

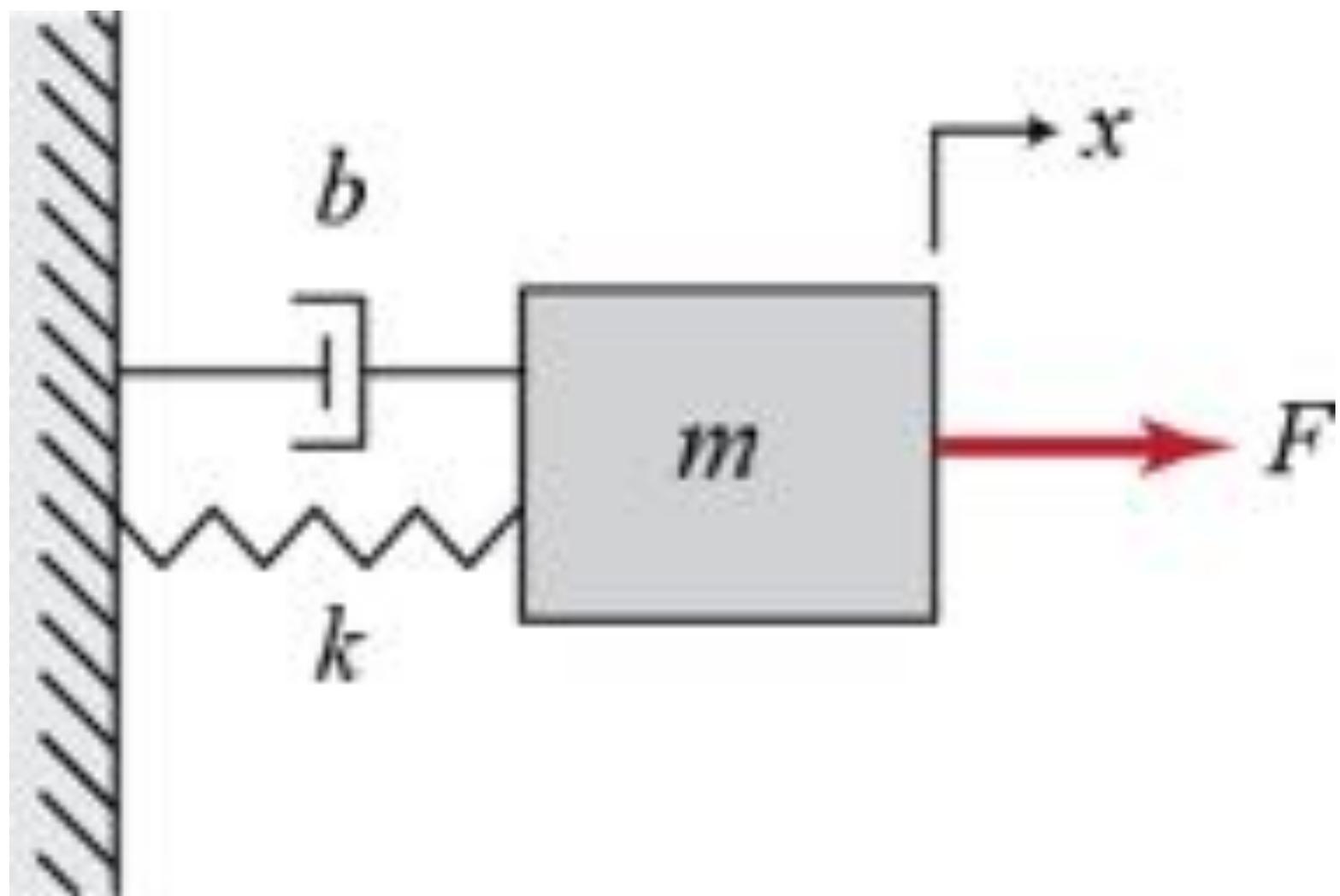
Dinâmica de Sistemas Navais e Oceânicos

PNV3314 Dinâmica de Sistemas

Aula 1

A disciplina

- Material no Moodle
- Participação é fundamental
 - Abram as câmeras
- Assiduidade
 - Lista de presença
- Pontualidade
- Concentrem-se na disciplina

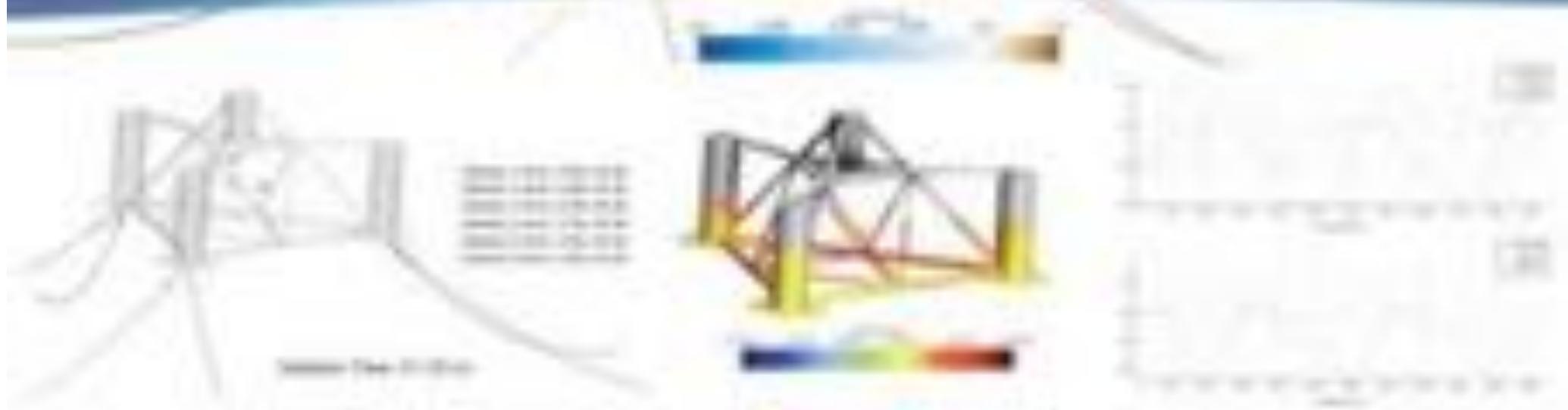


- Graus de liberdade
- Modelagem
- Equação do movimento: equações diferenciais
- Excitação (entrada) e Resposta (saída)

