Waste Management in Copenhagen Port – case study on new investment

Gert Nørgaard Manager Strategy & Planning

www.cmport.com





Business idea

"We create port, terminal and transport solutions across Europe."





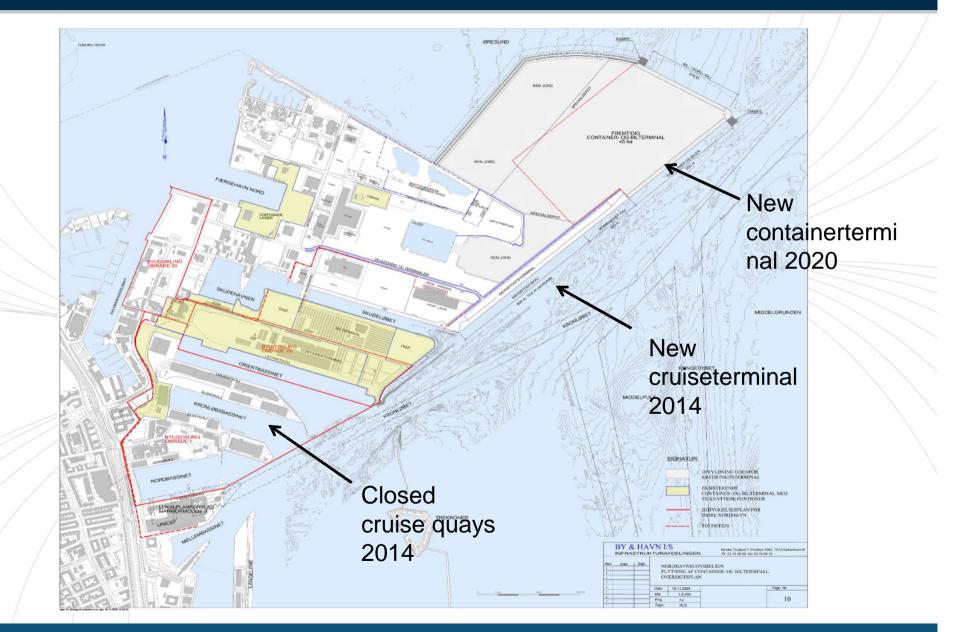
Vision



Bridging – Expanding – Leading









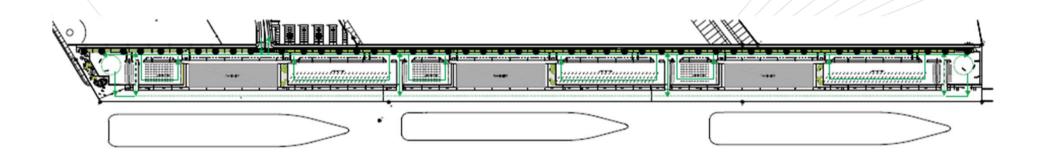


Copenhagen port areas





General data for the new cruise quay

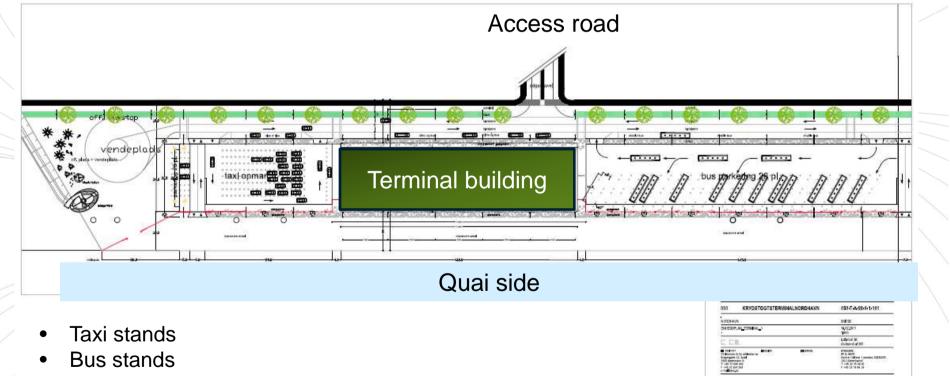


- Length 1,100 m
- Width 70 m, operation area 18 m
- 3 terminals
- Parking area for 200 cars right next to the terminals





