

Shipping and Environment Sweden

Control of Vessel Emissions in Hong Kong

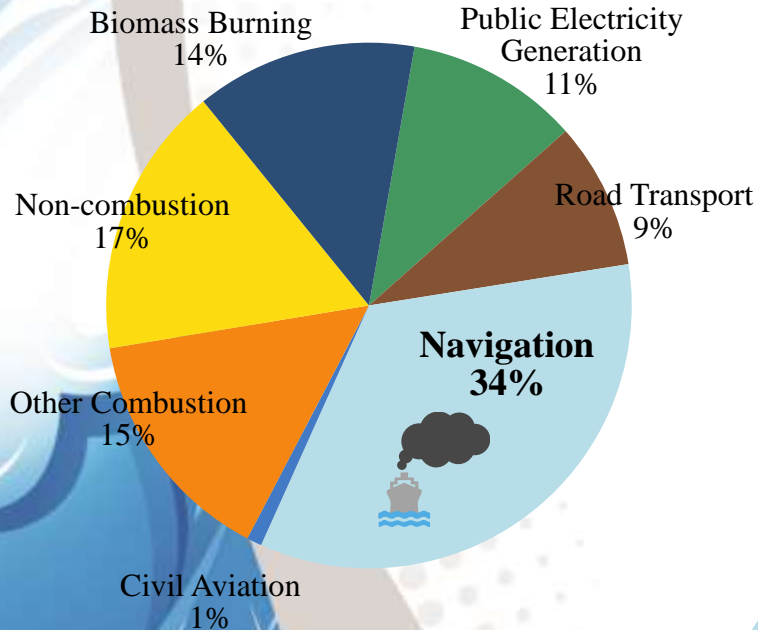
Peter Louie
Environmental Protection Department
Hong Kong SAR Government
21 September 2017



Source of Hong Kong Emissions

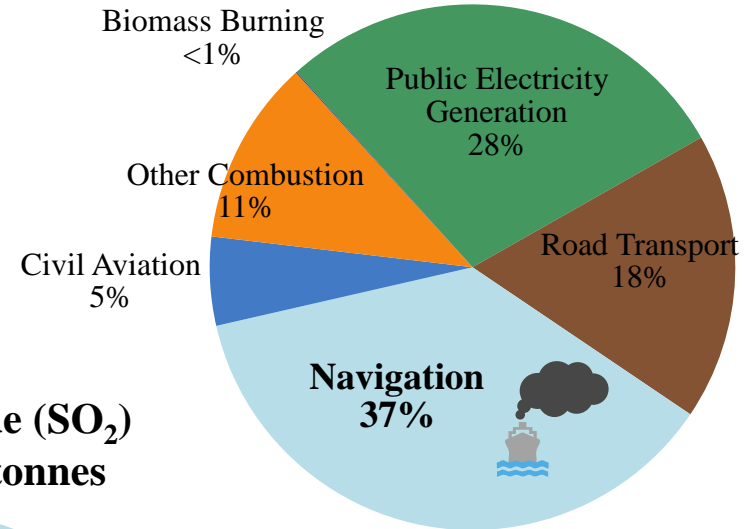
Respirable suspended particulates (RSP)

Total 5,430 tonnes



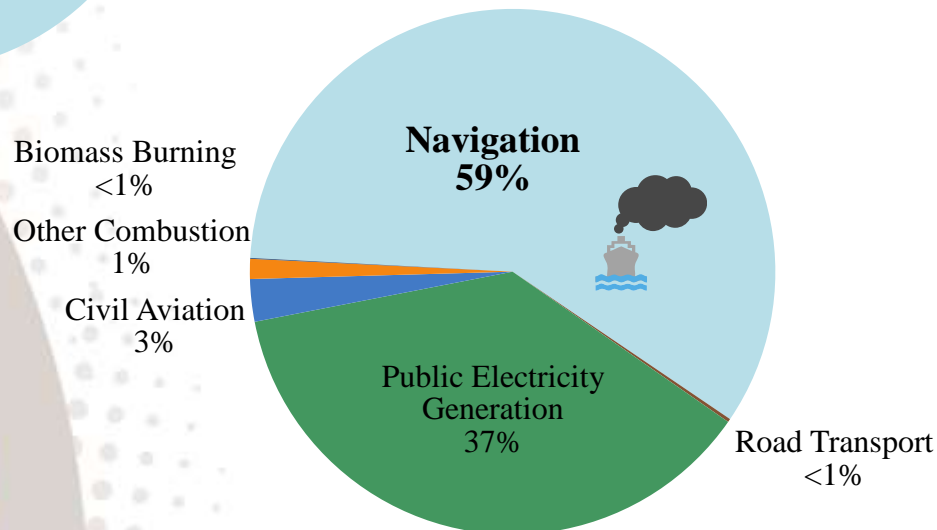
Nitrogen oxides (NO_x)