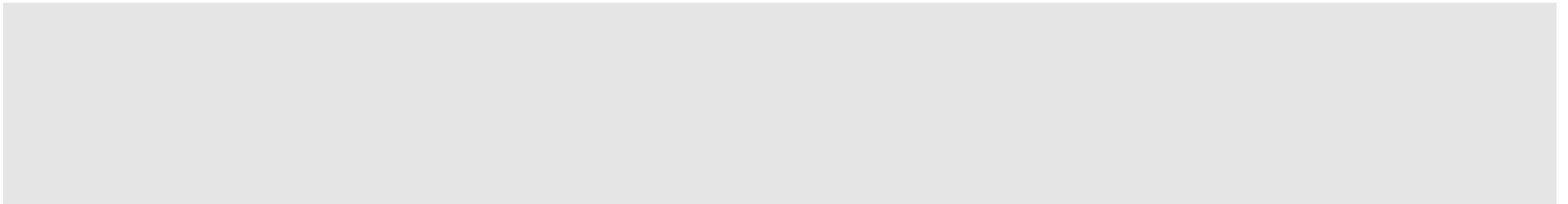




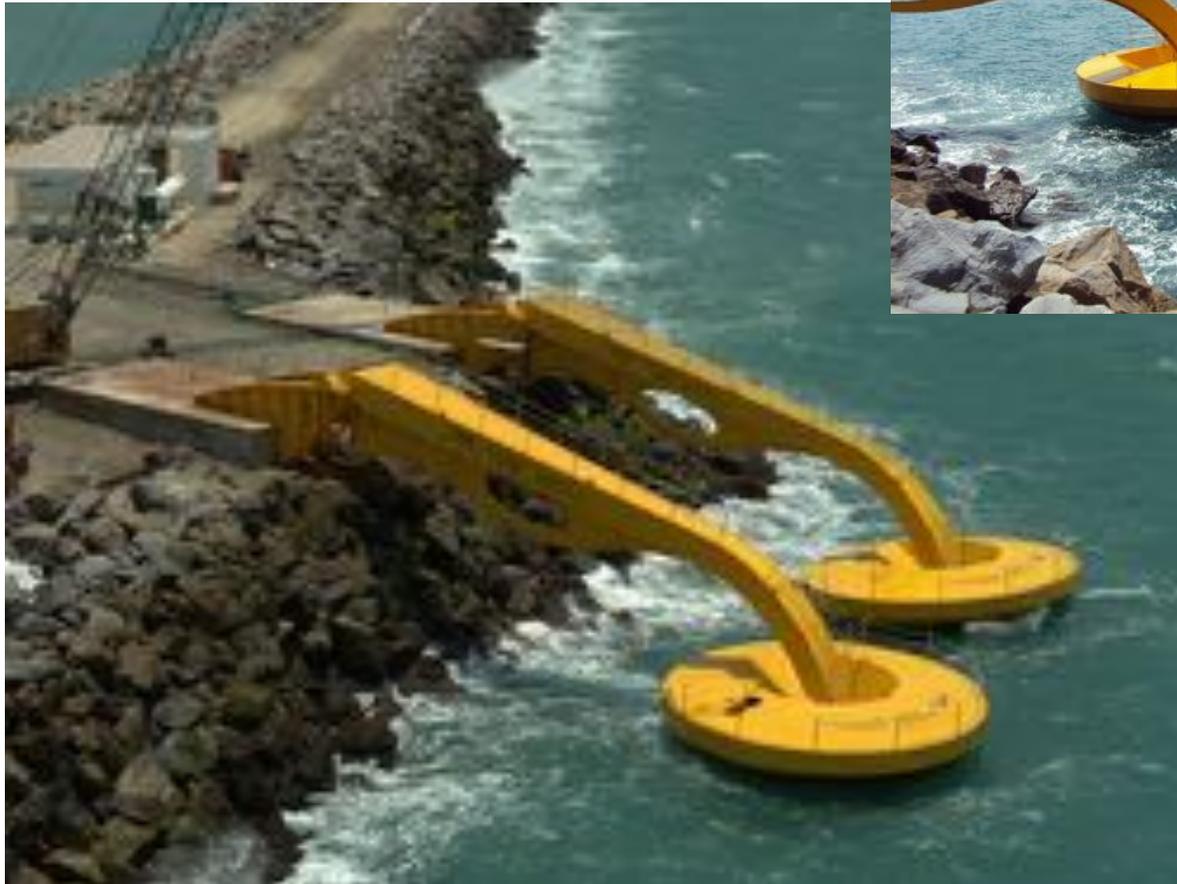




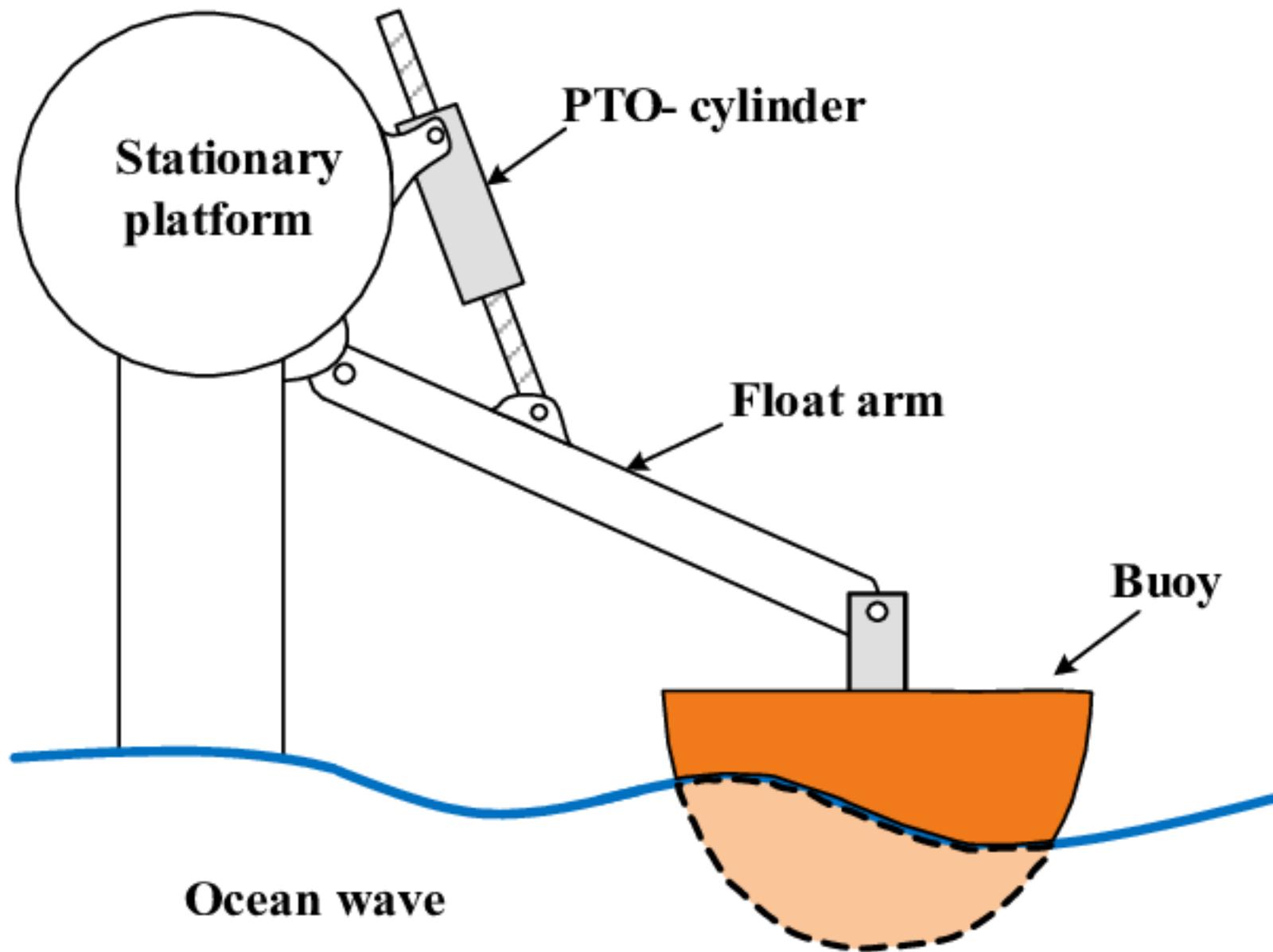