3 similar terminals

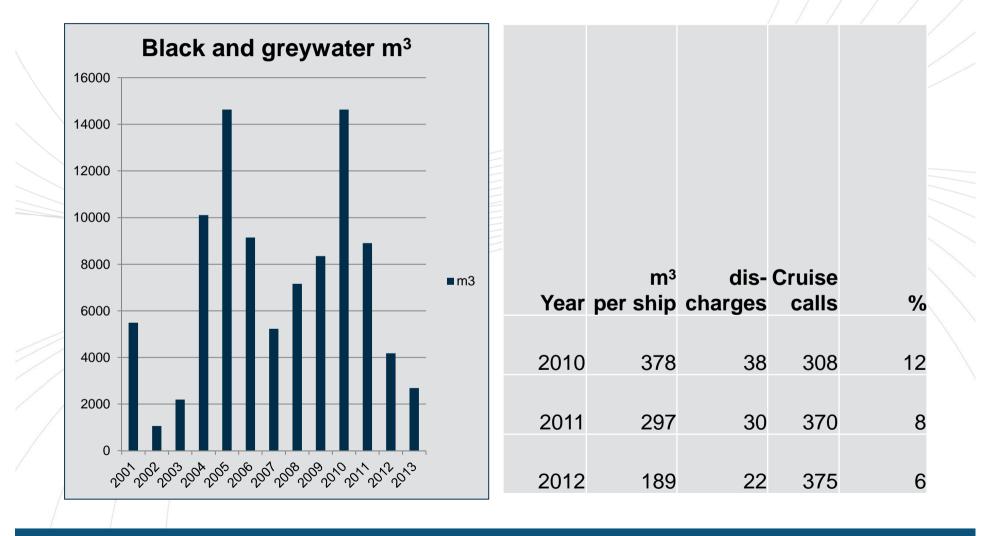


It's Logic

СПР

• Zone for limousines, shuttle buses and "kiss and ride"

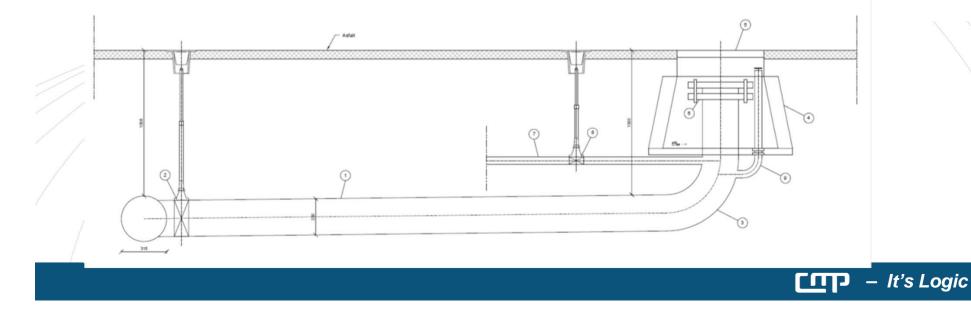
Waste Water reception in Port of Copenhagen



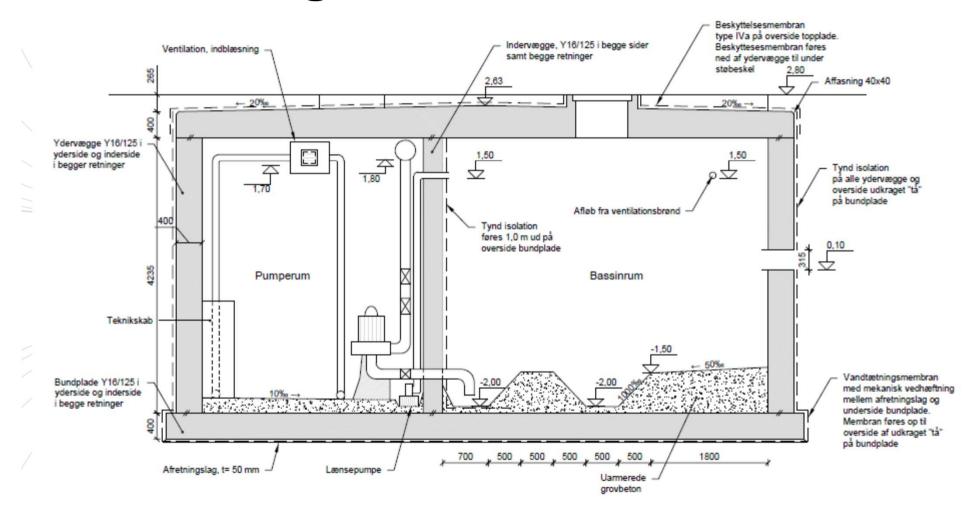
ITP – It's Logic

Wastewater pipes in the quay

- Receiving wastewater from 3 cruise ships simultaneously
- Capacity up to 900 cbm/hour (300 cbm/hour per ship)
- Connection point per. 60 m.



Collecting rainwater



□ – It's Logic

Pumps, valves and chemical addition





Pipes to municipal sewage plant





Smell removal



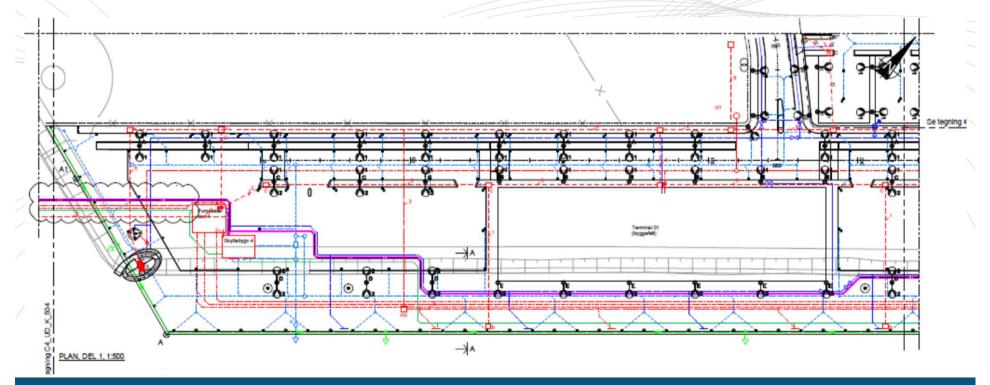
- Ferric chloride
- 6 m3

 removes smell from hydrogen sulphide



Prepared for land-based power supply

Infrastructure layout for power cables.



