



Background

- NOAA asked the SAB to consider conducting a study of creating an NZE NOAA Fleet by 2050 – discussed at August SAB Meeting
- Jesse Ausubel, Anthony Wu and I discussed & consulted with a few others
- Proposed response to NOAA on SAB website with recommendations on following slide

NZE NOAA Fleet - Recommendations



Recommendations

- **SAB believes achieving an NZE NOAA Fleet by 2050 is a worthwhile topic to pursue**
- **SAB believes it should be led by NOAA, and not originate with the SAB**
- **The study should not be a science/research study – it should instead focus on applications, engineering, and a Strategic Plan for NZE NOAA Fleet 2050**
- **SAB believes critical aspects of the study include:**
 - Success of implementation requires NOAA/OMAO ownership
 - Urgency of action – actions taken before 2030 are critical to achieve NZE Fleet by 2050
 - Role of CONOPS and use of associated technology (e.g., AUVs) has large potential impact and requires input from overall NOAA strategy and timeline for implementing associated technology
- **SAB recommends dividing a program into phases to achieve the 2050 NZE goal**
- **SAB is willing to help NOAA, including:**
 - Develop by 12/31/22 a recommended outline for an initial study by NOAA
 - Assemble a team to review progress and make recommendations
 - Assist with NOAA study as it progresses to enable quick feedback/course changes

Outline for Phase 1 Study



1. Executive Summary

2. Introduction & Background

- a. Purpose
- b. Background
- c. Summary of Programs by Others

3. Scope of Study

- a. Goals & Objectives
- b. Measures of Value
- c. Prioritization
- d. Boundaries

4. Related Impacts and Considerations

- a. Personnel
- b. Regulatory, Legal, Administrative Requirements
- c. Port Infrastructures
- d. Impact of Alternative CONOPS Strategies

5. NOAA Fleet Baseline Data

- a. Vessel Data
- b. Historical Emissions Data

6. Strategic Plan for NZE NOAA Fleet

- a. Phases & Gates
- b. KPIs
- c. Phase 1

7. Potential Partners

- a. Related Efforts by Others
- b. Potential Partners & Beneficiaries