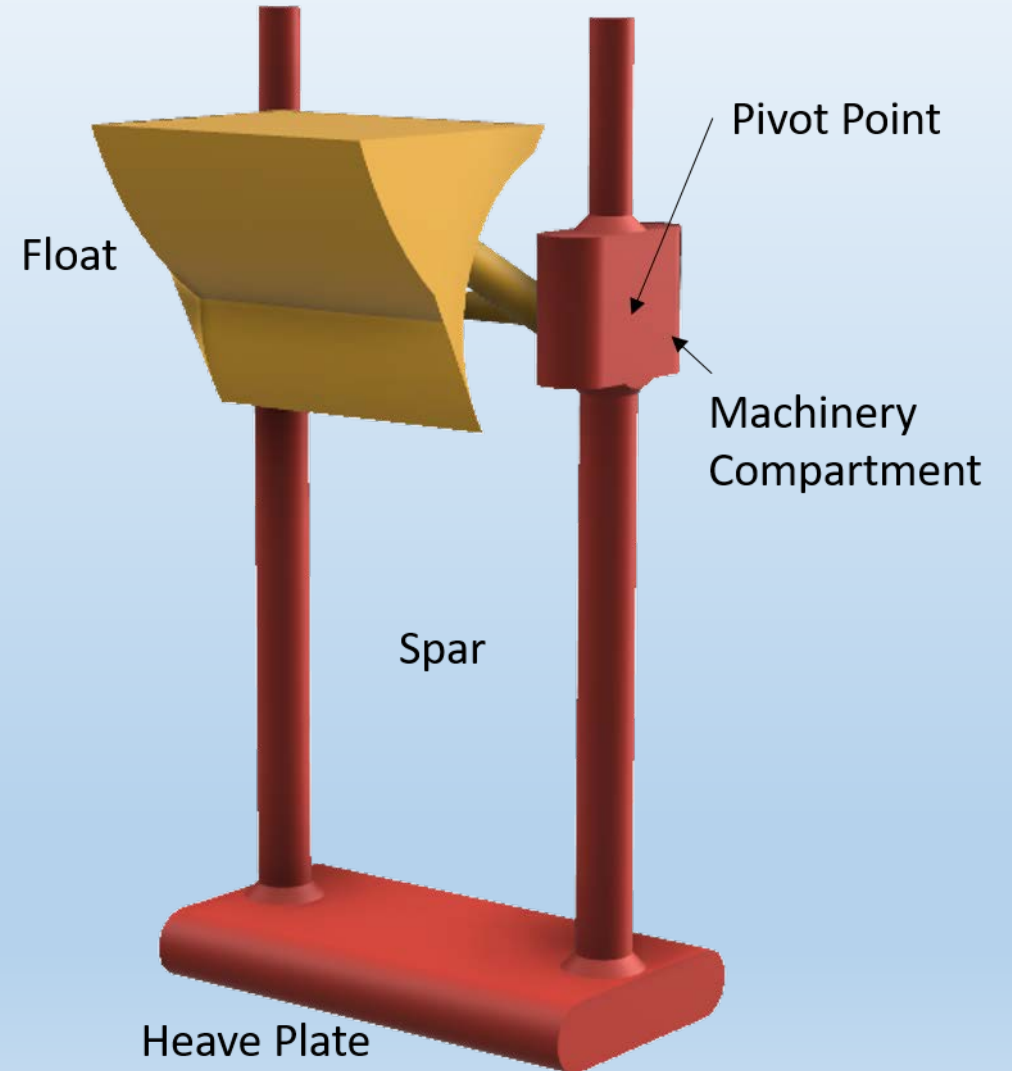
- ❖ First US Grid Connected Wave Energy Test
- ❖ 96% Availability
- ❖ 19 Month Deployment
- ❖ Proven survivability
- ❖ Simulation Model Validation

Modifications Program



Upcoming Commercial Scale Test

- ❖ Improved Hydrodynamic Efficiency
- ❖ 250 kW Machine
- ❖ Hydraulic PTO
- ❖ Preliminary Design Complete
- ❖ Detailed Structural Design Underway
- ❖ 1 year test at WETS
- ❖ Estimated to begin 2020.



Wave Tank Testing @ University of Maine

RTI WEP Model Test

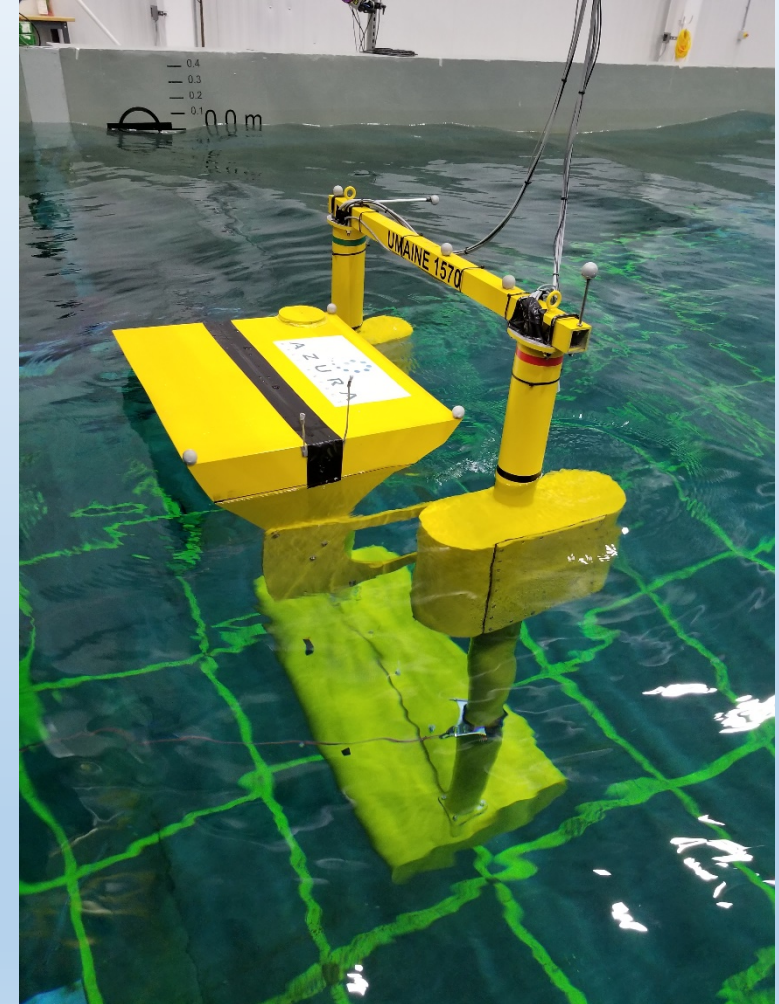
- PTO Modifications
- Broadband Waves
- 1/20th Scale
- April 2017

Commercial Design Validation

- Damping
- Hydraulic PTO
- 1/15th Scale
- December 2017

Advanced Control Testing

- Model Predictive Control
- Hydraulic PTO
- January 2018



Testing Video