Energia Renovável do Oceano



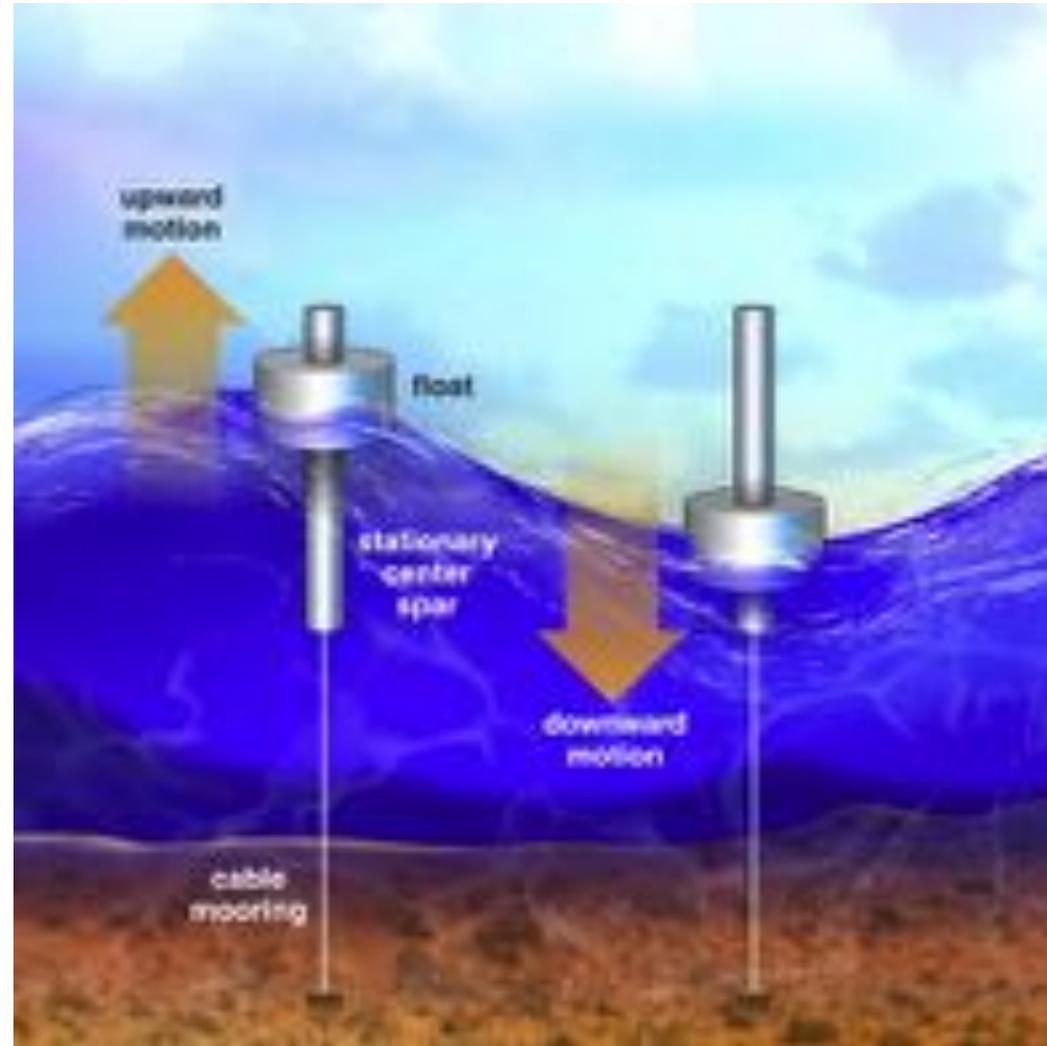
Coastal support



COPPE, UFRJ
Porto de Pecém, CE
