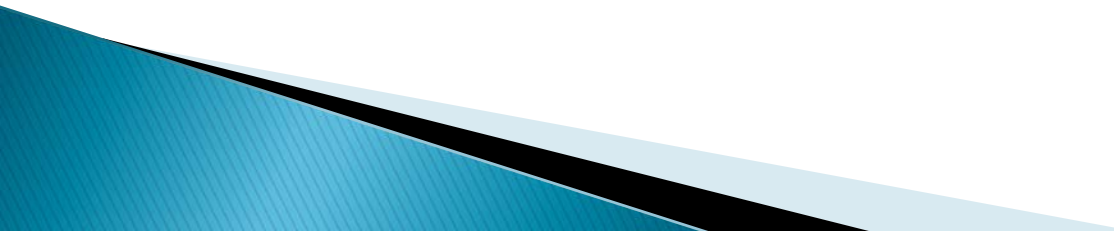


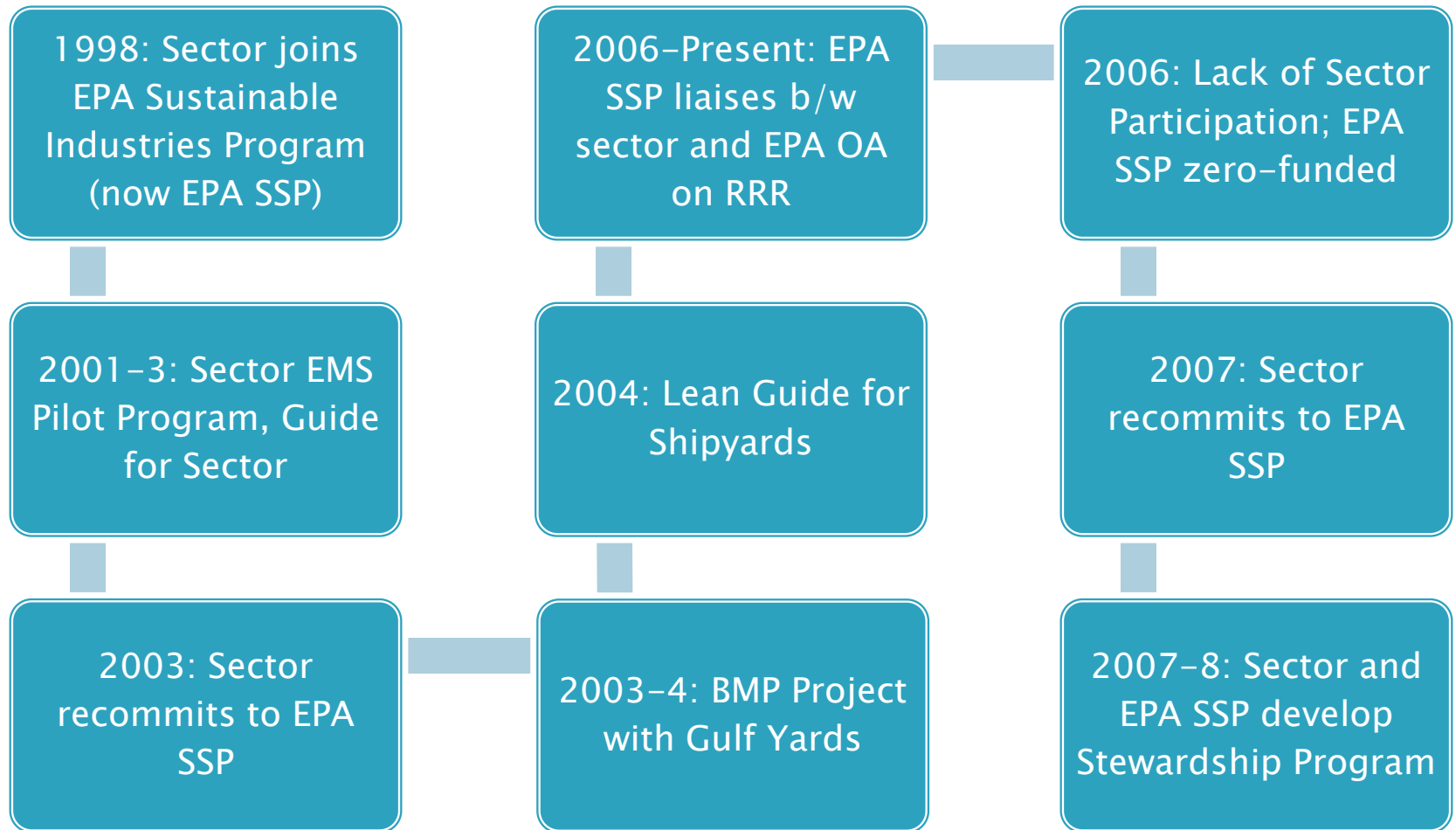
# Shipbuilding and Ship Repair Environmental Stewardship Program: Environmental Metrics Initiative

