

Powering the Blue Economy

Unlocking new opportunities in ocean science, security, and maritime technology through distributed applications of marine renewable energy.

2018 Ocean Renewable Energy Conference

September 18, 2018

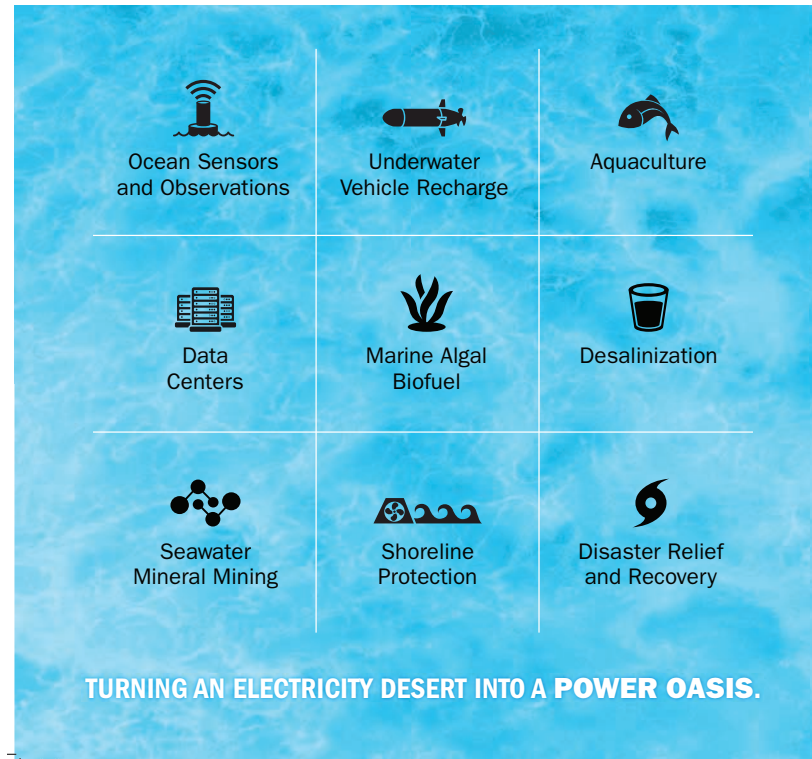
Tim Ramsey – US Dept of Energy, Program Manager
– Marine and Hydrokinetic Program



