SUBSEA EXPO

C·POWER™

Co-Demonstrating Mobile and Static Assets Powered by Next-Generation Autonomous Offshore Power System

Diversification: Opportunity through Evolution panel

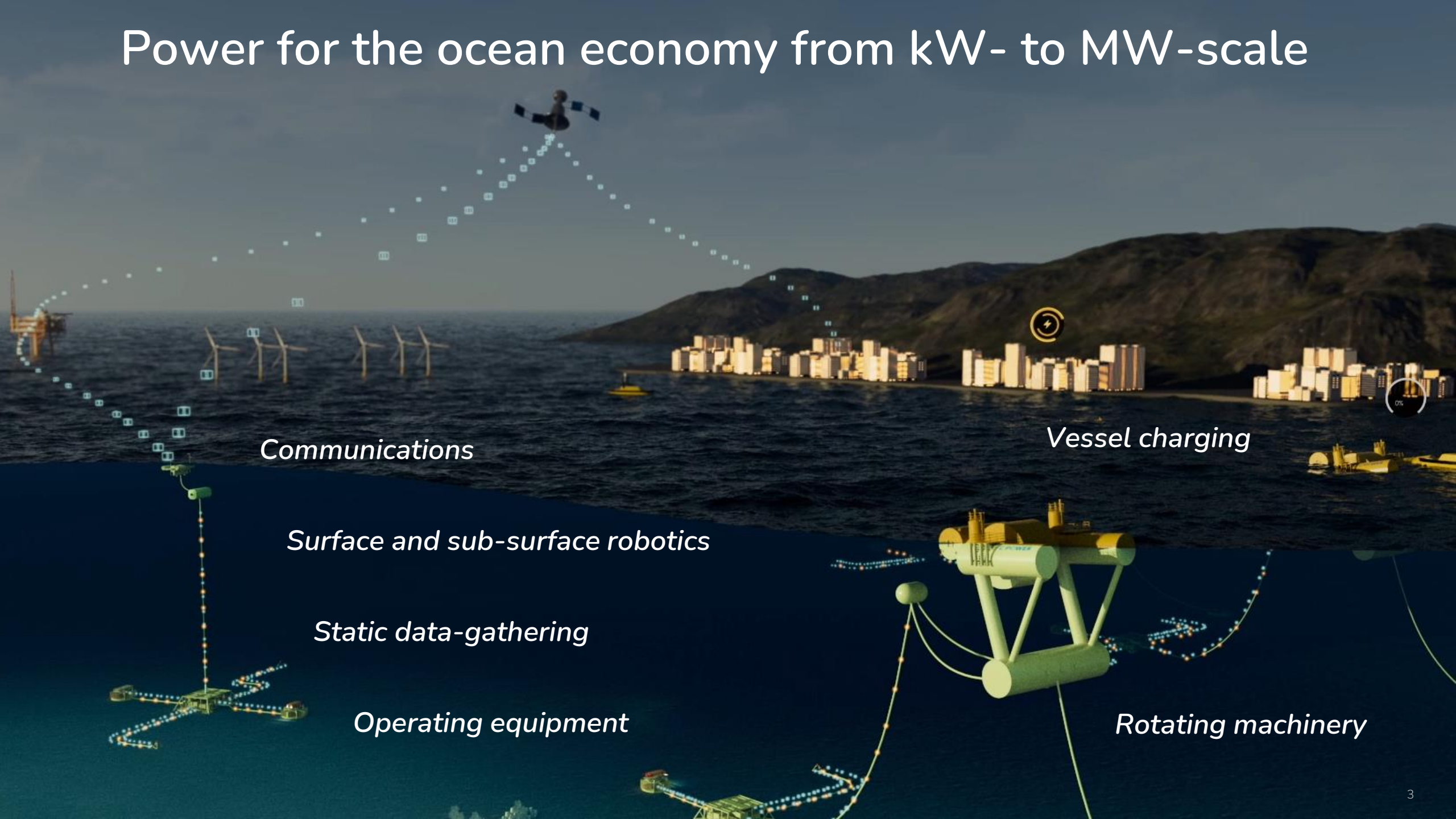
Reenst Lesemann, CEO
rlesemann@cpower.co
+1 434 212-3127

www.cpower.co

C-Power Background

- Ocean energy company providing wave-powered solution
- Technology originated and developed in >$30 million of U.S. DOE, Navy, and DARPA funded projects
- A decade of engineering, modeling and testing and sea trials alongside 3rd party technical reviews by DNV
- Purpose-built product range covering kW- to MW-scale power requirements
- 51 patents granted to date

Power for the ocean economy from kW- to MW-scale



Our offshore power products

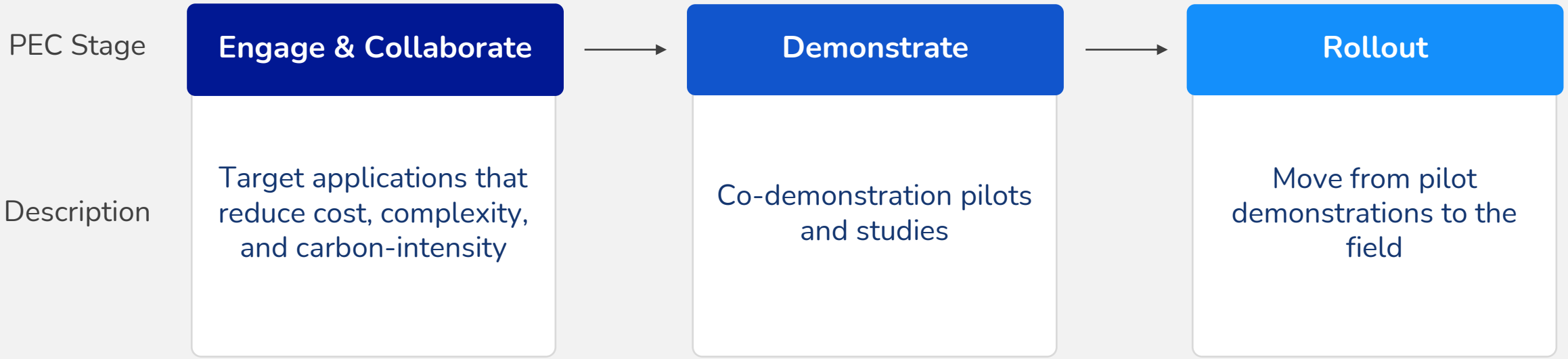
SeaRAY™

kW-scale

StingRAY™

MW-scale

Our Partner Engagement and Co-Development (PEC) program facilitates co-demonstration



PEC leverages C-Power's federally funded pilots to co-demonstrate with Tier 1 and Tier 2 suppliers, OEMs, and owner/operators.

