

Environmental and Social Data Sheet

Overview

Project Name:	LED LAMPS RDI
Project Number:	2017-0355
Country:	GERMANY
Project Description:	The programme concerns the RDI activities carried out in the field of lamps and luminaires based on Light Emitting Diodes (LED) mainly for the mass market. The key focus of the research is on a wider application of the LED technology, further cost reductions and the increased usability of such products for the replacement of existing less efficient traditional lamps as well as the development of new luminaires and innovative lighting solutions for smart applications.
EIA required:	No
Project included in Carbon Footprint Exercise ¹ :	No
(details for projects included are provided in section: "EIB Carbon Footprint Exercise")	

Environmental and Social Assessment

Environmental Assessment

The planned R&D activities of the promoter concern various different products around the LED technology, which is an enabler of significant energy savings for the lighting industry. Analyst studies estimate that the replacement of traditional (thermal) lamps through LED will allow for savings of 60%. Due to the still low penetration of LED lighting (about 6% in major markets), the replacement of old lamps with the promoter's new products will have a high savings potential.

Moreover, a major part of the planned R&D sub-projects aim at further lowering the energy consumption of today's existing LED products. Through this the efficiency of new LED products will be further increased compared to the current standards.

The Clean Energy Ministerial (CEM), which is a partnership of the world's key economies working together to accelerate the global clean energy transition, has launched over the years various different initiatives in the field of energy demand, energy supply, energy systems and integration as well as crosscutting support. These initiatives work to achieve three key goals: improve energy efficiency, enhance clean energy supply, and expand clean energy access. In May 2016, the Global Lighting Challenge (GLC) was introduced during the 6th Clean Energy Ministerial (CEM6) with 13 CEM member countries and the European Commission providing endorsements.

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.

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A key target of the GLC is to deploy 10 bn high efficiency light bulbs by 2023. Ledvance has committed to contribute 25% to this overall target in the coming years.

Sustainability is also important for the promoter; it has recently signed up to UN Global Compact and will align its CSR activities accordingly in future. In addition, the company, which is also operating different manufacturing sites, has several relevant ISO certifications such as ISO 14001 (environmental management), ISO 50001 (energy management) and OHSAS 18001 (occupational health and safety management).

Conclusions and Recommendations

The project activities do not fall under Annexes I and II of the EU Directive 2014/52/EU amending the EIA Directive 2011/92/EU, and are therefore not subject to mandatory Environmental Impact Assessments.

Moreover, the R&D activity is mainly focusing on the LED technology, which is supporting in general lower energy consumptions in lighting products. Furthermore significant parts of the R&D programme aim at a continuous reduction of the already low energy consumption levels.

Considering the above, the project is acceptable for Bank financing.