



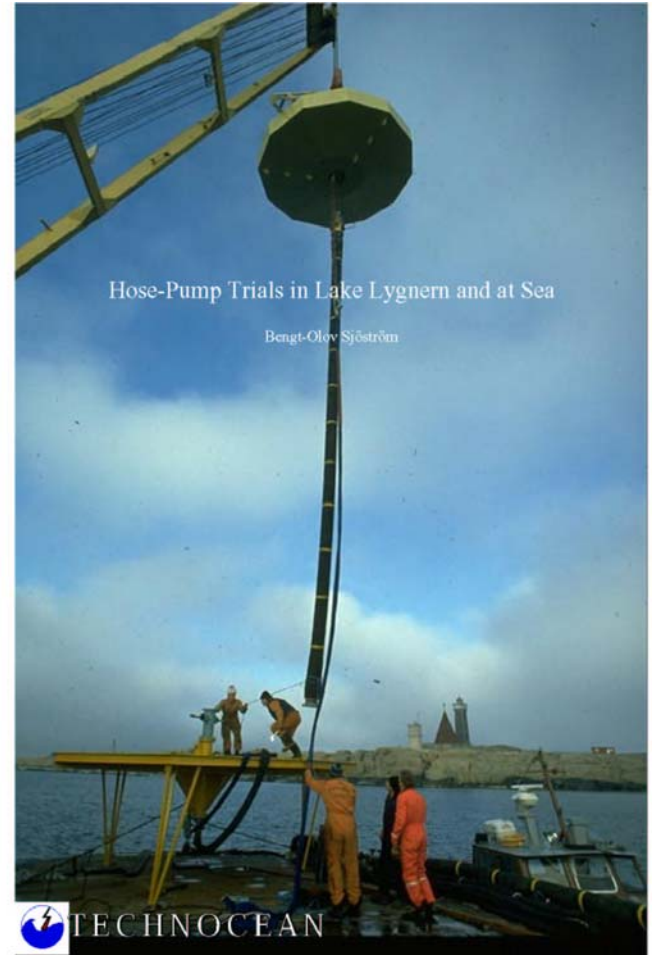
AquaEnergy Group

AquaBuOY – a Development Test Bed

Alla Weinstein, AquaEnergy Group
Kim Nielsen, RAMBØLL



Predecessor Technologies





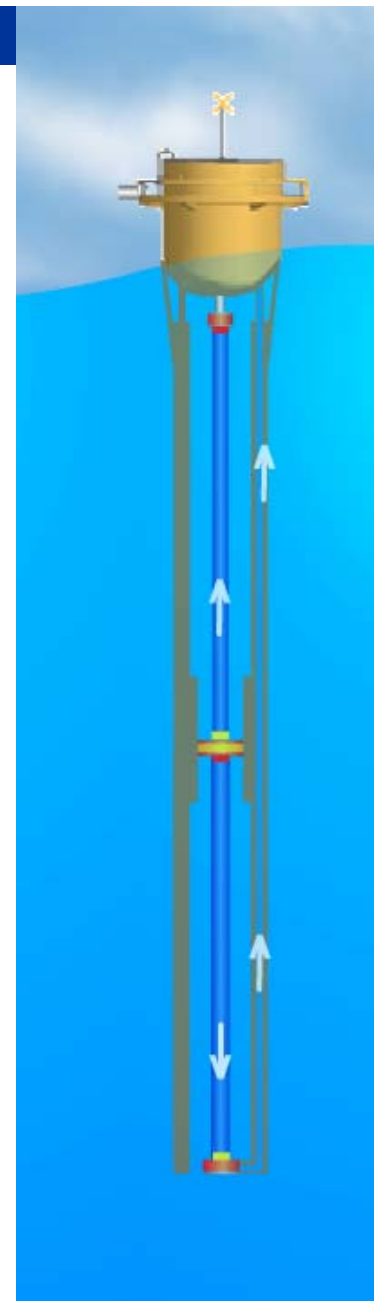
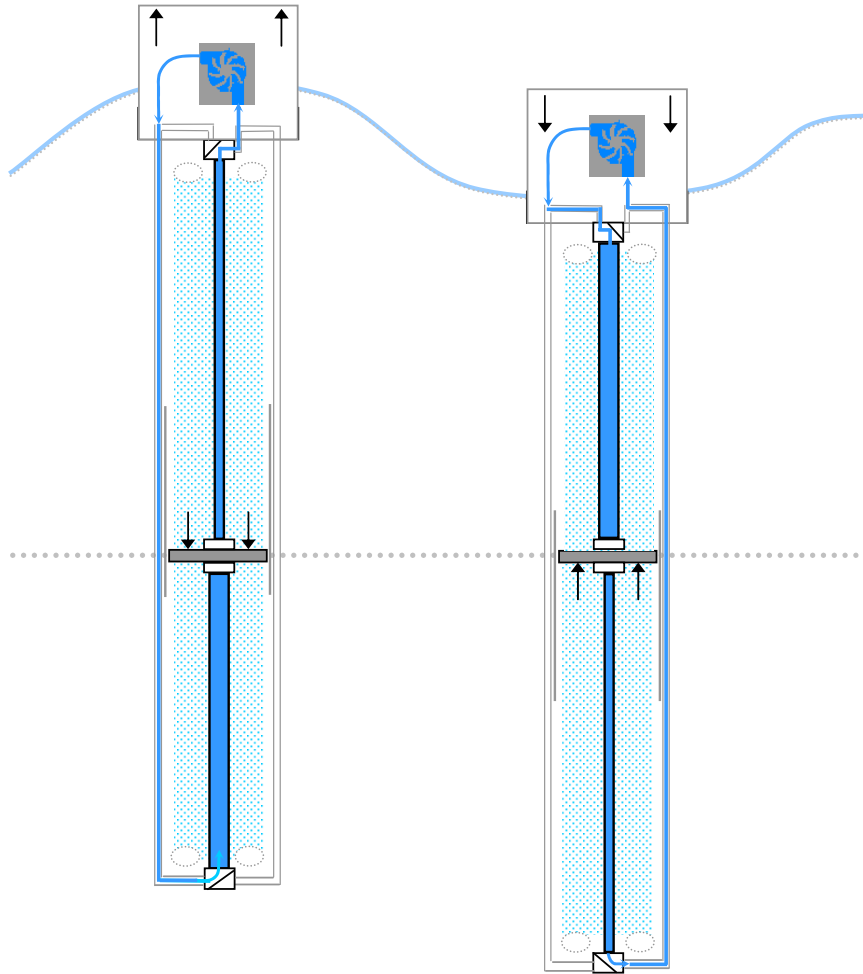
IPS Buoy – Ocean Trials

Simple
Proven
Patented
Clean





AquaBuOY





Proposed Integrated Project

- **OWEC-1 (1996)**
 - Evaluated a number of wave energy technologies
 - Recommended IPS Buoy as “the best device for further development and testing”
- **Baseline**
 - OWEC-1 report recommendations
 - Test data from a demonstration installation



Suggested Tasks

- **Float geometry optimization**
- **Objectives**
 - Light weight structures
 - Corrosion free materials
 - ???
- **Hydraulic components**
- **Objectives**
 - Hose-pump materials
 - ???
 - ???



Suggested Tasks

- **Control system**
- **Objectives**
 - Demonstrate active tuning
 - Increase system efficiency
 - ???
- **Mooring**
- **Objectives**
 - Reduce foot-print
 - Materials
 - Deep ocean
- **Turbine/generator**
- **Objectives**
 - Assess off-the-shelf options
 - Develop efficient assembly
 - ???



Consortium Members

- **AquaEnergy Group**
- **RAMBØLL**
- **DUNLOP**
- **INETI**
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