SeaRAY development roadmap

DARPA – WEBS
2017

Drifting - Wave

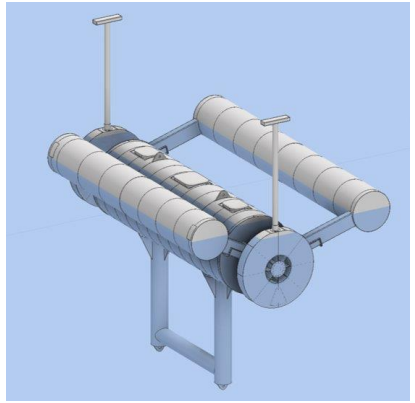
TigerRAY
Wave Power
System (WPS)
2021

Drifting - Wave

Hawaii SeaRAY
Autonomous Offshore
Power System (AOPS)
2023

Moored – Wave+Solar

Oregon SeaRAY AOPS
2024



Moored – Wave+Solar

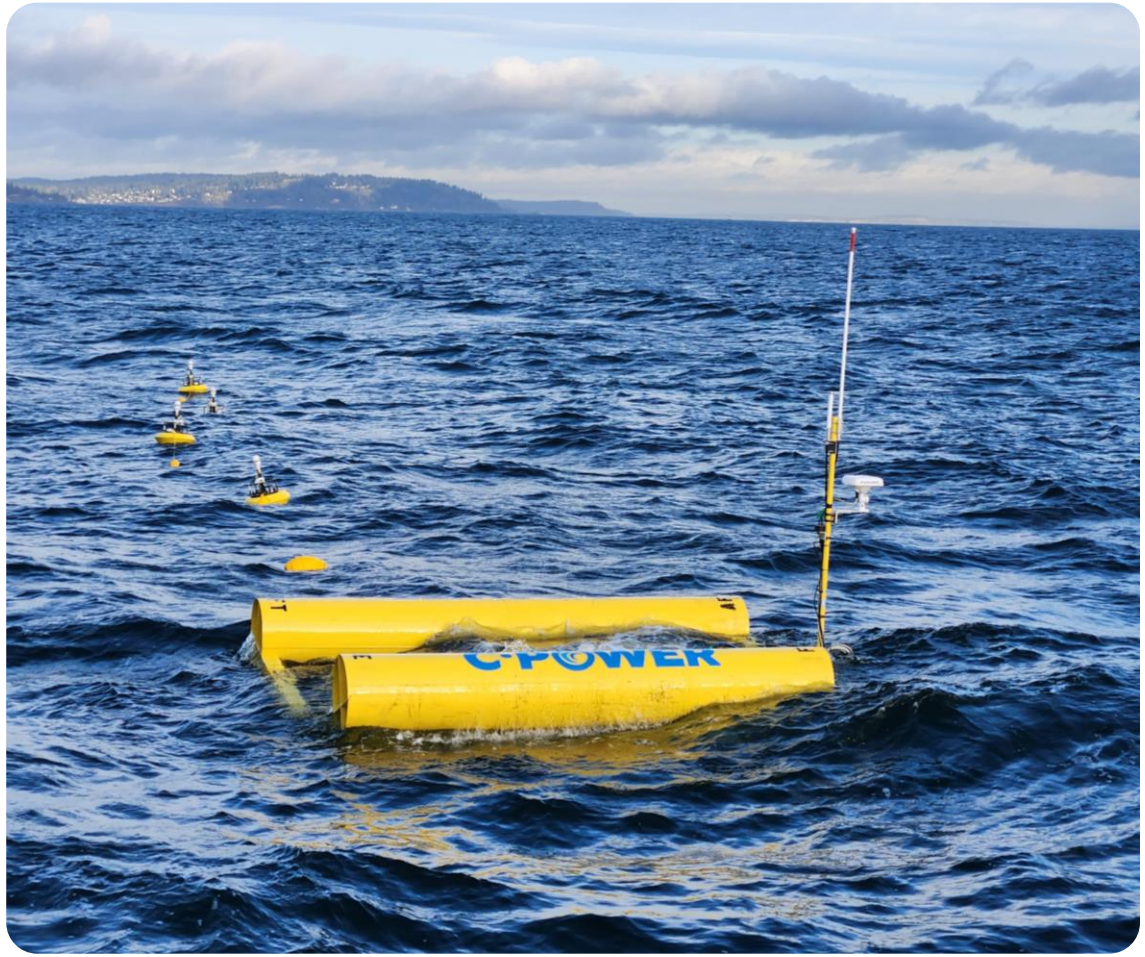
U.S. NAVY PHASE 1, 2 & 3 DEPLOYMENTS

SeaRAY Wave Power System (TigerRAY drifting model)

