

Environmental and Social Data Sheet

Overview

Project Name:	ARCELIK R&D
Project Number:	2012 0332
Country:	TURKEY
Project Description:	The project concerns a selection of R&D activities aimed at improving performance and broadening the promoter's products portfolio of in the field of home appliances. The activities, which will be carried out over the period 2012-2015 in Turkey, cover the areas of (i) energy efficiency, (ii) advanced material technologies, (iii) innovative technologies and product design, (iv) smart home and connectivity and (v) clean manufacturing.
EIA required:	NO
Project included in Carbon Footprint Exercise ¹ :	NO
(Details are provided in section: "Carbon Footprint")	

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 already used for similar activities, and therefore does not require an EIA according to the Directive 2011/92/EU if located in the EU.

The R&D activities will contribute to develop better performing and more environmentally friendly appliances, with improved energy efficiency, with reduced noise levels during operation, higher end-of-life recyclability and that consumes fewer resources such as water during operation and raw material in the manufacturing process.

The promoter observes high environmental standards. Arçelik production plants have ISO 9001 and ISO 14001 certifications. Arçelik performs its operations in line with its "Total Quality" principle, simultaneously integrating all its Quality Management, Environmental Management and Occupational Health and Safety Management Systems.

Environmental and Social Assessment

Environmental Assessment

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EIB Carbon Footprint Exercise

- The EIB draft Carbon Footprint Methodologies includes only emissions from Investment Loans, and large allocations under Framework Loans, above the

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 tons CO₂e/year absolute (gross) or 20,000 tons CO₂e/year relative (net) – both increases and savings.

methodology thresholds. The project refers to R&D activities therefore the exercise has not been carried out.

- The promoter has calculated the Greenhouse Gas (GHG) emissions produced by its facilities by using IPCC-2006 and in accordance with ISO 14064-1 GHG Standard; Arçelik's GHG values have been verified by an independent body. Since the promoter has different product ranges, the emissions have been standardised to the unit of revenues. The promoter is undertaking a plan to reduce by 15% its carbon footprint per unit of revenue (eCO₂ metric tonnes / M TL) in the period 2010 – 2015.

Other Environmental and Social Aspects

- Arçelik production plants have ISO 9001 and ISO 14001 certifications. Arçelik performs its operations in line with its "Total Quality" principle, simultaneously integrating all its Quality Management, Environmental Management and Occupational Health and Safety Management Systems.
- According to energy audits carried out by (i) Republic of Turkey Ministry of Energy, (ii) Natural Resources Directorate General of Renewable Energy and (iii) a TÜV certificated energy efficiency consultancy firm, in 2010 all domestic Arçelik production plants received "Gold Certificate"; during 2011 4 plants (Eskisehir Refrigerator and Compressor Plant, Cayirova Washing Machine Plant, Bolu Cooking Appliances) reached to "Platinum Certificate" level.
- The promoter has on-going investment to setup a recycling plant to comply with the WEEE regulation (published in May 22nd, 2012 in Turkey);
- The promoter has on-going investments to comply with REACH, RoHS, PAH, Food Contact etc. Regulations (RoHS published in May 30th, 2008 and REACH is in planning stage in Turkey).