Total 91,700 tonnes



Sulphur dioxide (SO₂)

Total 19,540 tonnes



Benefits of Controlling Marine Emission



**Environmental
nuisance**



Air quality, health



**Territory
emission reduction**



RSP



SO₂



Green port



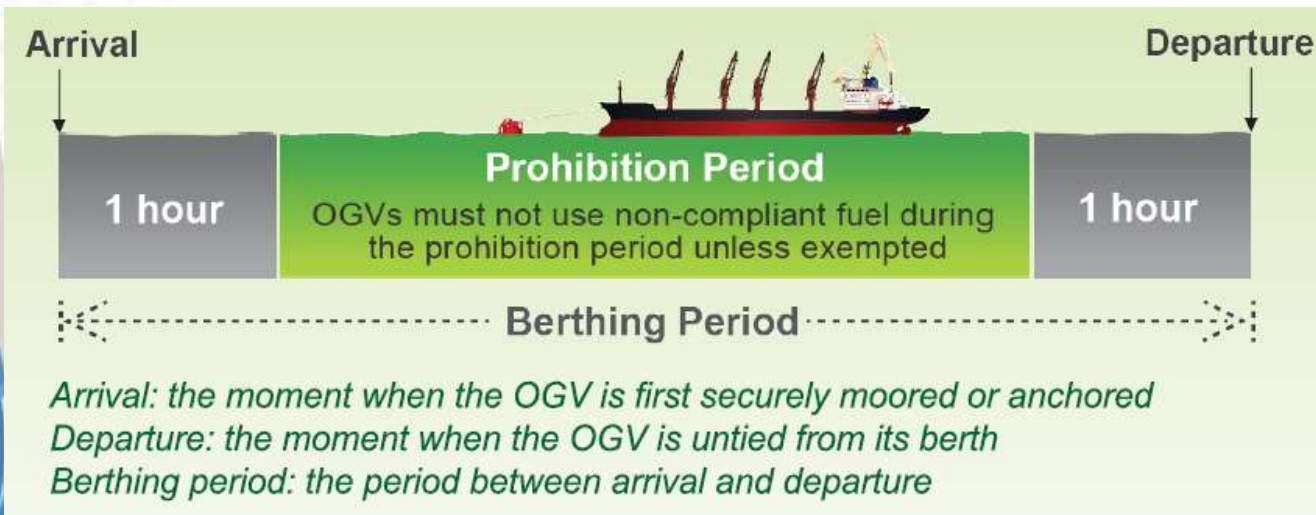
Marine Light Diesel Regulation

- Capped sulphur content of locally supplied marine light diesel at 0.05% since 1 April 2014



Fuel at Berth Regulation

- Mandate OGVs to use compliant fuel (e.g. low sulphur fuel (<0.5%)) while at berth since 1 July 2015
- The first port in Asia to mandate fuel switch at berth



- At downwind of Kwai Chung container Terminals
- Compare SO₂ levels from July 2015 to June 2016 with that from July 2014 to June 2015.



