Luxembourg, 17 November 2022

Environmental and Social Data Sheet

Overview

Project Name:	AUTOMOTIVE ELECTRIC AND ADVANCED MOBILITY RDI
Project Number:	2021-0566
Country:	Germany, Romania, France
Project Description:	The project concerns the promoter's investments (2022-25) in R&D for innovative powertrain technologies for application in battery electric vehicles and plug-in hybrid electric vehicles. It specifically includes investments for technologies in the field of high-voltage integrated power electronics systems, high-voltage battery management systems, electric motor systems, high-voltage inverters and high-voltage DC-DC converters.

EIA required:	no
Project included in Carbon Footprint Exercise[1]:	no

Environmental and Social Assessment

Environmental Assessment

The project consists of investments in Research, Development and Innovation (RDI) in the field of innovative component technologies for battery electric and plug-in hybrid electric vehicle applications. It will contribute to improve electric vehicle performance and enhance overall energy efficiency while supporting the promoter's strategy of developing capability for future mobility solutions. The project focuses on technologies in the fields of High Voltage Box, Battery Management System, High Voltage Inverter and Integrated electric drive systems. Expected results of the project portfolio include increased product efficiency and safety, reduced emissions and the development scalable technology platforms and a broad range of and innovative solutions targeting electric vehicle applications.

The project concerns operational Research and Development activities that are not listed in the Annex 1 or 2 of the EIA Directive 2014/52/EU, amending Directive 2011/92/EU, and that will be carried out in existing facilities without changing their already authorised scope.

The project's R&D activities represent a central part of the promoter's operations and will be managed in the existing organisational structure and carried out by the promoter's R&D staff in various European countries. The operating procedures in place are in line with stringent automotive industry standards and the project's environmental sustainability is expected to be governed by said procedures.

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

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Other Environmental and Social Aspects

In line with automotive industry best practices, the promoter has a strong safety culture and good operating and HSE (Health, Safety and Environment) procedures in place. As of December 2021, the promoter had over 90% of employees covered by management system certifications for health and occupational safety (ISO 45001). Also over 90% of employees were covered by environmental protection management systems (ISO14001) and over 80% by certifications for energy management systems (ISO 50001).

Conclusions and Recommendations

The project's activities are not covered under the EIA Directive 2014/52/EU amending Directive 2011/92/EU. The project activities per se do not have any direct impact on the environment; however, the project R&D activities contribute to further develop innovative component technologies for application in electric vehicles. It will contribute to improve electric vehicle performance, enhance their overall energy efficiency, reduce their manufacturing cost and then final price, and therefore lower the barriers to the adoption of such vehicles in the market. It will therefore contribute to reducing fuel consumption and CO2 emissions of the automotive fleet and subsequently to increased environmental sustainability in Europe.

The project will also contribute to contribute to further knowledge creation and diffusion, through the promoter's R&D collaborations with universities and industrial partners, and to relevant upskilling and retraining of the promoter's workforce to operate in the evolving technology and market context. The project is therefore acceptable for EIB financing in E&S terms.