

TRANSPORTATION AND ENVIRONMENT

Akzo Nobel in Stenungsund

Large volumes of raw materials and products are transported to and from Akzo Nobel's site in Stenungsund on a daily basis. We are therefore working with several projects to improve the transportation efficiency in order to decrease the environmental influence related to our business. Given that all transportation is handled by contractors the work involves a close collaboration with the transporters. In transportation planning consideration must be given to costs, customer requests and existing infrastructure which is balanced with environmental concerns.



The main part of the transportation work to and from the site in Stenungsund is carried out by boat, the remaining part by truck and train. The majority of the outgoing transportation from the site to Gothenburg is by truck, since it is the most feasible alternative today. We are engaged in the National Rail Administration's project to make railway transportation possible between Stenungsund and Gothenburg within a ten year period.

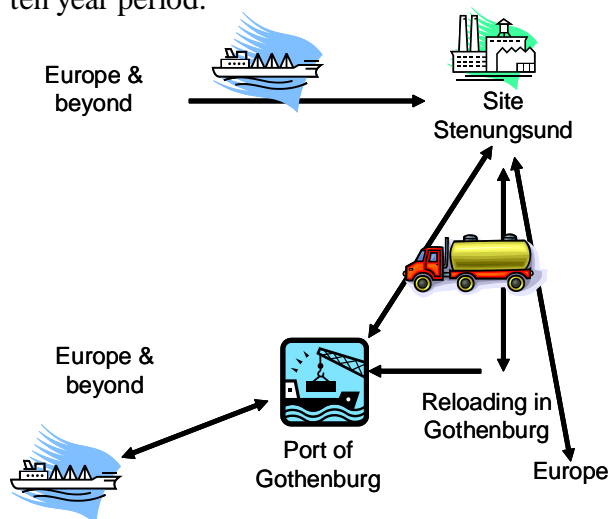


Illustration of the transportation to and from the site

In order to evaluate the environmental impacts and the effect of carried out improvements, a recurrent report "Transport and the Environment, Site Stenungsund" is published. The report contains information on the

transportation work and its environmental impacts all from a global, national, regional and local perspective.

The two Business Units at the site in Stenungsund, Akzo Nobel Surfactants and Akzo Nobel Functional Chemicals, approach the transportation issue in somewhat different manners. However, the overall aim is the same, to try to attain eco-efficient transportation.

Akzo Nobel Functional Chemicals requires of the transporters to have a certified ISO 9000 quality system and ISO 14 001 environmental system, or corresponding systems. Carriers who have proved both good performance and collaboration in the past are preferred.

Akzo Nobel Surfactants' main method of addressing transportation is through approval and evaluation. The hauliers must fill out approval documents to secure that they are operating an effective management system that insures a good health, safety and environmental performance. The main transporters are evaluated on an annual basis within six areas, Approval, Environmental index, Costs/innovation, Deviation, Complaints and Comments from the site. Common goals of improvements are also set up to be evaluated together.

Examples of our work to decrease the environmental impact of transportation

To reduce the environmental impact of transportation different projects have been put into practice. The following examples demonstrate some of our successful work.

Reporting of transportation data

All major transporters of Akzo Nobel Surfactants are required to report data like CO₂-emissions, energy consumption and loading factors of trucks and boats.



Increasing the loading factor

We are continuously working with different methods to increase the loading factor of the transportation with clear results.



Synchronization of transportation

Coordination of the transportation within the site and with other industries in Stenungsund has reduced the need of trucks to and from the site.



A tool to compare different means of transportation

A tool has been developed specially for Site Stenungsund that allows a fast comparison of the environmental impacts of different means of transportation and destinations.



Multi modal transportation

There are continuous efforts to increase the use of multi modal transportation, where different means of transportation are used to transport goods from A to B. Multi modal transportation is a good environmental alternative, as the possibility to use train or boat the whole distance is not always available.



Akzo Nobel Site Stenungsund

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