Brazil

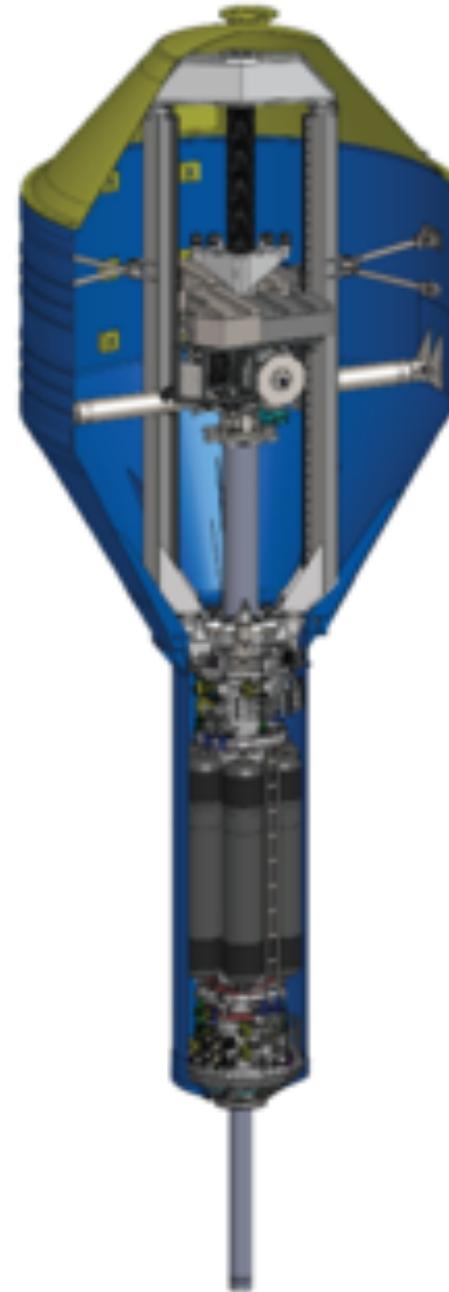
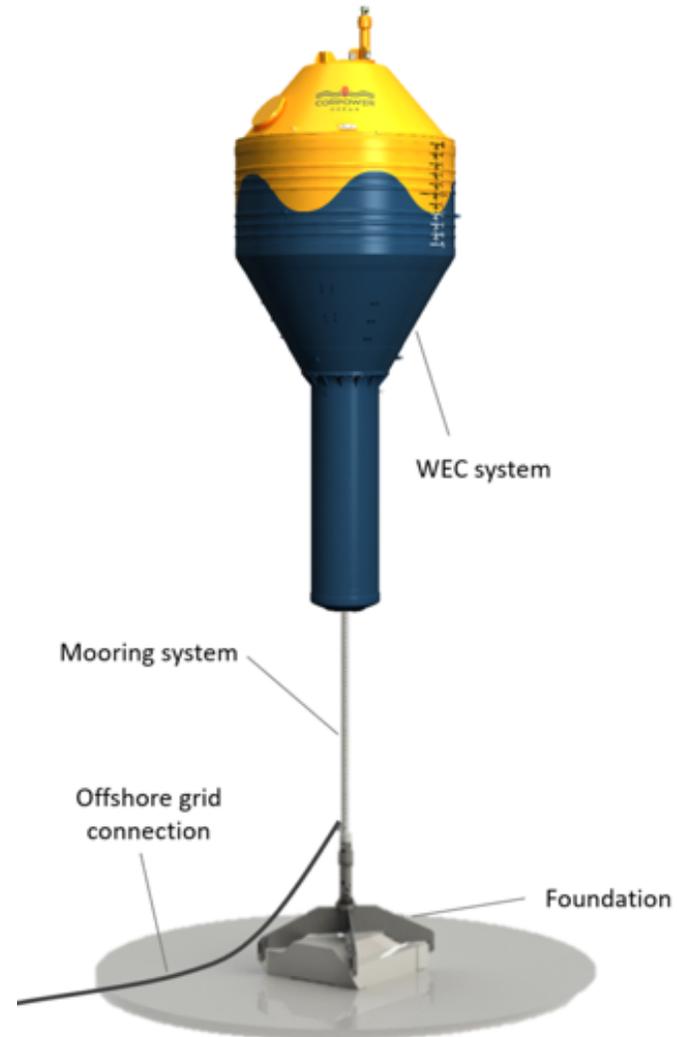


WEC: Point Absorbers



“Corpower”

