

Clean Air Solutions in the Ports of Copenhagen and Malmö

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www.cmport.com

About Copenhagen Malmö Port (CMP)

- Port authority and terminal operator
- One port two countries
- Full service port. Large in Cruise, New Cars, Liquid and Dry bulk.
- Terminals in Copenhagen (Denmark) and Malmö (Sweden)
 - Cruise Terminal in Gotland, Sweden from 2018.
- Public and private shareholders
- ISO 9.001 and 14.001 certified
- ECOPORTS registered company
- Environmental policy CMP leased property within the port boundary.

CMP and the regulation ...

- Sulphur ECA regulation IMO decision in force 1st January 2015.
 - ✓ North Europe
 - South Europe date ? distortion of competition
 - SECA fuel bunkering (Statoil and other companies). 40.000 ships passing the port
- LNG EU-regulation
 - CorePorts 2025 deadline for ports to offer bunkering
 - CMP analysis not yet financially feasible

.. CMP and the regulation

- Cold Ironing (Shore power) EU regulation
 - CorePorts 2025 deadline for ports to offer shorepower if wanted and financially feasible
 - CMP analysis: cruise ships not enough ships to use it. Not financially feasible.
 - 70 individual vessels per season. 2-5 of these with possibility of cold ironing.
- Sewage (black and greywater) from ships (IMO draft decision)
 - In Baltic Sea area: 2019 new passenger ships and 2021 existing passenger ships
 - CMP new Cruise Terminals in Copenhagen state of the art:
 - Discharge through the quay sewage system.
 - Capacity: 300 m³ per hour per terminal
 - Replaces 75 truck mooves per day (three terminals).
 - Swedish Maritime Administration initiative for volountary earlier discharge. Incentive through Fairway Dues

CMP and the operation

Improved Air quality through City planning

- Relocation from City Centre due to noise and emission impact from ro-ro vessels.
 - 1,250 trucks per day
 - Reduce berthing distance and time
 - Reduce landside transport distance and time.
- Regular NOx monitoring in neighbour city (through passing trucks)
- NOx-calculation in Copenhagen Cruise vessels.

Industrial symbiosis

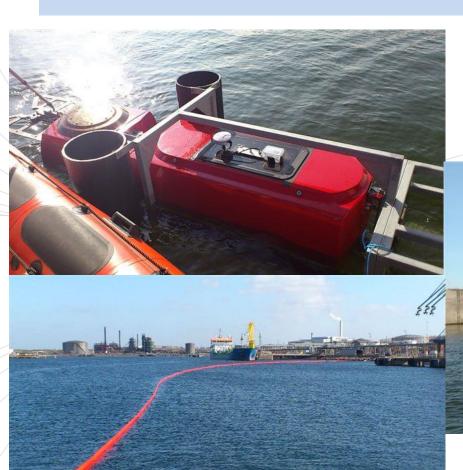
- Co-operation with the local industry and shipping lines.
- Energy efficiency and energy production in the port area.

Equipment

- Electrification of cranes and trucks
- Newest technology at purchase (ad-blue, catalyzers, eco driving, hybrid)



Aim at using electrified equipment and "green renewable energy"







Thank you for your attention!

