

Environmental and Social Data Sheet

Overview

Project Name: ALFA LAVAL FLUID DYNAMICS RDI II
 Project Number: 2012-0605
 Country: SWEDEN
 Project Description: RDI investments in separation, heat transfer and fluid technologies for 2013-2016.

EIA required: no

Project included in Carbon Footprint Exercise¹: no

(details for projects included are provided in section: "EIB Carbon Footprint Exercise")

Summary of Environmental and Social Assessment, including key issues and overall conclusion and recommendation

The project concerns investments in research and development that will be carried out in existing facilities without changing their already authorised scope. An Environmental Impact Assessment (EIA) is therefore not required by EIA Directive 2011/92/EU. Being a pure R&D project, it does not per se have any impact on the environment; in addition the resulting products are expected to bring about positive results in terms of energy efficiency in the systems and the final products that will be deployed. Overall, the project is considered as environmentally acceptable.

Environmental and Social Assessment

Environmental Assessment

The nature of the heat exchange applications i.e. the transformation and transfer of the input primary energy to an output energy, renders the functional efficiency directly analogous to the energetic one, so improved performance has beneficial effects both in terms of productivity and in terms of energy savings.

Alfa Laval's core competences within heat transfer, separation, and fluid handling technologies are utilised in a large number of environmental protection processes such as the cleaning of wastewater and reduction of sludge volumes, the recycling of effluents, the desalination of sea water, the cleaning of ballast water on-board ships, the treatment of bilge water on-board ships, the clean air applications through reduction of CO₂ emissions, the reduction of sulphur and NO_x emissions, the cleaning of crankcase gases from diesel engines and also energy conservation, improved heat recovery, efficient domestic heating, and other energy-related applications.

Other Environmental and Social Aspects

The company has an environmental strategy that covers both manufacturing processes and eco-design of products, supported by Life Cycle Assessments on the products. An Environmental Management System (EMS) is implemented in all sites with significant environmental impacts or risks. The company has identified 23 manufacturing sites that, combined, accounted for over 85% of the manufacturing energy consumption in 2011, and all of these sites are certified for ISO14001. The company is following the environmental impact of all sites and has set the following goals for the period 2011-2015:

¹ Only projects that meet the scope of the Pilot Exercise, as defined in the EIB draft Carbon Footprint Methodologies, are included, provided estimated emissions exceed the methodology thresholds: above 100 000 tonnes CO₂e/year absolute (gross) or 20 000 tonnes CO₂e/year relative (net) – both increases and savings.

- Improve energy efficiency by 12%;
- Reduce water consumption by 20%;
- Reduce restricted chemicals usage by 50%;
- Reduce greenhouse gases from freight transportation by 12 %.

In addition environmental factors have been introduced in the supply chain management and in 2012; approximately 69% of purchased value was from suppliers that had ISO14001 certification (or equivalent). The target is that 80% of suppliers will be certified by the end of 2015.

According to an independent company that specializes in the assessment of sustainability and governance aspects of corporations, Alfa Laval's performance in the environmental domain ranks above the average for the sector.