SO₂
50%

Port Facilities and Light Dues Incentive Scheme

Sept 2012
Extended till
31 Mar 2018

50% port
dues
concession



	Sept 2012 – June 2015	July 2015 – June 2017
No. of application	~9,300	~37,900
Revenue forgone (HK\$)	~47.6M	~173M



Regional Cooperation

- Maximize environmental and health benefits in the region
- Level-playing field for the shipping industry



Domestic Emission Control Areas in Mainland China

- In December 2015, the Ministry of Transport issued an Implementation Plan of setting up three Domestic Emission Control Areas (DECAs) in the Mainland

Bohai Rim ECA



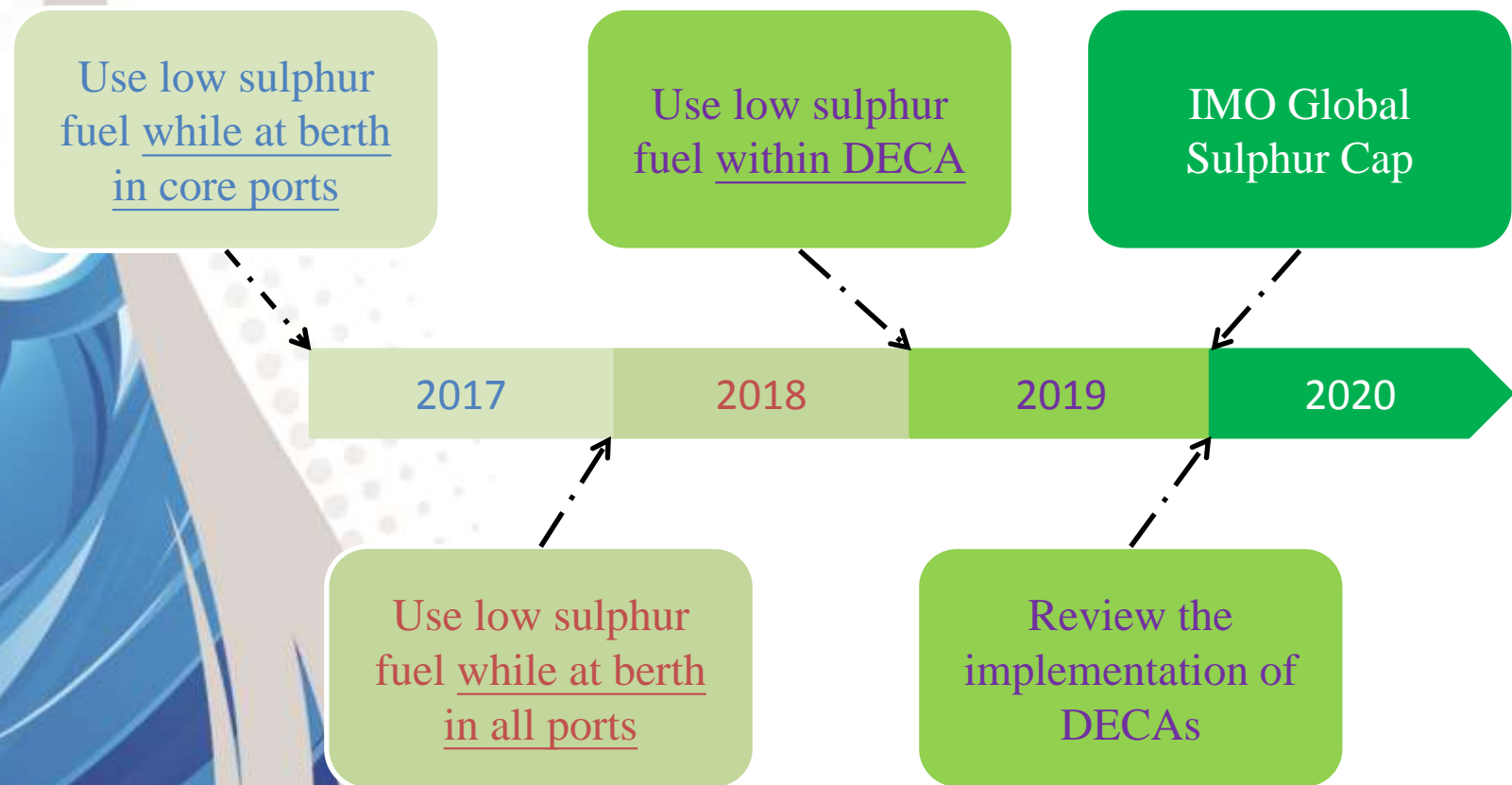
YRD ECA



PRD ECA



Implementation Plan on Domestic Emission Control Area (DECA)



