OCG-Data

OCERGY
Sustainable Offshore Solutions

A small, low cost, emission-free, 100% renewable moored buoy designed for worldwide environments which supports all instrumentation necessary for full site assessment

Overview

INDUSTRY CHALLENGES

Business need

- Offshore project developers install multiple buoys, for each discipline
- Data inaccuracy due to buoy motions
- Limited number of instruments due to power consumption offshore
- O&M: boarding buoys impractical
- Multiple permits, contracts required

Complexities

- Increased environmental requirements
- Better engineering data can reduce foundation and turbine costs
- Difficult stakeholders' engagements

STRATEGY

Design basis

- Develop a zero-emission buoy with excellent motion characteristics
- 100% renewable powered
  - Wind Wave and solar energy
  - Battery storage for intermittence
- Operate high power equipment including multiple radars
  - ~1.5 KW power need

Key Features

- Slender columns buoy
- Single line mooring
- Flexibility
  - Transportable by container
  - Install with small tugs

MULTIDISCIPLINARY DATA

Financial

- Floating lidar

Environmental

- Radar
  - Birds & Bats
- Acoustics
  - Marine Mammals & bats

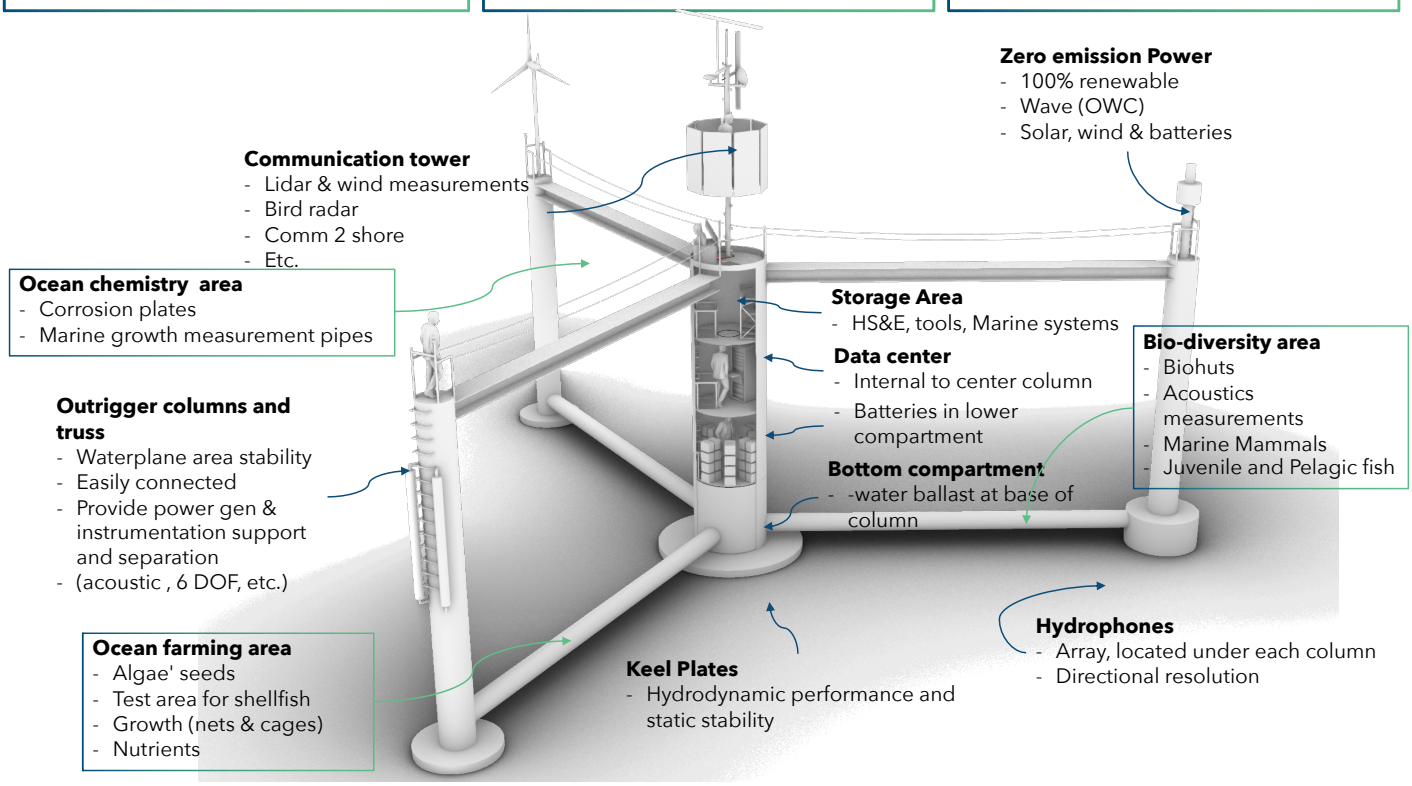
Engineering

- Metocean
  - Wind, wave, current
  - Turbulence (lidar)
- Local chemistry
  - Marine growth, corrosion

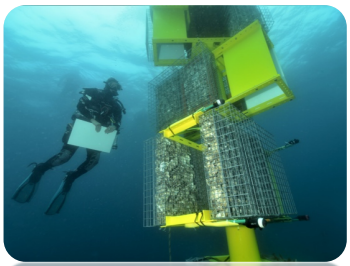
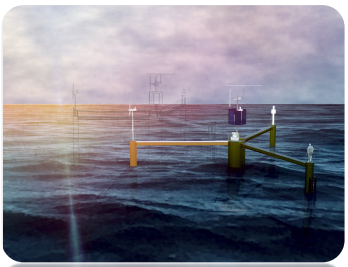
Stakeholder engagement

- Fishing industry
  - Bio-diversity
  - Mari-culture

Key features





https://www.ocergy.com