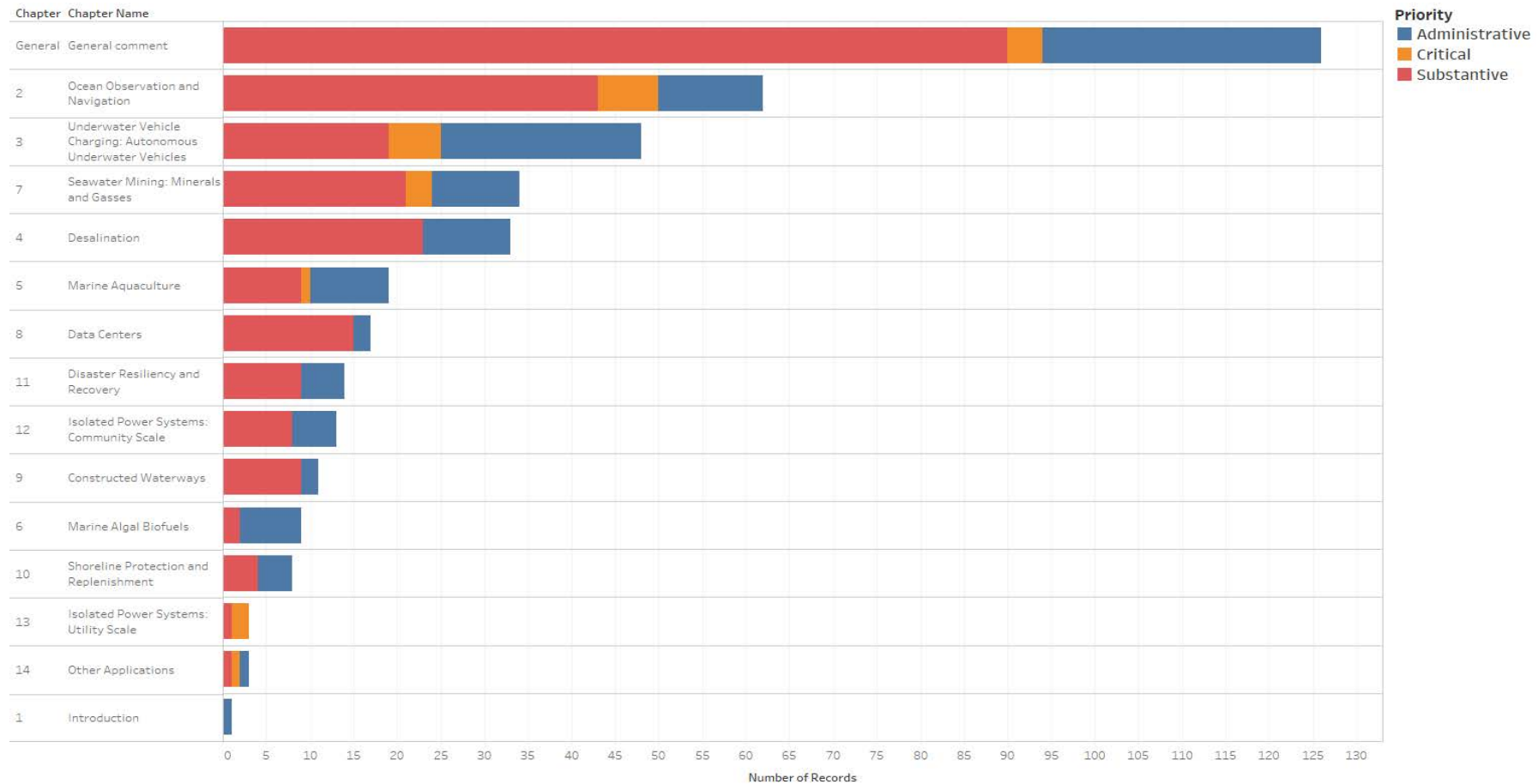
Energy Innovation for the Blue Economy

U.S. DEPARTMENT OF
ENERGY | Office of ENERGY EFFICIENCY
& RENEWABLE ENERGY
WATER POWER TECHNOLOGIES OFFICE

MARINE RENEWABLE ENERGY CAN POWER THE **BLUE ECONOMY**



Maritime Markets Report and RFI Results



- More than 400 individual comments, 41 individual responses
- Report being revised now to address comments
- Targeting late 2018/early 2019 release date

Powering the Blue Economy

Vision: *Unlocking new opportunities in ocean science, security, and maritime technology through distributed applications of marine renewable energy.*

Goals:

- Support competitive R&D opportunities for distributed MHK technologies targeting maritime markets;
- Engage partners in ocean science, security, and maritime technology to achieve shared goals;
- Unlock new growth in the blue economy through energy system innovation; and
- Accelerate MHK technology readiness towards future grid-scale applications.

Program Formation

Power at Sea

- Ocean Sensors and Observations
- Vehicle Recharge
- Data Centers
- Marine Algal Biofuel
- Seawater Mineral Mining
- Hydrogen Production
- Aquaculture

Resilient Coastal Communities

- Desalination
- Disaster Relief/Recovery
- Shoreline Protection
- Remote Communities

- **Program Planning:** Underlying technical challenges within each theme—what do we want to achieve and how will we get there?
- **Early Stage R&D:** Prioritize market ready opportunities (near term wins) and enabling innovations that support multiple markets (present and future)
- **Engagement:** Engage maritime and coastal communities as partners with shared goals. How can MHK benefit *you*?
- **New innovation models:** Add to our talent pool through prizes, competitions, and collaboratives, while leveraging known assets across laboratories, industry, universities.