

Environment



Port Waste Management

Grontmij | Carl Bro assists ports and oil terminals in planning and implementation of efficient ship waste handling systems. These systems are designed to ensure that port and terminal procedures are in full compliance with national legislation and international requirements. As a result, seagoing vessels will have an incentive to deliver ship waste to reception facilities, reducing or eliminating the risks that such waste is dumped illegally into the sea.

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Our experiences have shown that efficient ship waste handling faces constraint in many ports around the world, because of the presence of many different stakeholders, who often have conflicting interests. The implementation of port waste management plans as a part of the international agreed regulatory framework has shown to be an effective tool in this respect. Illegal dumping of ship waste into the sea often occurs due to lack of control, inefficient waste handling procedures, lack of competitive cost recovery systems and inefficient information flow. These are essential parameters to be considered in order to create incentives for the ships to deliver the waste at the port of call.

The International Convention on Pollution from Ships (MARPOL 73/78) provides the key international framework on how pollution arising from shipping activities should be dealt with. On a regional level, the EU Directive EC/59/2000 on port reception facilities for ship-generated waste and cargo residues, - formulates an European standard, which requests all European Union ports to prepare port waste management plans.

Grontmij | Carl Bro has carried out an extensive number of projects in this field. This include feasibility studies, development of port waste management plans, traffic and waste analyses. Some of the projects have in specific focused on regional approaches for collection and handling of ship-generated waste.

Our Consulting Services related to the Port Waste Management Plan includes:

- Legal aspects
- Organisational aspects
- Effective ship waste handling procedures
- Institutional responsibilities
- Cost recovery system
- Waste registration procedures
- Communication procedures
- Control and enforcement procedures
- Ownership of reception facilities
- Technical installations and reception facilities
- Conceptual maintenance plan

Selected References - Port Waste Management Plans:

- 25 European Member States. European Port Reception Facilities for Ship Generated Waste and Cargo Residues, EMSA (2005)
- Completion Seminar. Marine Oil Spill Contingency Planning and Port Management of Ship-generated Waste in the Eastern Baltic Sea (2003)
- Port Waste Management Plan for Riga Port, Latvia (1998-2001).
- Port Waste Management Plan for St. Petersburg Port, Russia (1998-2002).
- Port Waste Management Plan for Klaipeda Port, Lithuania (1999-2000).
- Port Waste Management Plan for Szczecin Port, Poland (1999-2002).
- Port Waste Management Plan for Liepaja Port, Latvia (1999-2002).
- Preparation of Port Waste Management projects in three Thai ports and six Malaysia ports.

Other Selected References

- Venice Port, Italy, Traffic and Waste Analysis (2002).
- Technical Design for an Oily Water Treatment Plant in Liepaja Port, Latvia (2001).
- Assistance in Tendering Procedure for an Oily Water Treatment Plant in Liepaja Port, Latvia (2001).
- Regional Reception Facilities for Ports and Oil Terminals within the Arab Gulf (ROPME Sea Area), Bahrain, Kuwait, Oman, Qatar, Saudi-Arabia, United Arab Emirates, Iran and Iraq. Collection, Treatment, Transport and Financing. Feasibility Study 1997-99.
- Szczecin Harbour, Implementation of Processing Plant for Reception and Treatment of Ship Generated Oily Waste Water.
- Feasibility Study for Reception Facilities on the Danube River using River Rhine Regulations as a Framework, Austria (1999-2000).
- Feasibility Study on Reception Facilities in 6 Ports in Romania, Turkey and Bulgaria - Black Sea (1998-99).
- Electronic Database Regarding Reception Facilities in Danish Ports, Denmark (1998-99).
- Port Waste Reception Facilities in Eastern Baltic Sea Pre-investment Study, Estonia, Latvia, Lithuania, Russia (1995-98).
- Pre-Appraisal of Review & Updating of the National Oil Spill Contingency Plan and Oily Water Reception Facilities, Egypt (1993)

For further information please visit our website or contact:

Mr. Jens Lillebæk, tel.: +45 4348 6646 e-mail: jens.lillebaek@grontmij-carlbro.dk

Mr. Jens Peter N. Øhlenschläger, tel.: +45 4348 4460 e-mail: jens.peter.ohlenschlaeger@grontmij-carlbro.dk