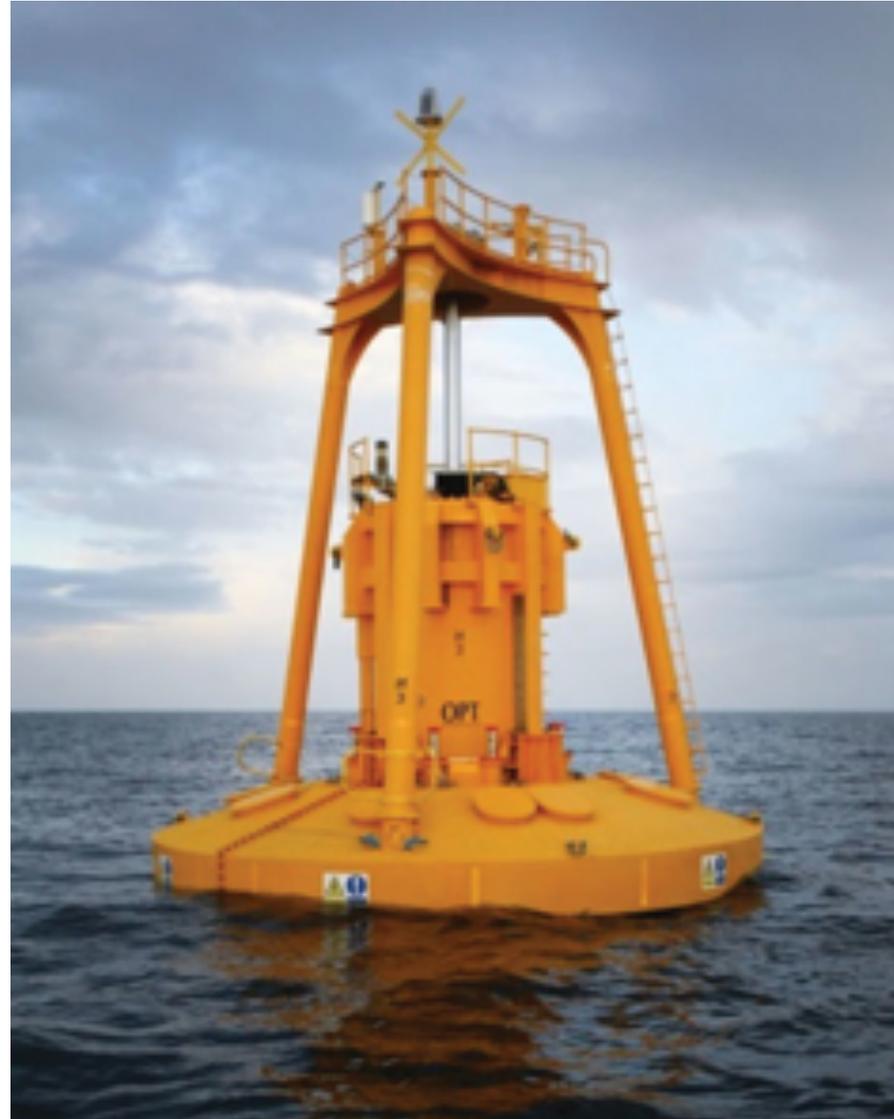
www.corpowerocean.com

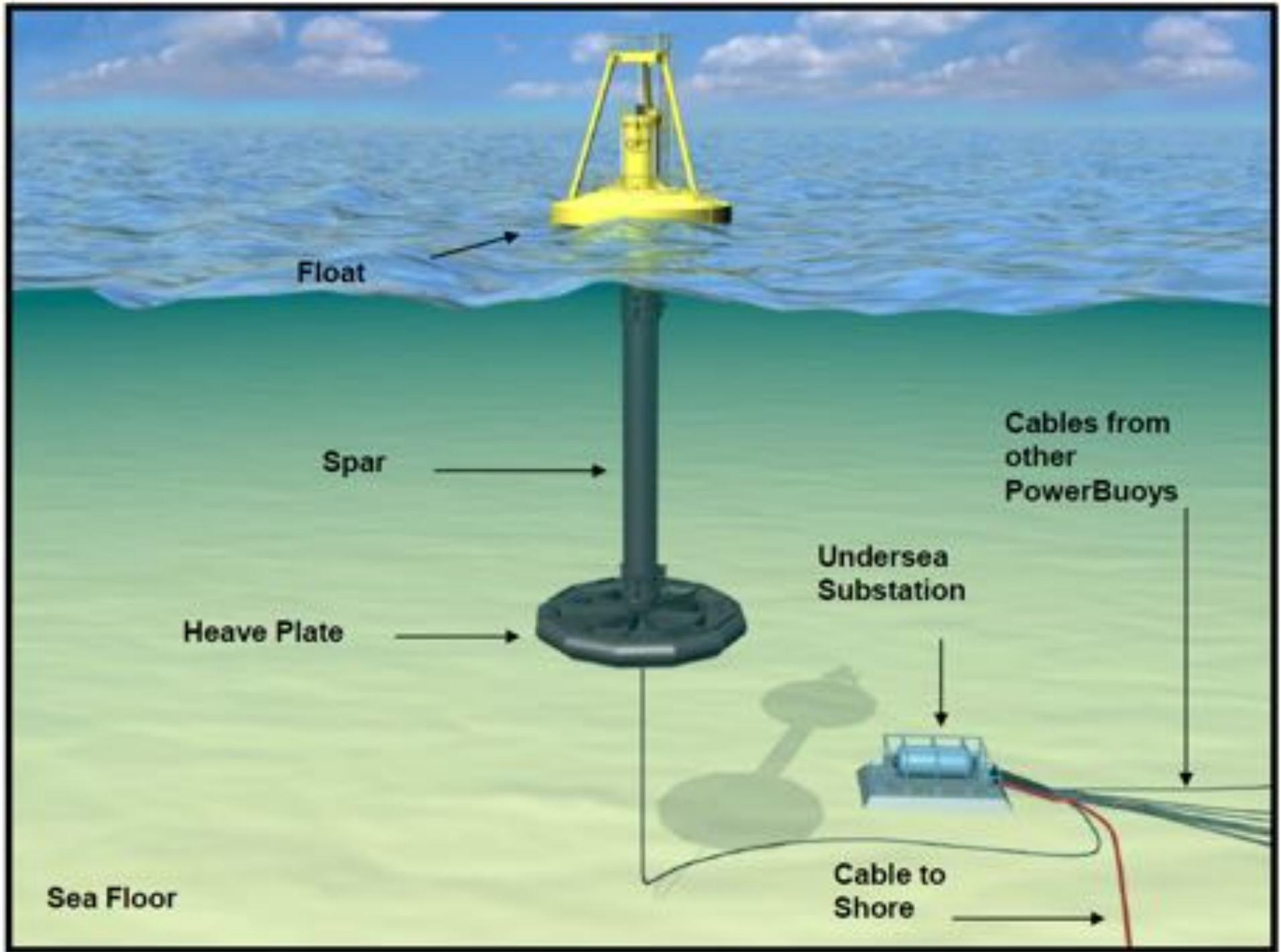


C3 WEC IN ORKNEY



Ocean Power Technologies “Power Buoy”