NSRP Environmental Technologies Panel  
New Orleans, LA  
February 18, 2009

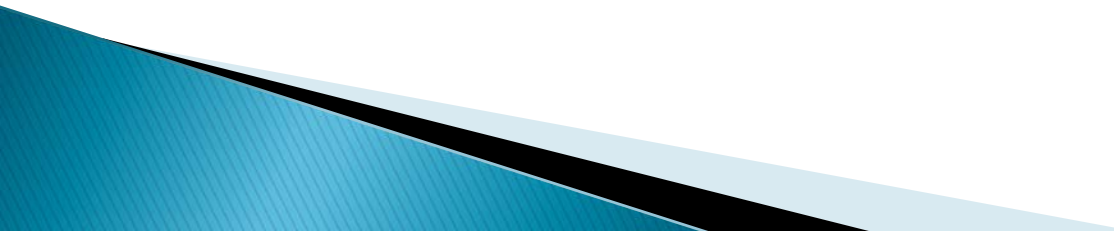
# Overview

- ▶ Background
  - ▶ Environmental Metrics Initiative
    - Reporting
    - Timing
    - Remaining Issues
  - ▶ Next Steps
  - ▶ Questions and Discussion
- 

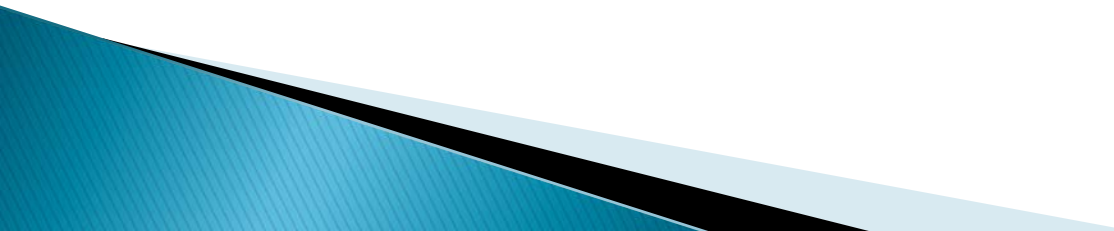
# Background: Sector and EPA SSP



# Background

- ▶ ASA, SCA, and member yards working together with EPA Sector Strategies Program
  - ▶ 2007–8, developed Environmental Stewardship Program
  - ▶ Step–wise approach to implementing Stewardship Program
  - ▶ Environmental Metrics Initiative
- 

# Environmental Metrics Initiative: Overview

- ▶ **Goal: Encourage and build capacity among shipyards to measure and report on key aspects of their environmental “footprint”**
  - ▶ Letter of commitment to EPA SSP and trade associations
  - ▶ Selected environmental metrics reported to trade associations annually
  - ▶ Trade associations blind, aggregate and normalize data and report it publicly
- 

# Environmental Metrics Initiative: Reporting

- ▶ Yards will report data for:
  - PM Emissions
  - GHG Emissions
  - Hazardous Waste
  - Nonhazardous Waste
- ▶ Is EMS program in development or in place?
  - Should be based on recognized EMS format
- ▶ Description of facility stormwater BMPs
  - Brief overview of BMPs in place

# Environmental Metrics Initiative: Reporting

## ▶ PM Emissions

- Report what is required for state and federal rules
- Include PM emissions related to combustion, blasting, welding, surface coating, aerosols, metal cutting and burning – as required for state/federal rules
- In second year, all yards report surface coating emissions for benchmarking, whether or not required for state/federal rules

## ▶ GHG Emissions

- Report direct emissions (Scope 1: Under reasonable yard control; includes fuel purchased)
- Report indirect emissions (Scope 2: Purchased electricity, including shore power)

## ▶ Hazardous Waste

- Report RCRA reported waste
- Not included: waste from one-time remediation projects