New Control on Marine Emission

Prevailing Control

Mandate ocean-going vessels to use compliant fuel while at berth

Reduce
By 2020

SO ₂	RSP
6,340 tonnes	710 tonnes

New Control

Mandate all vessels to use compliant fuel within HK waters in January 2019

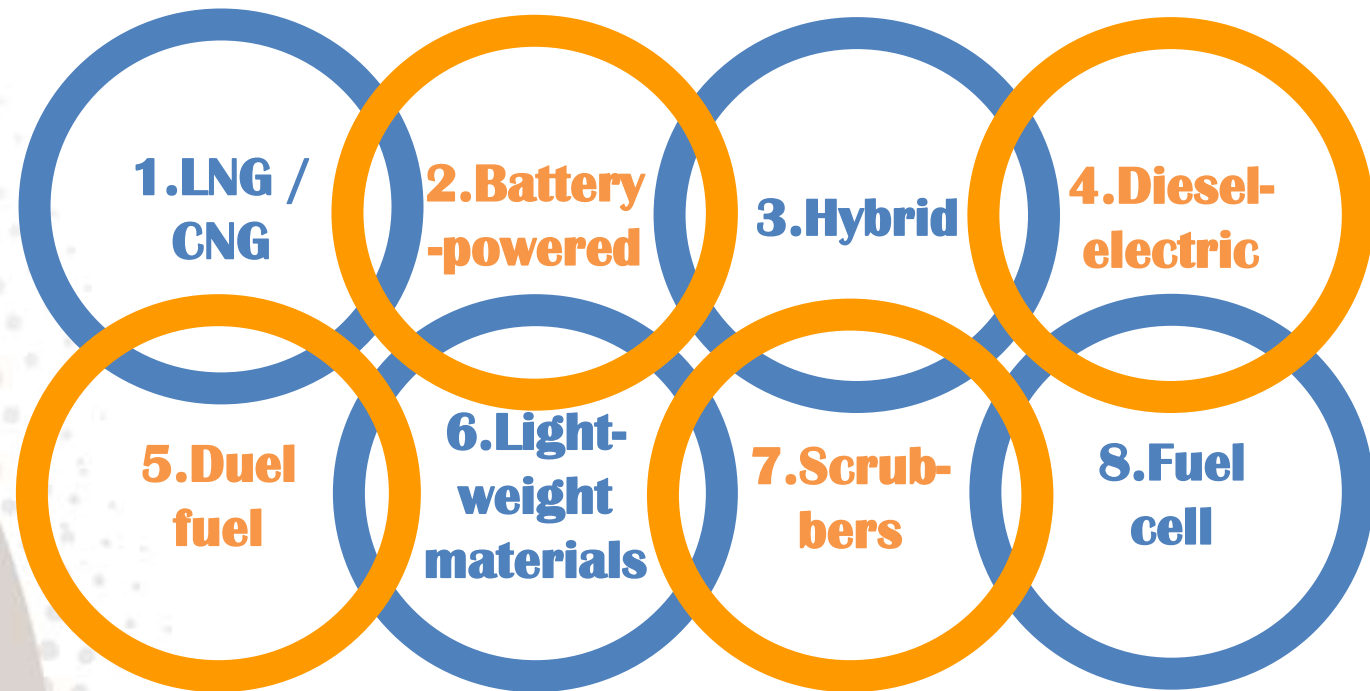
New Regulation in Hong Kong

- Consulted the marine trades and stakeholders in the first half of 2017
- Preparing a new regulation for implementing the new control 1 January 2019.



Future of Green Shipping

- To explore green marine technologies that could be technically feasible for local applications
- Consideration of operational profile





Thank you!



Environmental Protection Department

The Government of the Hong Kong

Special Administrative Region