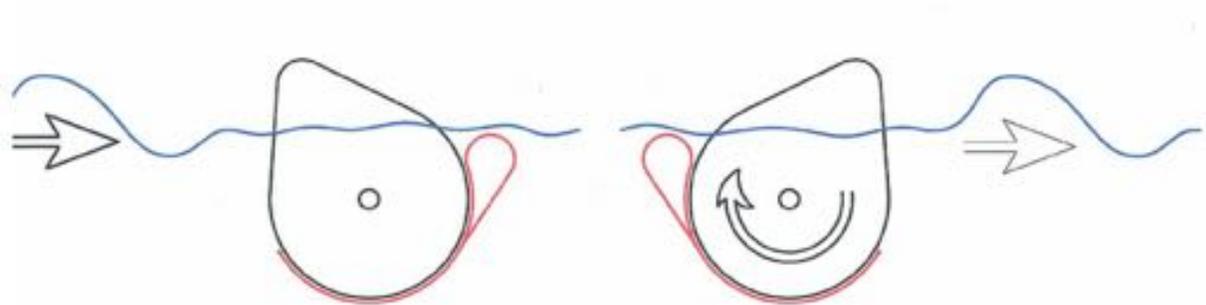
Ocean Power Technologies “Power Buoy”



The Duck



Prof. S. Salter,
Univ. of Edinburgh, UK

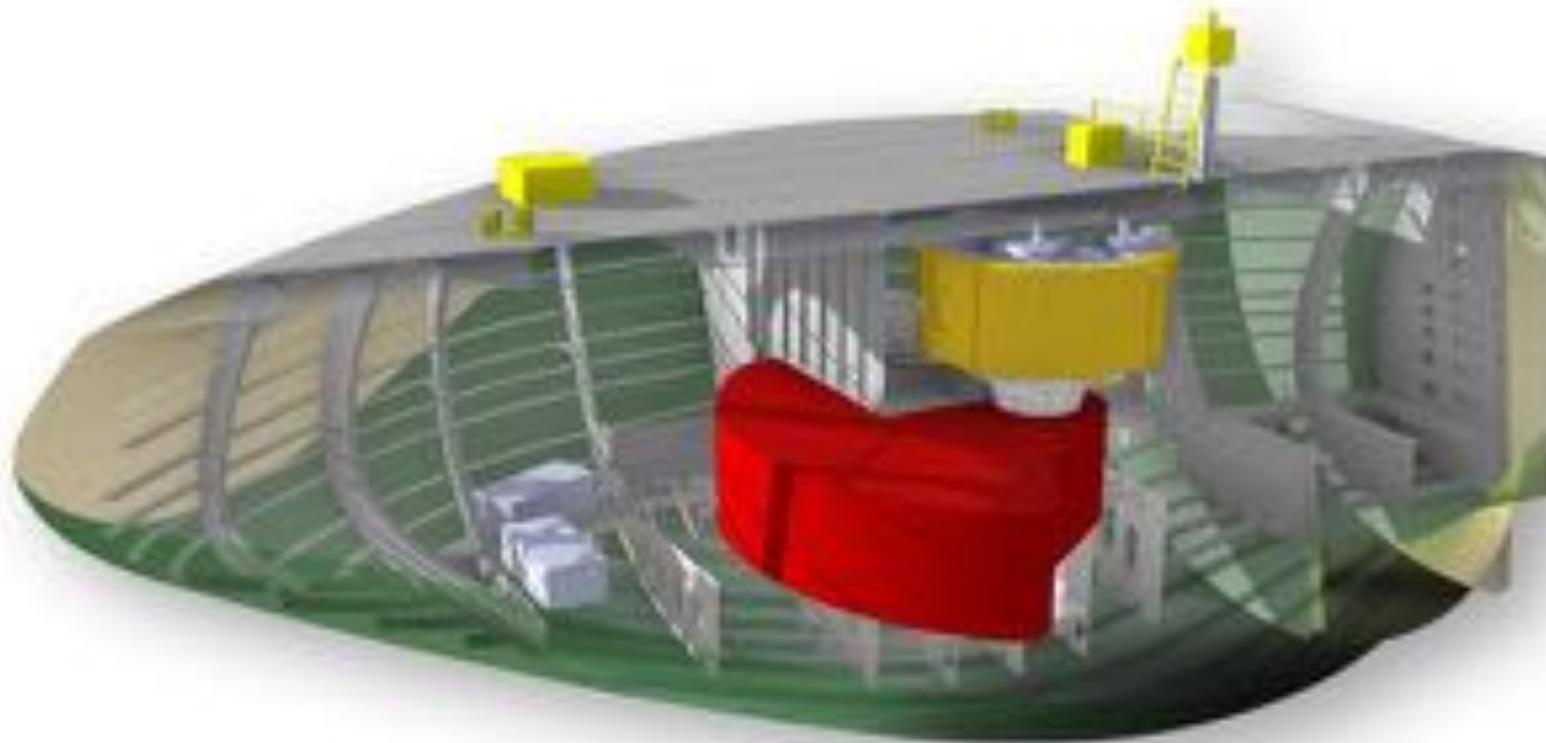




Wello “Penguin”