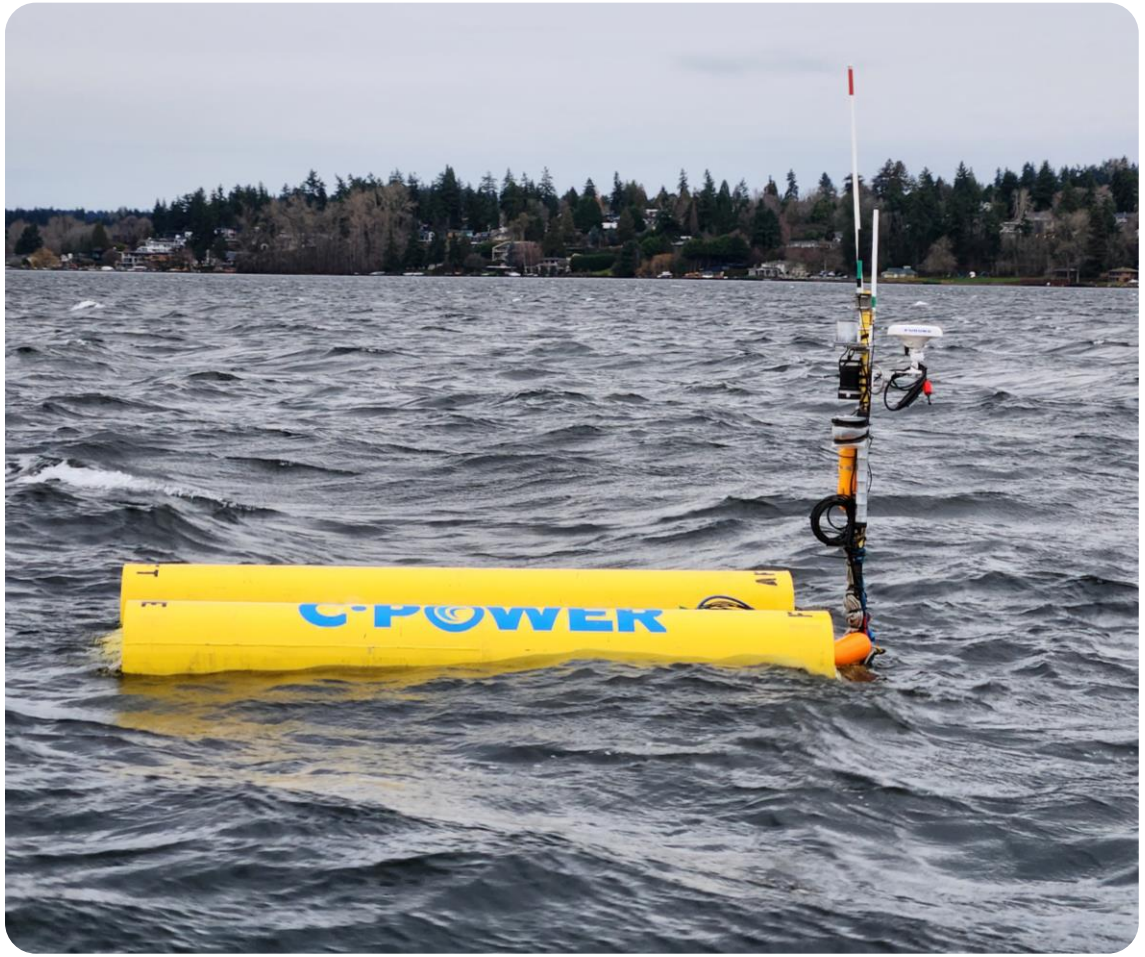
C-POWER

TigerRAY loaded on trailer for shipment

Phase 2 deployment



Phase 3 deployment

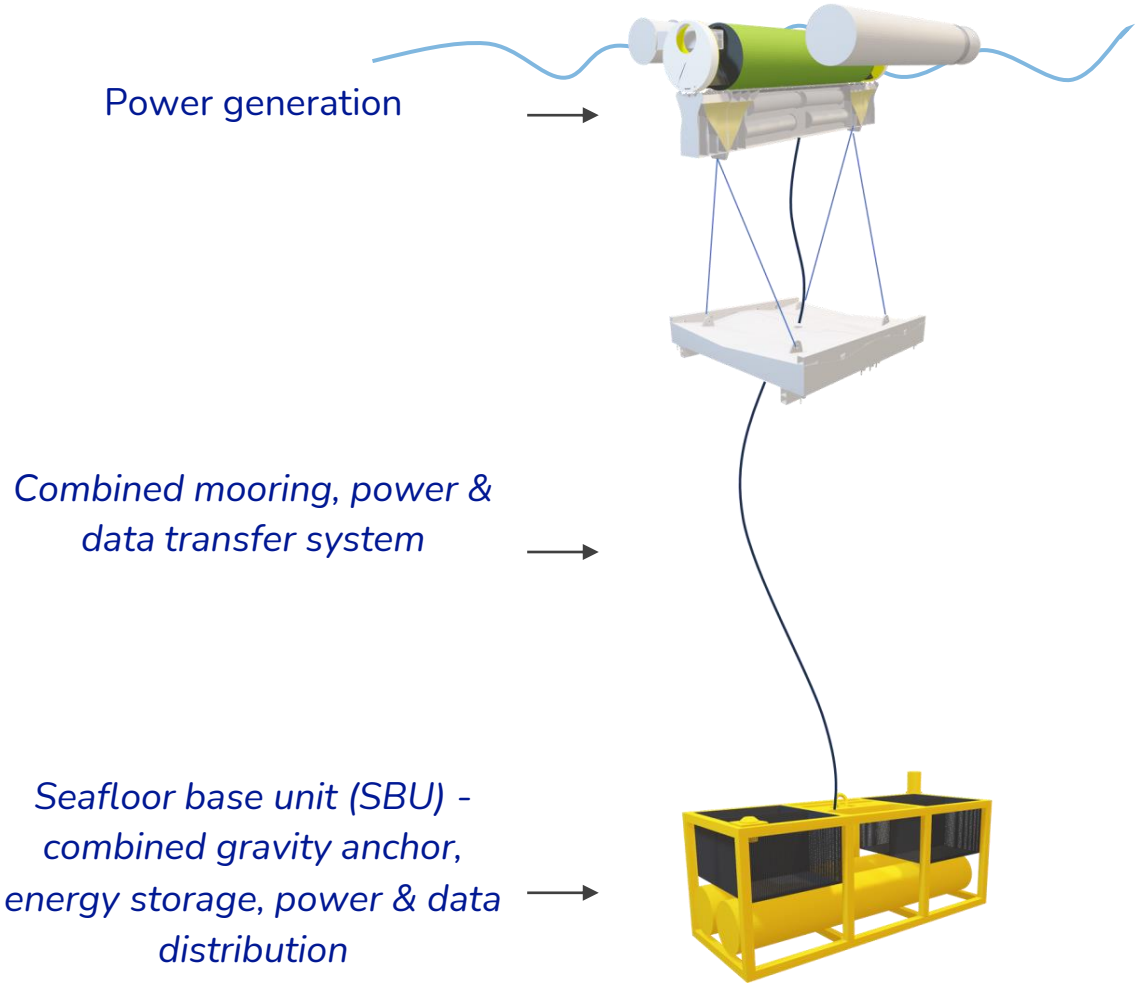


WAVE ENERGY TEST SITE (WETS), HAWAI'I

Hawai'i SeaRAY AOPS

C·POWER

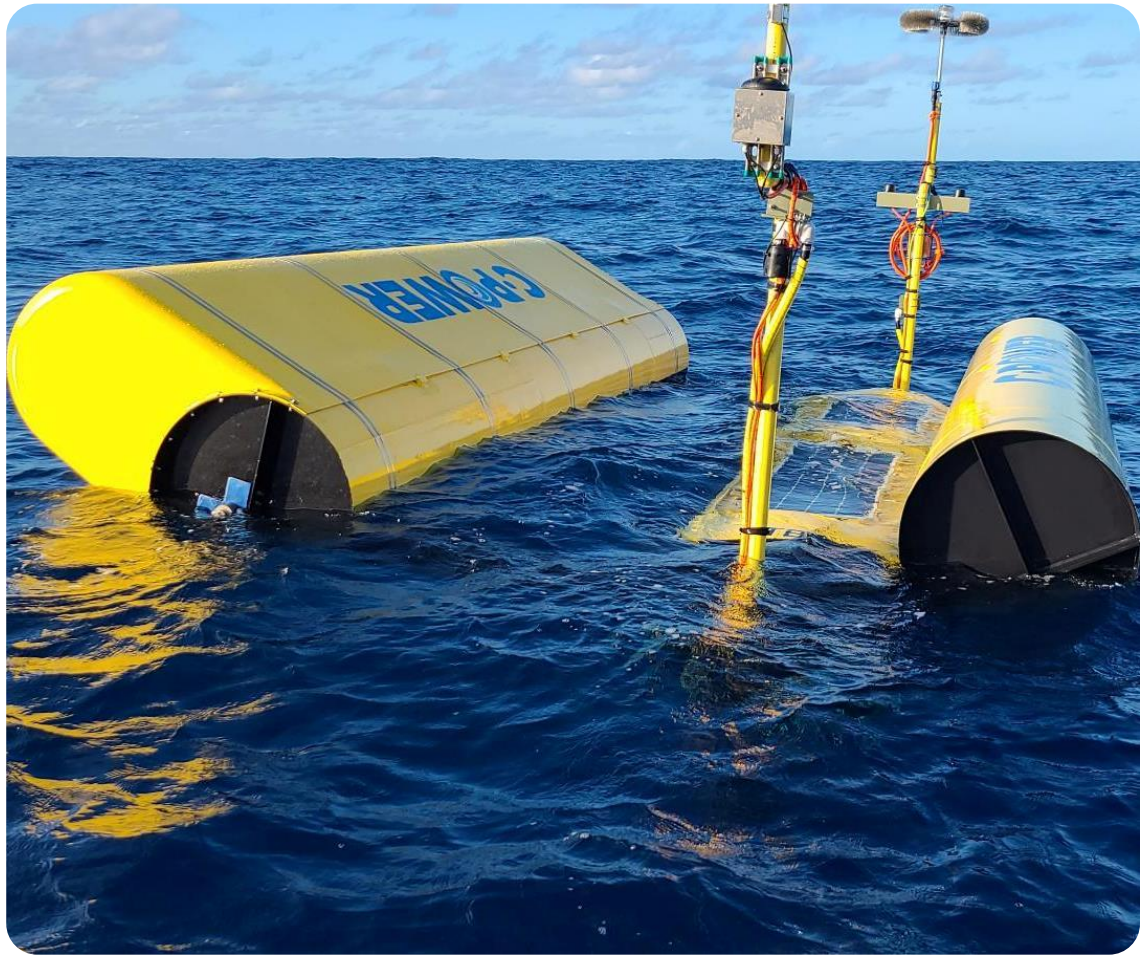
SeaRAY Autonomous Offshore Power System (AOPS)

