

Clean Air Solutions in the Ports of Copenhagen and Malmö

CEO Johan Röstin

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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 voluntary 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!

