

**Public**

**Environmental and Social Data Sheet**

**Overview**

Project Name: BUCHAREST S5 ENERGY EFFICIENCY  
 Project Number: 2016-0768  
 Country: Romania  
 Project Description: The project consists of energy efficiency investments in residential buildings in Bucharest S5. In total 99 residential buildings located in Bucharest Sector 5 will be refurbished.

EIA required: no  
 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 project aims at improving the thermal insulation of 99 residential buildings in Bucharest. Thanks to the project, energy consumption for heating purposes will be reduced by around 40%. As a result, it will also reduce air pollution related to the production of heat (SO<sub>2</sub>, NO<sub>x</sub> and particulates) and help mitigate climate change by avoiding associated CO<sub>2</sub> emissions.

Temporary nuisance due to construction (dust, noise, traffic disruption) is mitigated through appropriate site organisation and construction management. Due to the nature of the investment, no significant negative environmental impacts are expected.

Given the scale, location and nature of the sub-projects in built-up urban areas, an EIA as defined under the EIA Directive 2014/52/EU amending 2011/92/EU is not required. The projects should comply with urban regulations and the works are subject to building permits being issued by the local authorities. In addition, none of the 99 buildings is listed as a cultural heritage monument and none of them is located in the designated protected part of the city.

This is the first similar project in Sector 5 of Bucharest, but judging from the experience of previous similar operations ("Thermal rehabilitation of residential buildings" in Sectors 1, 2, 4 and 6) in other sectors of the city, minor negative environmental impacts occurred only during works, which were properly captured and addressed by the construction companies.

<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.

Luxembourg, 13.11.2018

## **EIB Carbon Footprint Exercise**

The estimated emission savings are around 14,710 t of CO<sub>2</sub> equivalent per year. This emission reduction has been calculated based on the expected annual thermal energy savings after the implementation of the project. 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.

### **Social Assessment, where applicable**

No special social risks are anticipated for this project. On the contrary, the project is expected to bring considerable positive social benefits related to the gains in energy efficiency and associated decrease in the energy bill.

## **Conclusions and Recommendations**

Considering the type and size of the project the capacity of the promoter is deemed sufficient. Notwithstanding, the promoter will implement and maintain a quality management system, which will also ensure adherence with the environmental aspects of the project as per the relevant legislation, which aims at guaranteeing construction quality. The loan will be conditional to ex-post verification by independent experts of the achieved savings. Furthermore, the promoter will ensure that after refurbishment energy performance certificates will be issued for all buildings by independent accredited experts, according to the National legislation implementing the Energy Performance of Buildings Directive (2010/31/EU). In addition, the energy savings will be compiled and presented in a report to the Bank on an annual basis.

Based on the above, this operation is considered acceptable to the Bank from an environmental and social point of view.