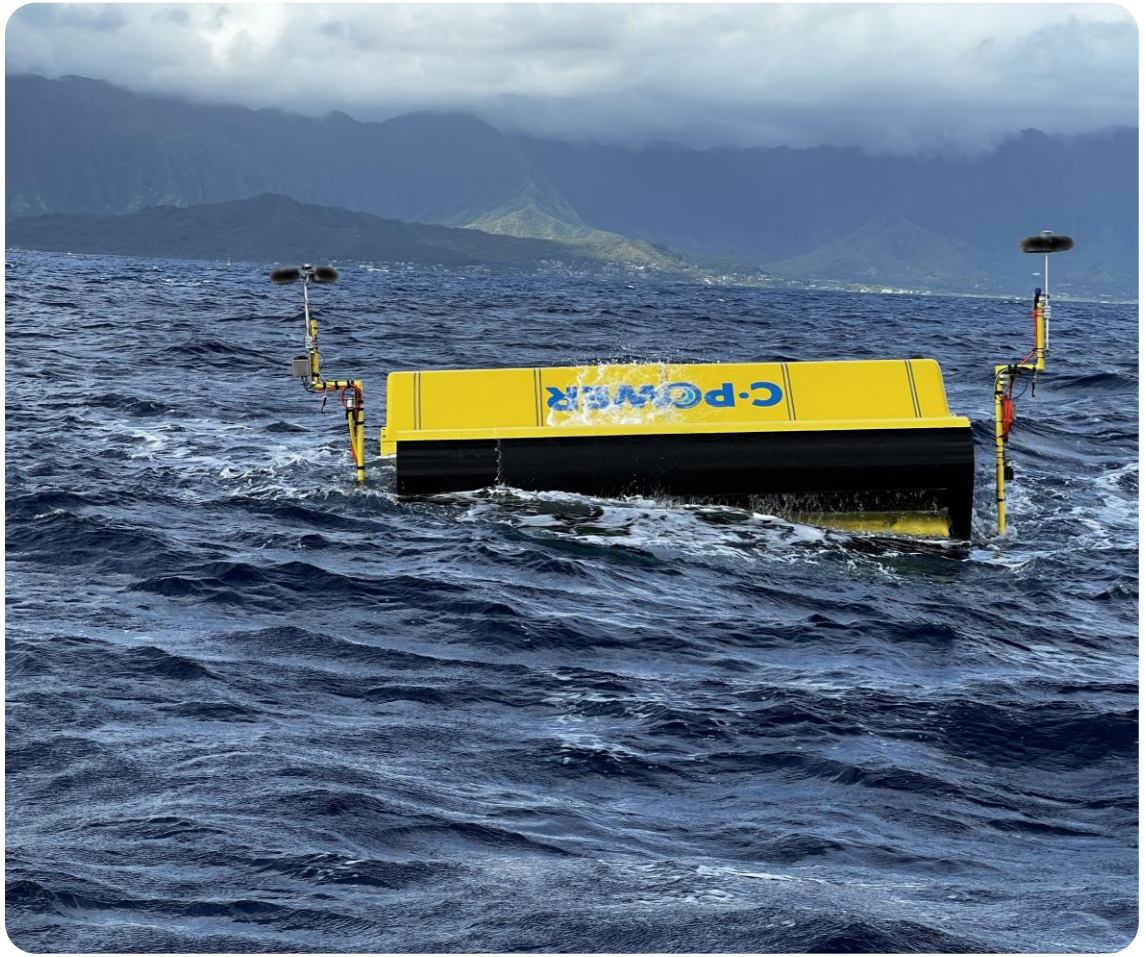


Delivery to Hawai'i

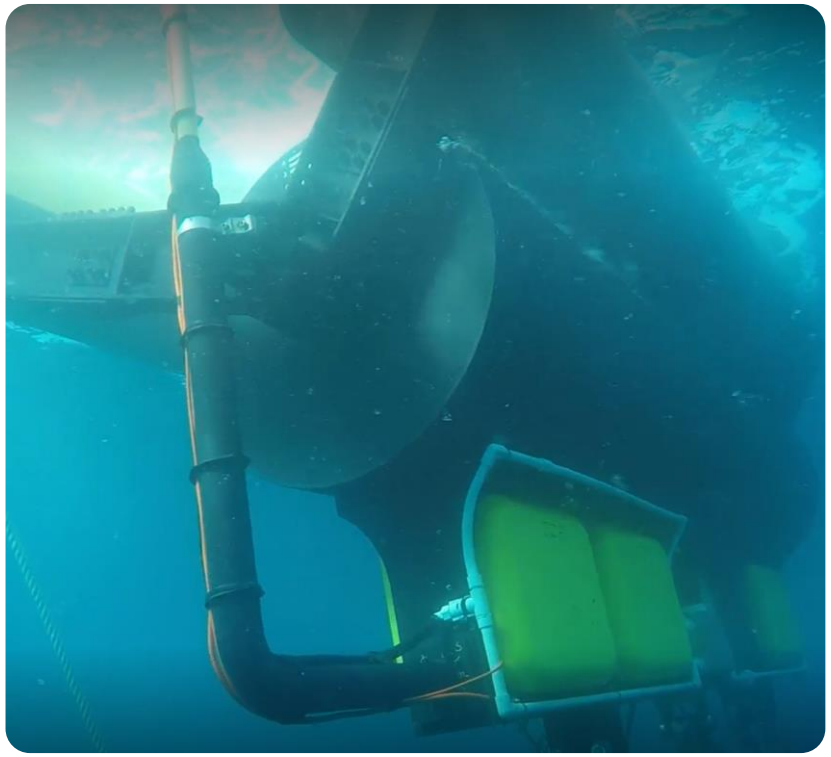
In-harbor operational trials

Deployed Hawai'i SeaRAY AOPS

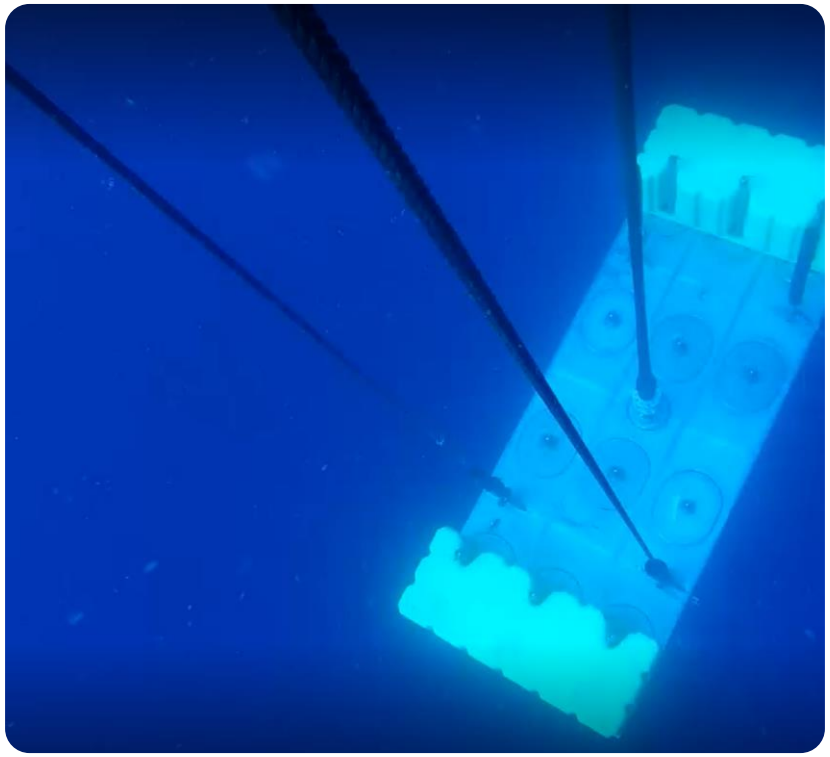




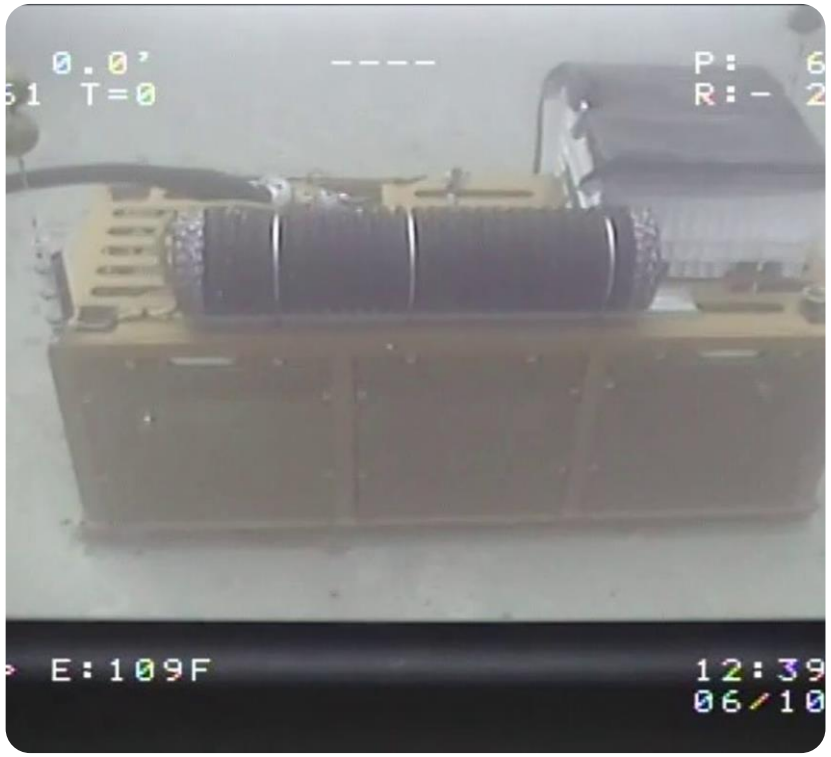
AOPS subsea components



SeaRAY



Heave plate and mooring line

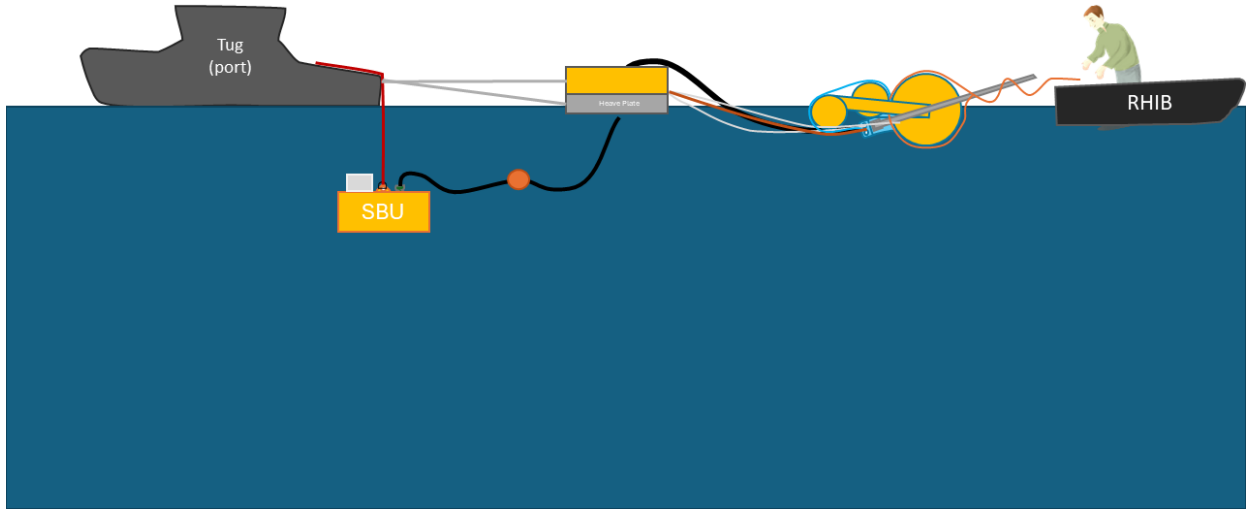


SBU

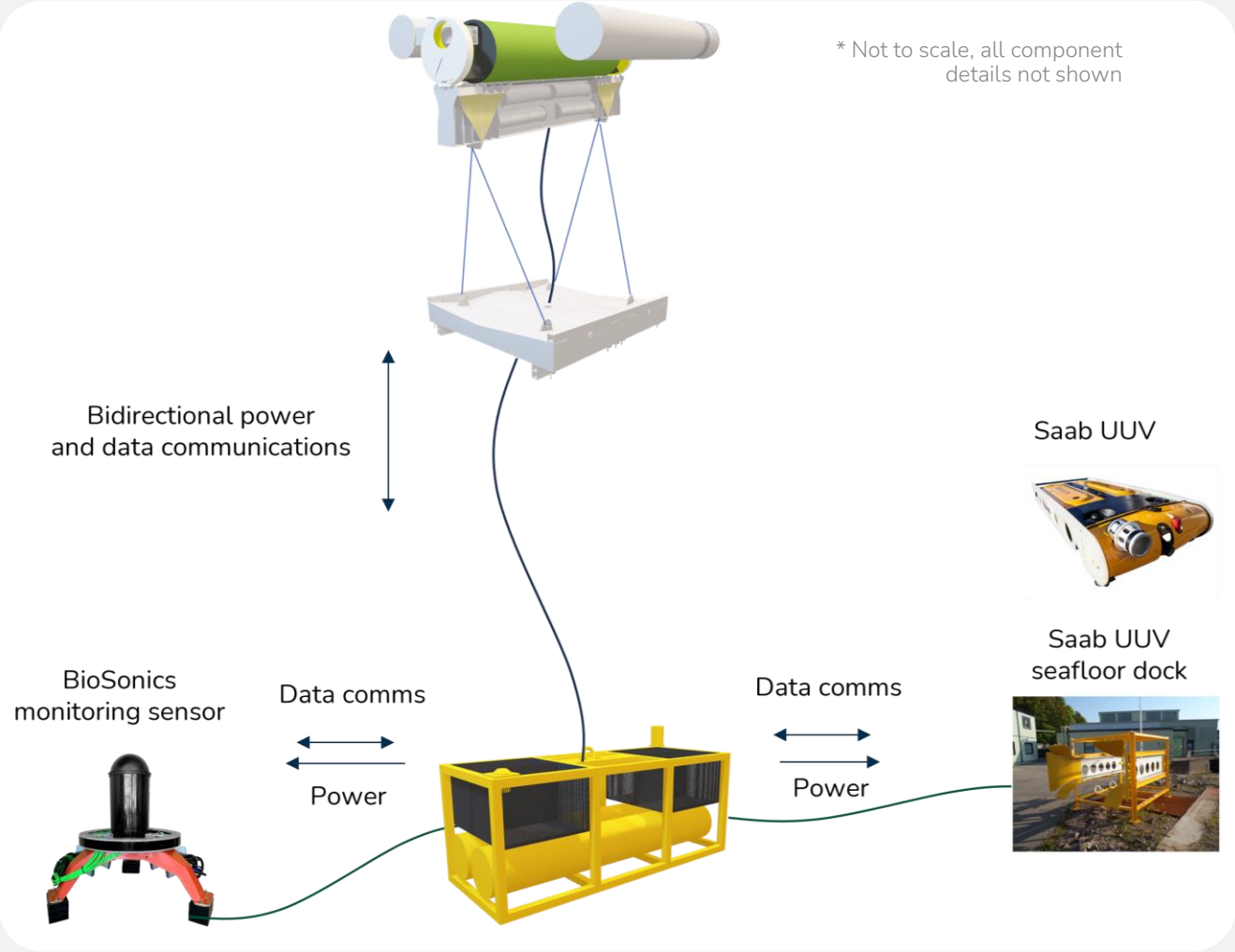
Phase 1 completion and tow in

Towed AOPS storyboard – Phase 2

Full string, towed deployment – anchor to surface



Hawai'i Phase 2 – Trident Warrior / RIMPAC 2024



- World's largest maritime military exercise (26 nations participated in 2022, 34 expected in 2024)
- 1st PEC program co-deployments
  - BioSonics seafloor monitoring sensor
  - Saab UUV
- Experiment execution July 2024