- It's Logic

New Cruise buildings 2014







Green roofs

Occupies much of the rainfall falling on the roof and thus relieve the sewer system

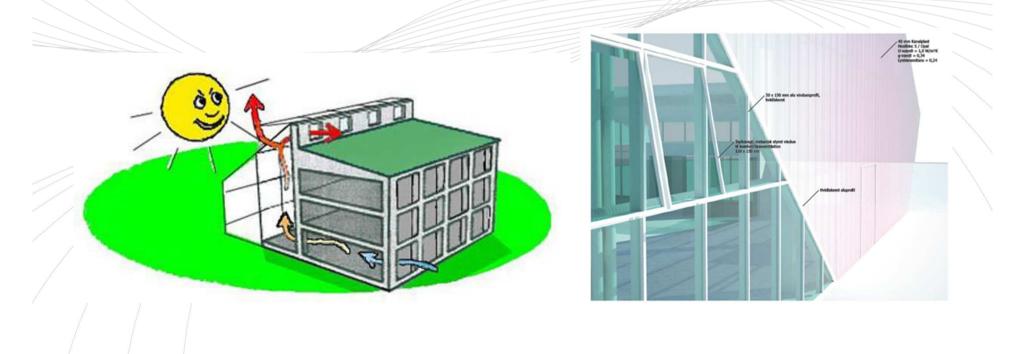






Sustainable indoor climate solution

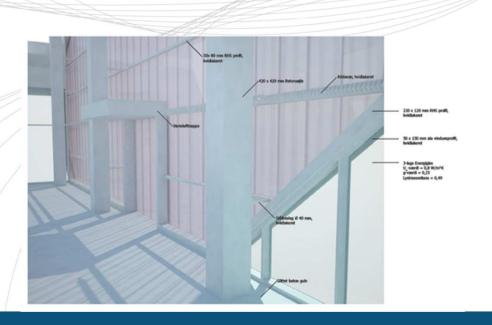
- Natural ventilation through controlled openings in facades and roofs
- Reduced construction and operating costs

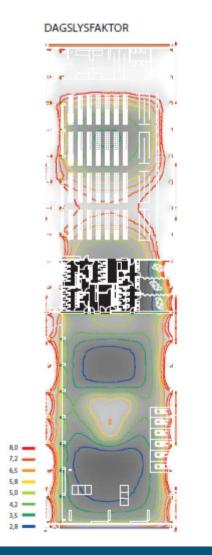




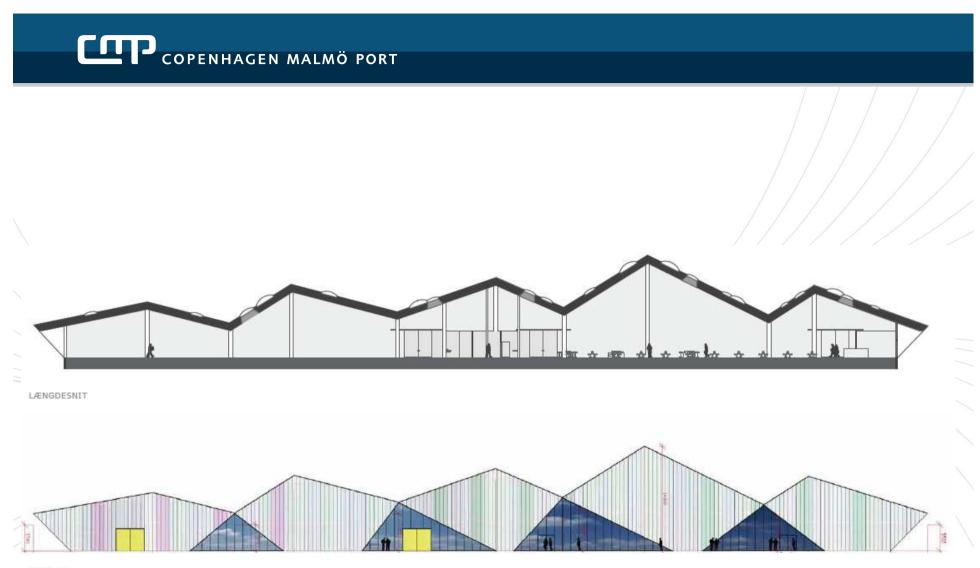
Incoming daylight

- Translucent building elements of polycarbonate
- Roof windows
- Electricity savings from natural daylight
- HEATBLOC surface prevents solar overheating









FACADE











Thank you for your attention!

