

## Environmental and Social Data Sheet

### Overview

Project Name:	<b>BOYSEN R&amp;D</b>
Project Number:	<b>2012-0486</b>
Country:	<b>GERMANY</b>
Project Description:	The project concerns the promoter's R&D activities, including additional R&D infrastructure, for the period 2013-2015 focusing on technology for exhaust pollutant emissions and noise reduction as well as technology to convert exhaust heat into energy
EIA required:	NO
Project included in Carbon Footprint Exercise <sup>1</sup> :	NO

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

The project consists of two parts: (i) investments in research and development for exhaust after-treatment systems for passenger cars, heavy commercial vehicles and non-road applications that will be carried out in existing facilities without changing their already authorised scope, and that are not expected to have any additional impact on the environment and (ii) the construction of a new innovation centre that includes testing facilities for Exhaust After-treatment Systems and more specifically one new test bench for engines which would fall under the Annex II of the EIA directive (2011/92/EU). The competent authorities confirmed that an EIA will however not be required for the project. The delivery of a copy of the building permit related to the construction of the new innovation centre will be specified as a disbursement condition in the finance contract.

The project will contribute to significant pollutant and CO<sub>2</sub> emission reduction throughout the range of the developed products and will accordingly positively contribute to reduce the environmental impact of automotive vehicles while the world automotive fleet is continuously growing. The project is therefore considered acceptable.

### Environmental and Social Assessment

#### Environmental Assessment

The project targets the development of new exhausts technologies and after-treatment systems that will help automotive vehicles complying or even exceeding the latest relevant EU legislation setting the standards for pollutant emissions applicable to (i) passenger cars and light commercial vehicles (regulations 715/2007 and 692/2008 concerning Euro 5 & Euro 6) and (ii) heavy commercial vehicles (regulations 595/2009 and 582/2011 concerning Euro VI). The project also includes innovative developments focusing on heat recovery that will allow the exhaust system to contribute to significant CO<sub>2</sub> emission reductions and consequently help new vehicles complying or exceeding the target that has been set in the EU regulations 443/2009 for passenger cars and 551/2011 for light commercial vehicles.

Boysen has historically demonstrated rather high awareness regarding the potential impact of its industrial activities on the environment. The design of the new innovation centre integrates specific facilities to reduce the energy foot print of the building (solar panels; specialised systems to recover energy from vehicle testing roller bands - recovery of braking energy - and from the heat produced by the ventilation system and the air compressors).

<sup>1</sup> 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 CO<sub>2</sub>e/year absolute (gross) or 20,000 tons CO<sub>2</sub>e/year relative (net) – both increases and savings.