PACWAVE TEST SITE, OREGON

Oregon SeaRAY AOPS

C·POWER

Oregon SeaRAY AOPS

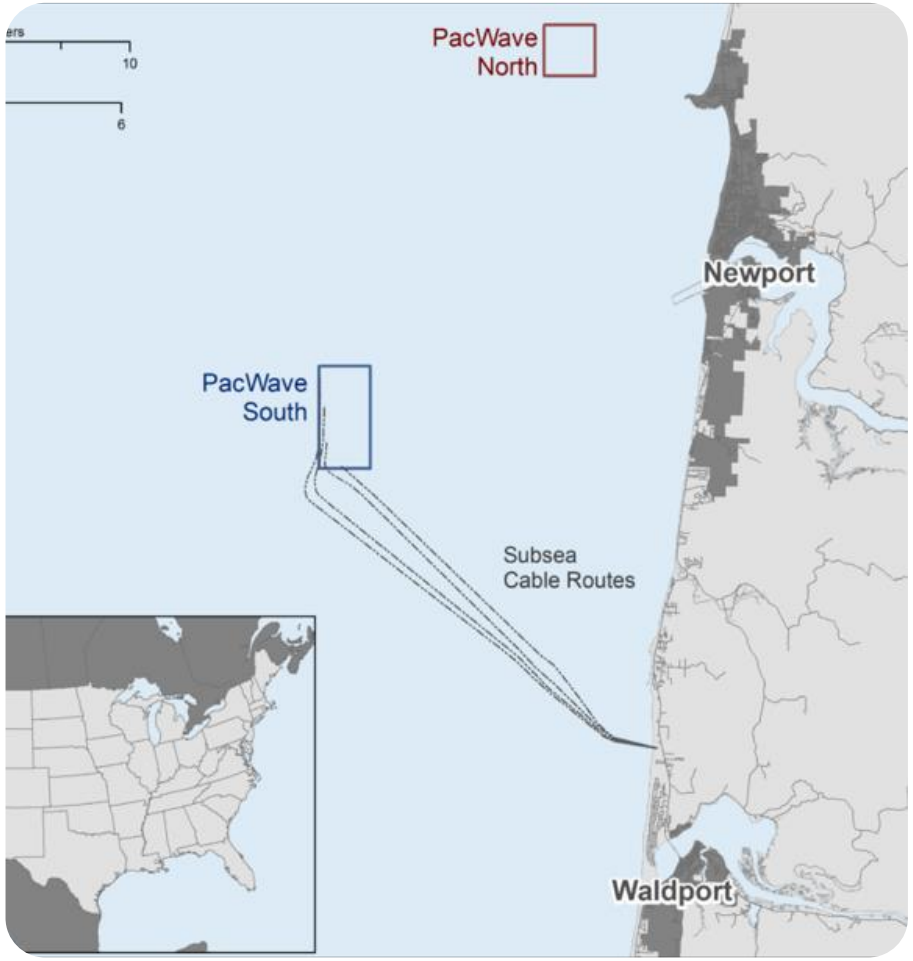
C-Power and U.S. Department of Energy sponsored

4th generation SeaRAY AOPS

- Oregon model more than 2x output of Hawai'i model
- Shippable in standard ocean containers
- New capabilities benefit all targeted market sectors
- Moored system with 18-month deployment at PacWave South test site

PEC co-demonstrations

- Static and mobile assets
- Surface and seafloor
- Broad range of applications and market sectors



Supported assets and partners

Sonardyne Origin 600 ADCP

- Seafloor base mounted

Wavefront Systems Sentinel 2 IDS

- Seafloor base mounted

Fugro sensor package

- Sensors include eDNA sampler, hydrophone, observatory camera, and Ph + turbidity measurements
- Mounted on seafloor lander

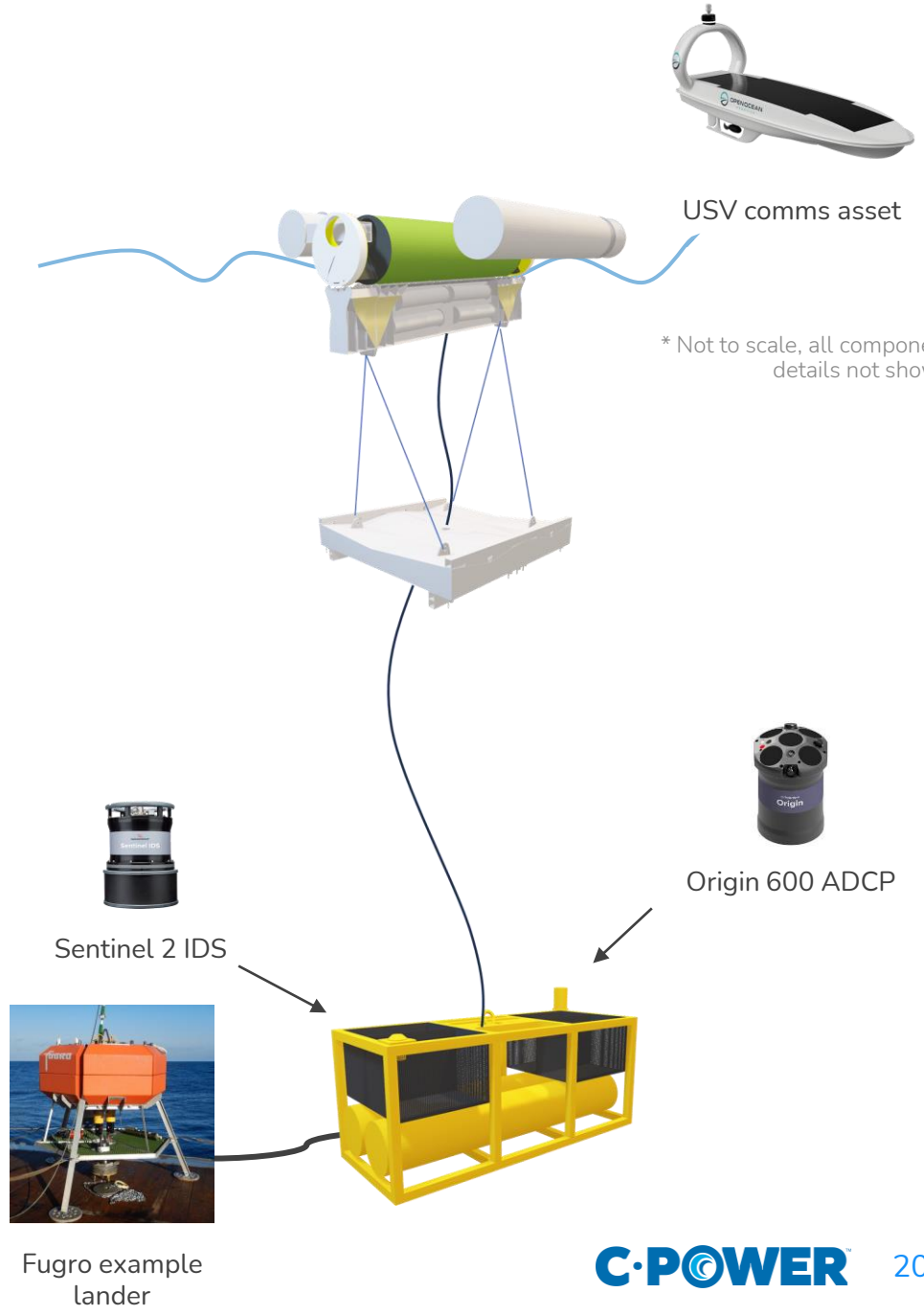
Open Ocean Robotics USV data muler

- Surface system

Shell Technology - Marine Renewable Program

- Project support

Subsea7 (TBD)



