

# Decarbonization Research Consortium

**WELCOME**

*16 October 2023*

[nps.edu/decarb](https://nps.edu/decarb)

**Decarbonization Research Consortium Meeting**  
**16 October 2023 / 2 – 4 pm ET / 11 am – 1 pm PT**  
**Agenda**

- |             |  |
|-------------|--|
| 2 – 2:10    | Welcome/Introductions<br>Follow-up from September Meeting<br>Status of Roadmap   |
| 2:10 – 3:00 | Lightning Round: Updates from Research Projects<br>Penn State University<br>Colorado State University<br>United States Naval Academy |
| 3:00 – 3:50 | Discussion of Consortium Next Steps  |
| 3:50 – 4:00 | Review of Upcoming Meetings<br>Conclusion  |

# Consortium Next Steps

- Develop and implement Collaboration Strategy with core partners
  - Continue potential research opportunity identification process

# Collaboration Strategy

- Develop and mature a robust collaboration strategy, with six core communities
  - Current Consortium group – foster increased collaboration amongst Consortium members
  - Internal Navy and other DoD – operational energy, climate and resilience constituencies
  - Other USG Agencies – DOE/ARPA-E, DOT, and others (e.g. NASA, EPA, NOAA, etc.)
  - International partners – NATO, TTCP\*, Pacific Islands Partnership, etc.
  - Industry – potentially via the DOT/MARAD U.S. Center for Maritime Innovation (*in work*)
  - Academia – identify leading researchers in other technology areas
  
- Two major goals for collaboration activities are:
  - Better understand ongoing efforts and identify most impactful areas of research to guide and prioritize future years’ research agenda
  - Identify appropriate Navy “role” in various thrust areas, considering:
    - Leverage government-wide approach and R&D portfolios of other partner entities
    - Navy unique requirements that may not otherwise be addressed

\* TTCP – The Technical Cooperation Program (US, UK, Canada, Australia, New Zealand)

# Consortium Next Steps

- Develop and implement Collaboration Strategy with core partners
  - Continue potential research opportunity identification process
- Execute Year 1 Research Agenda
  - Support required Navy-project team collaboration and data collection
  - Develop project specific S&T evolution pathways with each funded research team
- Assess impact of Year 1 research concepts and technologies to overall Navy decarbonization objectives
  - Further develop Roadmap to include more specific targets, as needed
- Align with other roadmap and data collection efforts
  - Work with other efforts to develop methodology to synthesize R&D and project information across technical areas for efficiency, leverage and gap identification purposes
- Explore applying Consortium model and findings to Aircraft
  - Aligns with other NPS work in OE/IE Nexus

# Progress – Research Area Identification

- 1) Issuance of RFP at NPS for research topics
  - 1) Due 18 October
- 2) Discussions with internal Navy communities – dates TBD
  - Aircraft: ONR/NAVAIR/AFRL
  - Deeper dive with Navy TWH community
    - Core question: For maritime platforms, what did we miss in Year 1 that deserves more focus in Year 2?
- 3) Questions/comments/discussion?

# Progress - Collaboration

- 1) Internal Consortium – support execution of Year 1 research agenda
- 2) DOE/DOT (and other USG)
  - Ongoing discussions with Dan Yuska at MARAD
  - Initiated discussion with DOE fuels/maritime POC (Josh Messner)
  - Working align a KO meeting with Navy leadership, DOE and DOT to set out parameters of this collaboration approach
    - Potential MOU/MOA - TBD
- 3) Industry - work with Dan Yuska, at MARAD
  - 1) Longer-term – likely to be via the US Center of Maritime Innovation
  - 2) Nearer-term – need to work with Dan Yuska on a nearer-term path utilizing existing agreements, etc.
- 4) International – recent discussion with Singapore Navy, with focus on fuels
- 5) May look to have DOE and/or DOT present to this group at an upcoming meeting – TBD
- 6) Questions/comments/discussion?



# NAVAL POSTGRADUATE SCHOOL

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# Decarbonization Research Consortium

## Path Forward

November	30 November (virtual); 1300 – 1500 ET
December	No Meeting
January	Virtual Meeting, Date TBD
February	Date TBD: In-person Full Day Location Colorado State University Agenda will focus on Research Presentations & discussion.

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