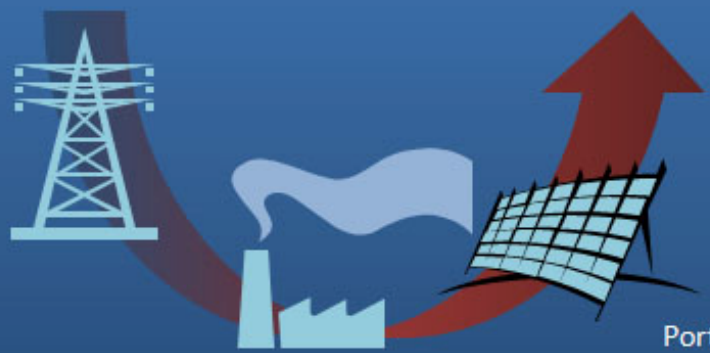


SCOPE 1
Port Direct

SCOPE 3
Port Tenants
Indirect

SCOPE 2
Port Indirect



Purchased Electricity for Port-Owned Buildings and Operations



Port-Owned Fleet Vehicles, Buildings



Ships, Trucks, Cargo Handling Equipment, Rail, Harbor Craft, Buildings, and Purchased Electricity

International Highlights - Background

- IMO MARPOL Annex VI
 - 2008 MEPC 57th Meeting Results (31 Mar to 4 Apr)
 - 3-Tier NOx Engine Standards for Diesel Engines on New Ships
 - Tier I - 17 g NOx/kW-hr (1 Jan 2000)
 - Tier II - 14.4 g NOx/kW-hr (1 Jan 2011)
 - Tier III - 3.4 g NOx/kW-hr (1 Jan 2016)
 - NOx Engine Standard for Existing Ships
 - 17.0 g NOx/kW-hr (Power >5 MW & 90 I Displacement) - Ships Built 1 Jan 1990 to 1 Jan 2000

International Highlights - Background

- IMO MARPOL Annex VI
 - Proposed Draft Amendments from MEPC 57 to Annex VI & NOx Technical Code to be Submitted to MEPC 58 (October 2008) for Adoption - **Unanimously Adopted**
 - Revisions Would Enter Into Force in 2010
 - Work on Greenhouse Gases Scheduled for 2009 Completion w/ Presentation of Paper at the Copenhagen Conference (Dec 2009)
 - Currently Developing a “Coherent & Comprehensive Future IMO Regulatory Framework on GHG Emissions from Ships”
- MARPOL Annex VI Has Been Ratified by 52 Countries Representing ~80% of the World Fleet's Gross Tonnage

Revised Annex VI - Impacts

- New Ship Engine Standards
 - By 2011 - New Ship Engines Will Emit ~22% Lower NO_x Than Pre-2000 Built Ships (Global Transits & At-Berth)
 - By 2016 - New Ship Engines Will Emit ~81% Lower NO_x Than Pre-2000 Built Ships (Global Transits & At-Berth)
 - Actual Impact on PHA Emissions Will Depend on How Fast the Cleaner Ships are Integrated Into Routes Servicing the Port
- Existing Ship Engine Standards
 - Ships Built Between 1990 & 2000 Will Have to Reduce NO_x From Their Diesel Engines by ~8%
 - Implemented on Next Major Engine Service
 - No Change for Ships Pre 1990

Revised Annex VI - Impacts

- Global Fuel Cap
 - 2012 - SO_x Probably No Major Reductions in Fuel Sulfur Content
 - 2020 - ~80% SO_x Reduction & ~75% PM Reduction Emissions During All Transits (Global) & At Berth
- EPA is Working With Canada & Mexico on the Feasibility of a North American ECA
 - After March 1, 2010 - ~63% SO_x Reduction & ~56% PM Reduction During Transit & At-Berth Within ECA
 - Starting 2015 - ~96% SO_x Reduction & ~83% PM Reduciton During Transit & At-Berth Within ECA
 - ECA Designation Allows Additional NO_x, PM, & SO_x Controls