Major AOPS enhancements

A – Surface components

- Longer service life
- Increased generation capacity
- Next gen power electronics & SCADA
- Satellite communications

B – Mooring components

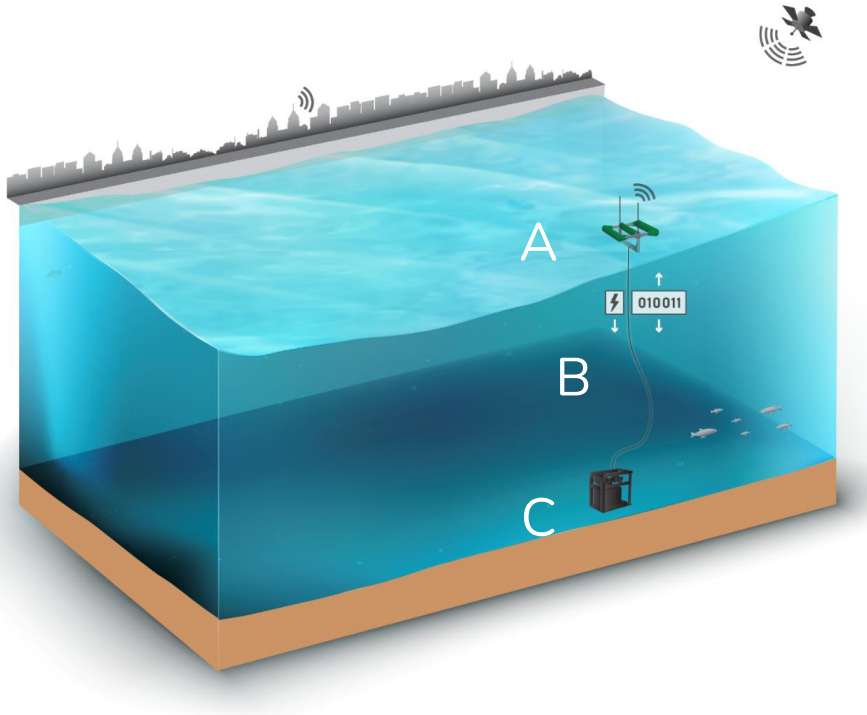
- Deep-water ready mooring

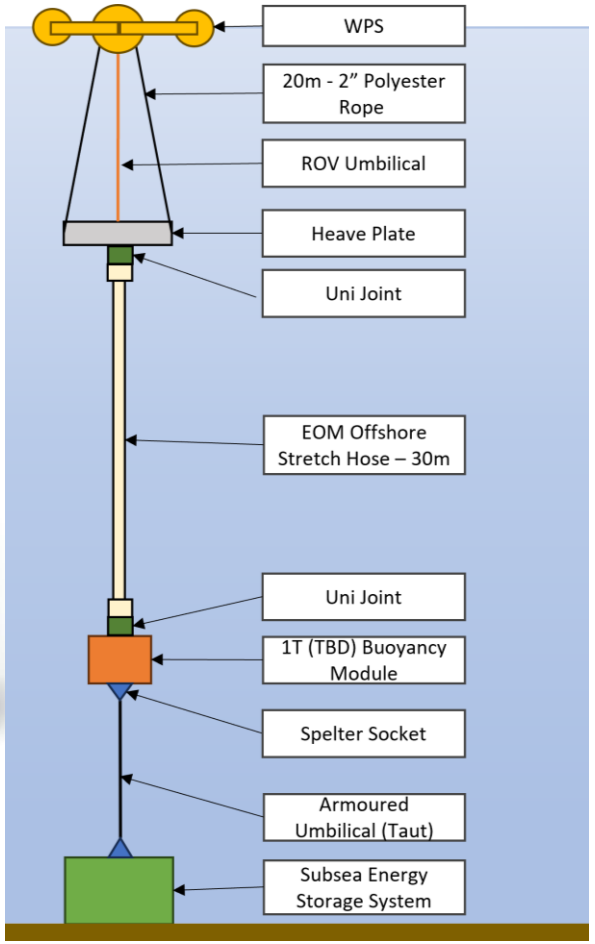
C – Seafloor components

- Broader asset support capabilities

Other

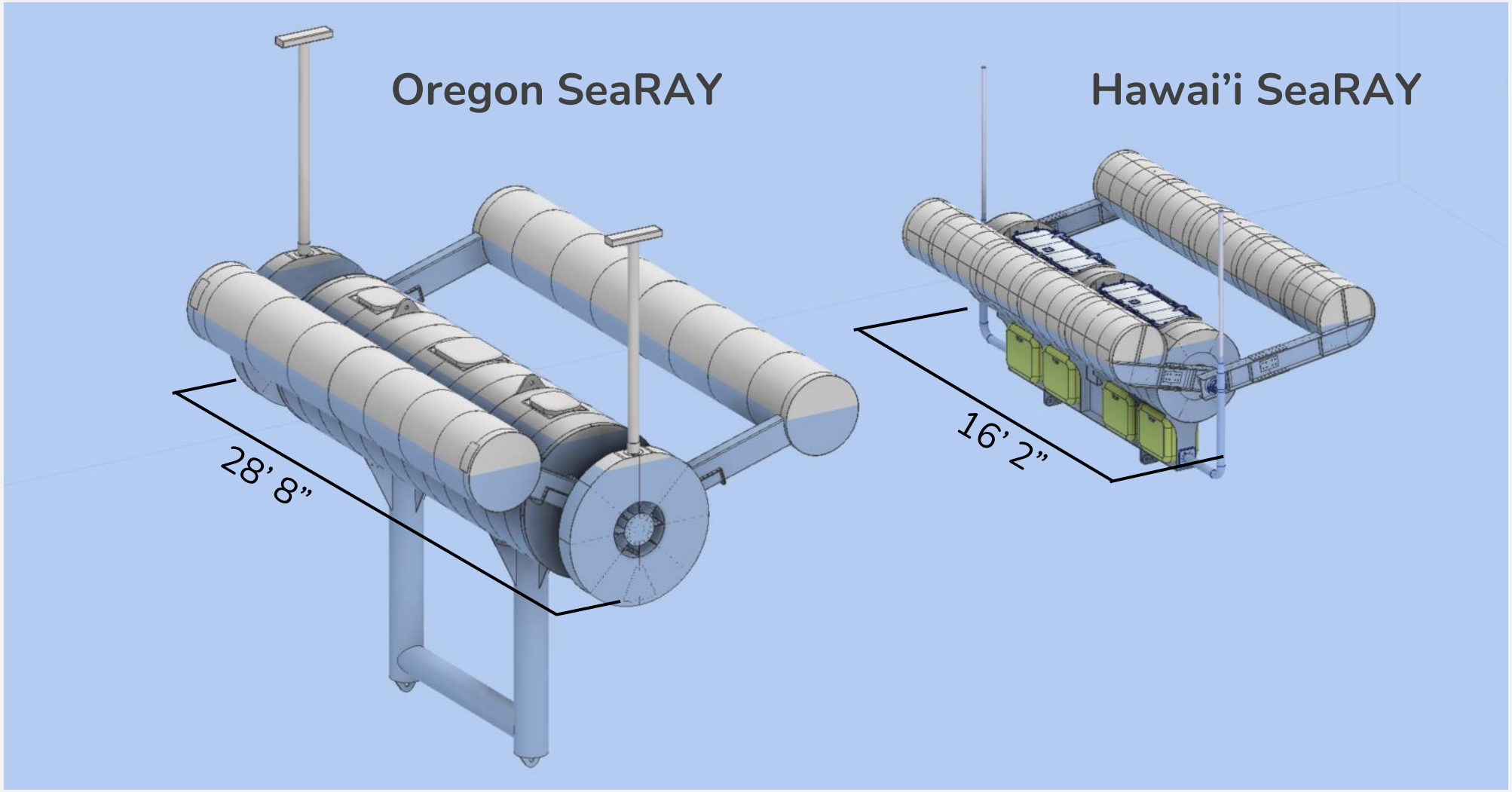
- O&M & logistics strategy improvements





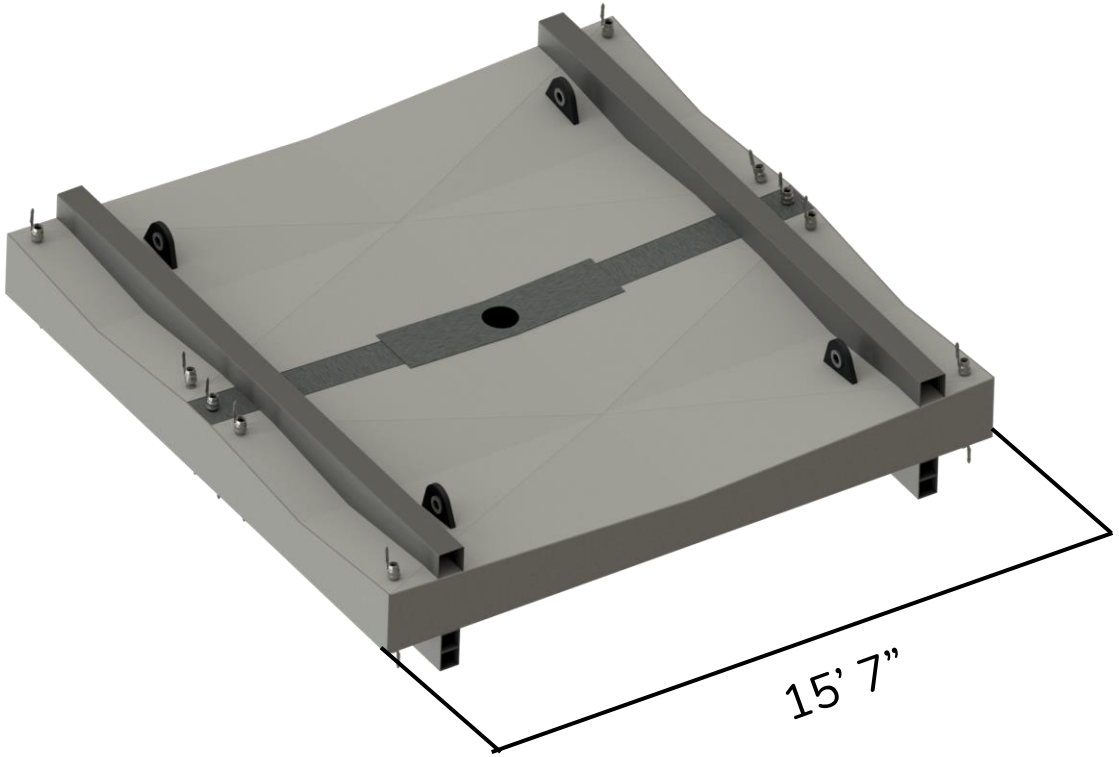
Deepwater mooring

Hull upgrades and size comparison

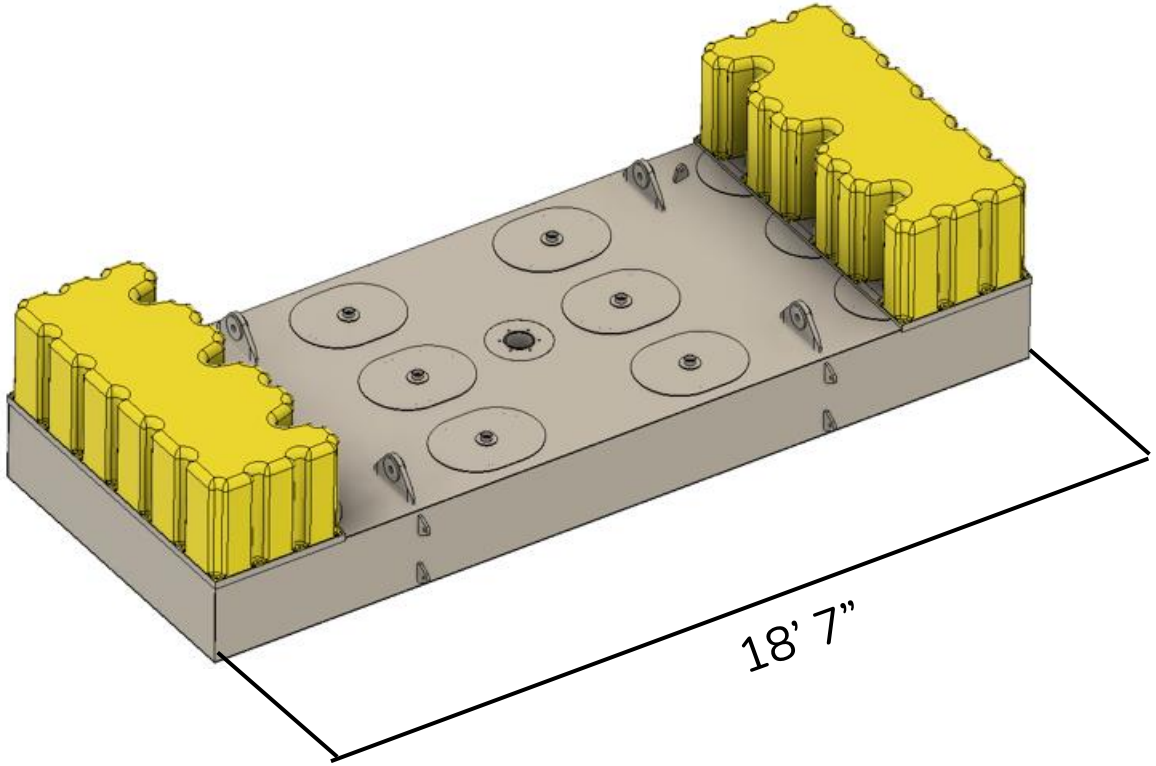


Heave plate optimization

Oregon SeaRAY



Hawai’i SeaRAY



Accelerating field deployments through co-demonstration

- Two part strategy
  - Market discovery
  - Implement, integrate, and co-demonstrate
- Market driven product roadmap
  - Making sufficient energy supplies available vs how much can be produced at any time
  - Streamlined deployment/recovery
  - Non-complex, deepwater-ready mooring
  - Hardened systems and physical and cyber-security
  - Broadened asset support
- Customer and partner participation
  - 8 ***Demonstrate*** partners across multiple in-water pilots
  - 40 ***Engage*** participants

Thank you.

C·POWER™

Reenst Lesemann, CEO
rlesemann@cpower.co
+1 434 212-3127

www.cpower.co