Wello “Penguin”



Wello “Penguin”



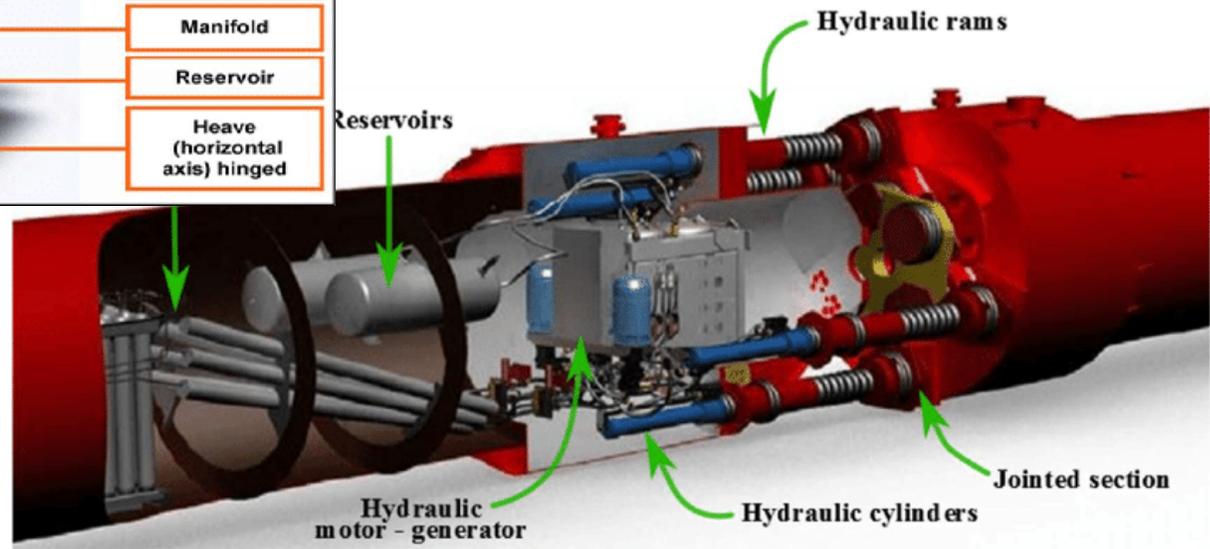
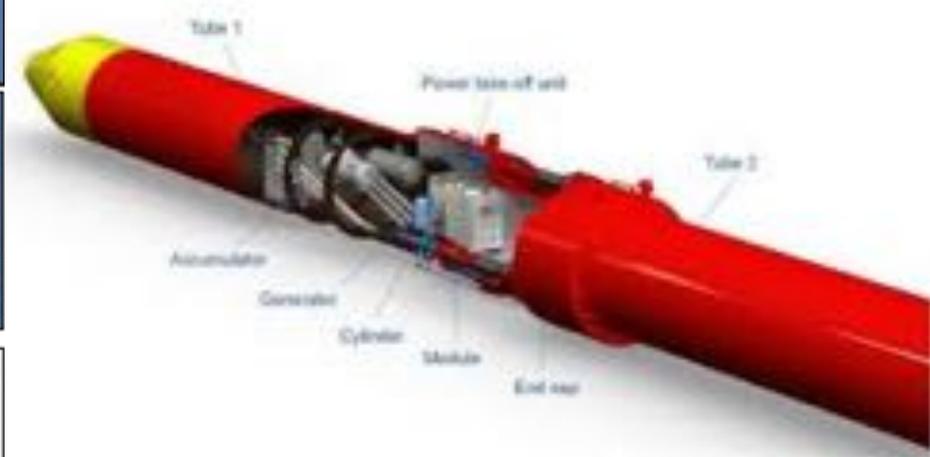
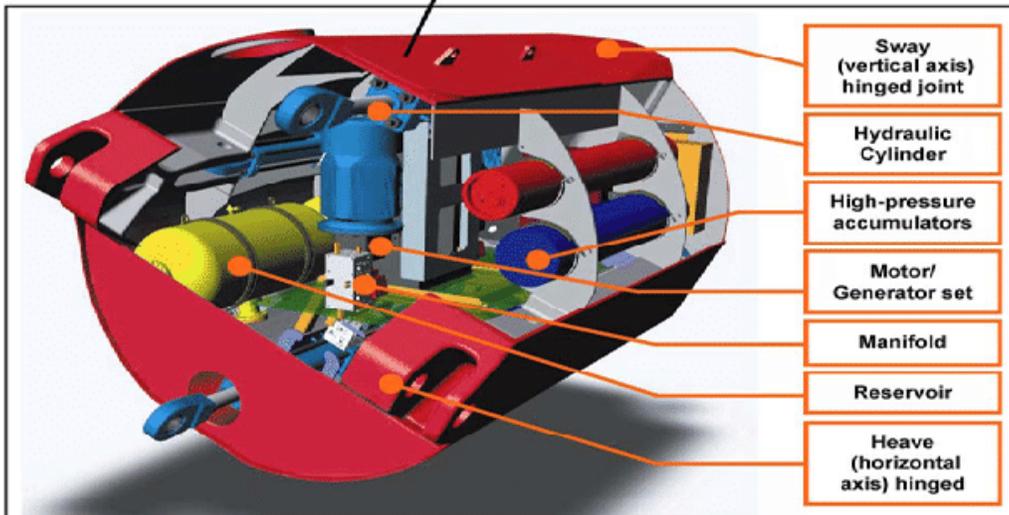
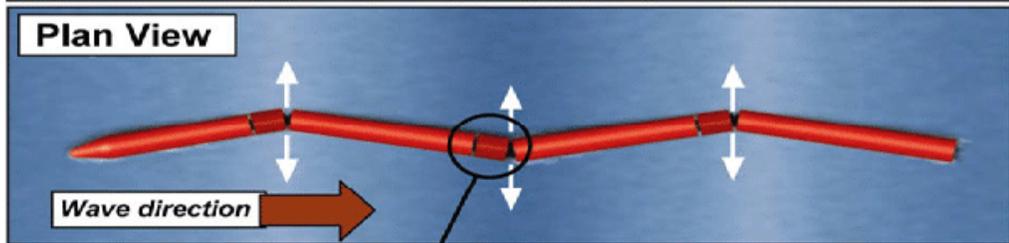
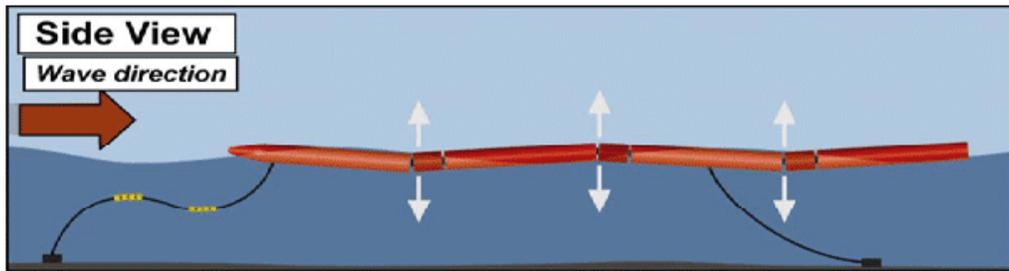
Moorings are designed to be environmentally neutral.