## ▶ Non-hazardous Waste

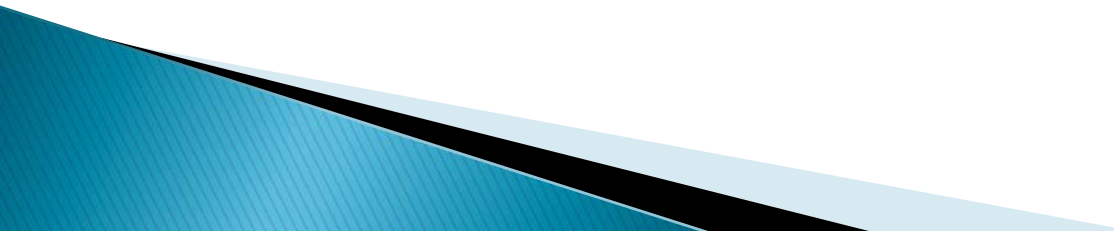
- Report waste taken offsite not reported for RCRA

# Environmental Metrics Initiative: Reporting

## ▶ Normalized Data

- After data is reported to trade associations, will be aggregated and normalized
- Workgroup decided to use OSHA man-hours worked as normalization factor for 2008 reporting
- Will also normalize based on the most recent U.S. Dept. of Commerce data on value of shipments
  - There is a 2 year lag on data
  - Value of shipment of all yards, not just those in Metrics Initiative
- Decide what factor is best for future years

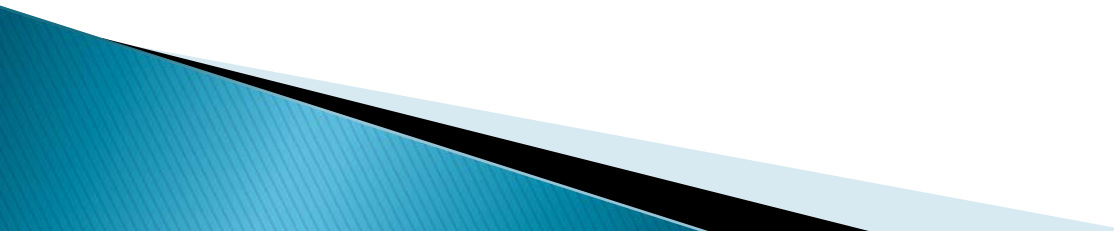
# Environmental Metrics Initiative: Timing

- ▶ Event for yards to recommit in Spring 2009
    - Attendance by high-level EPA official
    - At a participating shipyard; broad participation encouraged
  - ▶ 2008 data to trade associations July 1, 2009
  - ▶ Trade associations will blind, aggregate and normalize data and report it to sector
  - ▶ 11 yards have signed up for program
- 

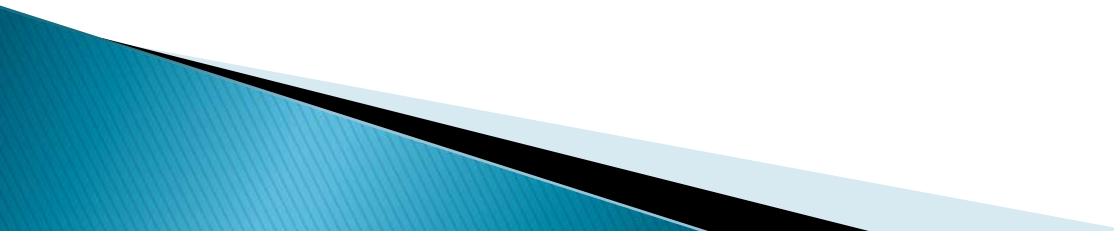
# Environmental Metrics Initiative: Participating Yards

- ▶ NASSCO
- ▶ Bath Iron Works
- ▶ Northrop Grumman – Newport News
- ▶ Northrop Grumman – Avondale Operation
- ▶ Northrop Grumman – Ingalls Operation
- ▶ Electric Boat
- ▶ BAE Systems, San Diego
- ▶ Atlantic Marine, Jacksonville
- ▶ Signal International
- ▶ Todd Pacific
- ▶ Austal

## Environmental Metrics Initiative: Remaining Issues

- ▶ How should commitment be acknowledged?
  - ▶ How and when should the aggregated, blinded data be released?
  - ▶ What additional steps could be taken to support benchmarking among participating yards?
  - ▶ **Workgroup will meet over coming months to answer these questions**
- 

# Next Steps

- ▶ Finalize program, report 2008 data
  - ▶ Continuous Improvement: One metric added every year for stormwater compliance, air toxics, water use
  - ▶ Refine program, encourage more yards to join
  - ▶ Develop next pieces of stewardship program
  - ▶ Eventually, have full stewardship program in place
- 

**Questions?**

**Comments?**

