

Luxembourg, 20 June 2024

## Environmental and Social Data Sheet

### Overview

Project Name:	BOSCH SEMICONDUCTOR PRODUCTION BOOST
Project Number:	2023-0021
Country:	GERMANY
Project Description:	The project relates to the promoter's investments in the expansion of the manufacturing capacity for the next generation of the promoter's semiconductor technologies, components, subsystems and systems with a focus on consumer electronics and electrical mobility. The project is being implemented at two of the promoter's locations in Germany.
EIA required:	Yes.

Project included in Carbon Footprint Exercise<sup>1</sup>: Yes

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

### Environmental and Social Assessment

#### Environmental Assessment

The expansion of the existing industrial site in Reutlingen with the project component related to the construction of a new semiconductor manufacturing building (the so-called Rt141b) falls under the Industrial Emission Directive (IED) as part of the German Bundesimmissionsschutzgesetz (BImSchG). The competent authority gave the approval to the expansion on 26 June 2023 <sup>2</sup>. As stated by the competent authority, the Rt141b subproject does not fall under the UVPG, the transposition of the EIA Directive 2014/52/EU amending the Directive 2011/92/EU.

According to the promoter, the other investments included in the EIB project performed in Reutlingen neither fall under the IED nor the UVPG requirements.

For the project components linked to the Dresden site, the approval process of the extension is still ongoing. These components fall under the EIA Directive 2014/52/EU amending the Directive 2011/92/EU and have been screened in by the competent authority. Prior to first disbursement of the proportional part of the investments related to the Dresden site, the promoter will provide to the Bank the conclusions of the EIA process. The promoter will also undertake to provide the Bank the operating permits under the IED once received.

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

<sup>2</sup> <https://rp.baden-wuerttemberg.de/rpt/service/bekanntmachung/immissionsschutz/robert-bosch-gmbh>



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Semiconductors are the basic components for the digitalisation of all sectors of the economy. They are therefore essential to enable the deployment of low carbon and decarbonisation scenarios leading to significant sustainability benefits across the whole economy and fulfil the Paris Alignment criteria as set out in the EIB's CBR (Climate Bank Roadmap).

The site in Reutlingen is located in an area classified as high flooding risk. The operating permit under the IED requires the promoter to implement adaptation measures. For the other risks and site, the promoter evaluates the climate change risks as part of its risks management policy. The overall risk is set as medium.

### **EIB Carbon Footprint Exercise**

The estimated annual absolute CO<sub>2</sub> emissions of the project in a standard year of operation amount to 45.1 kt CO<sub>2</sub> eq. The two main contributors to the CO<sub>2</sub> emissions are the use of perfluorinated compounds (PFCs) in the manufacturing of the semiconductors and the use of gas and electricity for the operation and cooling/heating of the manufacturing equipment. The estimated annual relative CO<sub>2</sub> emissions amount to 0 as the promoter will make use of the most advanced equipment, abatement systems and energy efficiency tools. For the annual accounting purposes of the EIB Carbon Footprint, the project emissions will be prorated according to the EIB lending amount signed in that year, as a proportion of project cost.

### **EIB Paris Alignment for Counterparties (PATH) Framework**

The counterparty is in scope and screened out for the PATH framework, as its activities are not included in the list of EIB sub-sectors and segments in high emitting sectors and for high vulnerability.

### **Public Consultation and Stakeholder Engagement**

The project component falling under the BImSchG was published on the Official Journal of the City of Reutlingen and in one local newspaper on 21 October 2022. The public consultation process lasted from 22 October 2022 until 21 November 2022; no public feedback was recorded.

### **Other Environmental and Social Aspects**

Both manufacturing sites are certified according to occupational health and safety management system (ISO 45001), environmental management system (ISO 14001) and energy management system (ISO 50001).

The discharge of gaseous emissions and wastewater takes place via appropriate pre-treatment systems. The exhaust air treatment is carried out, among other things, by burner-scrubber systems or cooling traps for the separation of air-foreign substances. In-house facilities for wastewater treatment are connected upstream of the public sewage treatment plant

With the capacity expansion foreseen under the project, the manufacturing site in Dresden will fall under the Seveso III directive (EC 2012/18/EU) as an upper tier establishment.

The promoter has summarized the focal points of its sustainability management in the "New Dimensions – Sustainability 2025" target vision. It describes six topic areas that set the framework for their activities in the coming years related to water consumption, circular economy, diversity, human rights, health and climate action.



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The products to be manufactured by the project will support the improved energy efficiency of the new developed technologies and devices (the so-called “greening of”), as well as the availability of such, more powerful, solutions will allow for the development of applications aiming at CO<sub>2</sub> emission reduction, energy efficiency, etc., such as electric vehicles (the so-called “greening by”).

## **Conclusions and Recommendations**

The permit approval process for the expansion of the project related manufacturing facilities has been concluded for one site. For the second site, the promoter will undertake to provide the approval to the Bank. The products to be manufactured by the project will support the improved energy efficiency of new technologies and devices.

Overall, the project is eligible for EIB financing in environmental and social terms.