Pelamis



www.pelamiswave.com





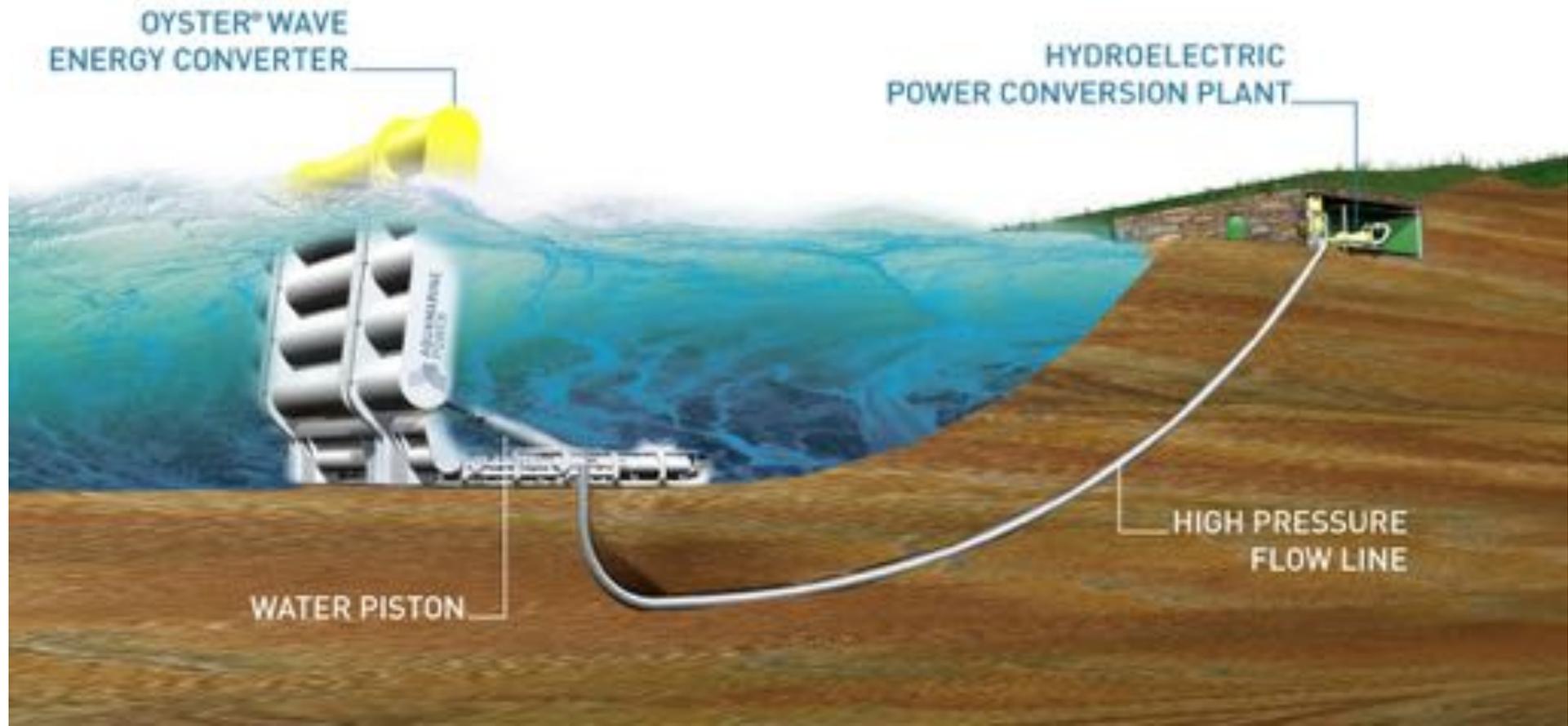
The Oyster

www.aquamarinepower.com



The Oyster

- Near-shore ocean waves
- Water depth: 10 to 12 metres (2m above water line)
- Pumps water to a turbine: 315 kW electrical generator



The Oyster

