



## **Sustainable Supply Chain Advisory Committee**

### ***April Tour & Roundtable Discussion Summary***

**Date:** April 25th | 11 am – 3 pm

**Location:** Tour of an OOCL ship at the Long Beach Container Terminal & roundtable discussion at the Port of Long Beach Maintenance Facility

**Attendees:** Attachment A

**Meeting Agenda:** Attachment B

#### ***Key Discussion Items***

##### **1. Vessel boarding - OOCL Southampton**

- The Committee and port staff toured the OOCL Southampton container vessel, including the engine room.

##### **2. Discussion of emission reduction strategies and opportunities**

- Following the OOCL Southampton tour, the group convened for a roundtable discussion on various emission reduction strategies for OGVs, including regulatory factors, retrofits, new technologies, etc.
- During the discussion, a representative from MAN Diesel & Turbo provided a guest presentation on the technologies MAN offers for emission reductions. The presentation slides can be found in **Attachment C**.
- Additional topics that were discussed include:
  - **Existing policy/regulatory setting:** A number of policies and regulations are currently in place to reduce OGV emissions. These include:
    - ARB's "At-Berth" regulation (applies to container, PAX, and reefer vessels in fleets with a minimum number of visits per year)
    - ARB's "California Ocean-Going Vessel Fuel Regulation"
    - IMO's Annex IV NOx and sulfur regulations and the US ECA
    - IMO GHG reductions of 50% by 2050 from 2008 levels
    - SPBP Vessel Speed Reduction program
    - Environmental permitting requirements for terminals
    - The group also discussed new regulations and policies, or changes to existing regulations/policies that are anticipated in the near term (e.g. expansion of the ARB At-Berth regulation).



- **Fleet turnover:** The group discussed that SoCal ports do not anticipate Tier 3 vessels to begin displacing older vessels within the next ten years. The group also discussed the mechanisms (policies, incentives, and other strategies) that may be available for the ports and other state clean air agencies to incentivize the accelerated transition to Tier 3 vessels.
- **After treatment strategies:** The group discussed the current state of marine after treatment technologies, such as scrubbers and SCR.
- **Alternative fuels, including LNG and propane:** The group discussed what other diesel alternatives exist for the OGV market and what the expected emission reductions are for each. The group discussed that LNG-powered vessels are entering the market in Europe and in other parts of the U.S. MAN discussed that they are seeing some growing interest around propane-powered vessels.



## Attachment A

### *Meeting Attendees*

<b>SSCAC Committee Members</b>	
Adrian Martinez	Earth Justice
Stella Ursua	GRID Alternatives
Peter Peyton	Former ILWU
Marnie Primer	FuturePorts
Cynthia Marvin	CARB
Matt Miyasato	SCAQMD
Michele Grubbs	PMSA
Thomas Jelenic	PMSA
Joe Lyou	CCA and SCAQMD Governing Board
Louis Dominguez	San Pedro Neighborhood Council
Steve Cadden	CRT
Jonathan Rosenthal	Saybrook Capital
<b>Los Angeles Port &amp; City Staff</b>	
Chris Cannon	Port of Los Angeles
Jana Sidley	Port of Los Angeles
Tim DeMoss	Port of Los Angeles
Lauren Faber O'Connor	City of LA, Mayors Office
Michael Samulon	City of LA, Mayors Office
David Reich	City of LA, Mayors Office
<b>Long Beach Port &amp; City Staff</b>	
Rick Cameron	Port of Long Beach
Heather Tomley	Port of Long Beach
Justin Ramirez	City of Long Beach, Mayor's Office
<b>Meeting Facilitation Staff</b>	
Erik Neandross	GNA
Lexi Wiley	GNA
Patrick Couch	GNA
<b>Guests</b>	
Peter Liang	LADWP
Damon Hannaman	SoCal Edison



## Attachment B

### *Meeting Agenda*

**10:30am – 11am** Arrive to LBCT and check in. **Please have a photo ID with you.**

Address: 201 S. Pico Ave, San Pedro, CA 90731

**11am – 12:50pm** Vessel boarding - OOCL Southampton

**12:50 pm – 1pm** Drive from LBCT to POLB Maintenance Facility

Address: 725 Harbor Plaza, Long Beach, CA 90802

**1pm – 3pm** Discussion of emission reduction strategies and opportunities.

Topics to include:

- Fleet turnover
- After-treatment
- LNG
- Bonnet
- Other

*Lunch will be provided.*