



European Investment Bank (EIB)

Luxembourg, 3 December 2018

## Environmental and Social Completion Sheet (ESCS)

### Overview

Project Name:	Academisch Medisch Centrum Amsterdam
Project Number:	2011-0037
Country:	Netherlands
Project Description:	Refurbishment and improvement of the University Hospital in Amsterdam (AMC) under the investment programme 2009 to 2015

### Summary of Environmental and Social Assessment at Completion

#### **EIB notes the following key Environmental and Social outcomes at Project Completion.**

The project needs to be split up into i) the refurbishment, modernisation and extension of an existing hospital and ii) the replacement and upgrading of the installations of the hospital's existing power plan.

In respect to the refurbishment, modernization and extension of the hospital, the project covered works within or close to the existing facilities and no significant environmental or social issues were noted. Overall the creation of new state-of-the-art facilities improved hygiene and safety conditions and allowed the Promoter to apply the most stringent statutory and technical conditions.

In respect to the second component, the hospital's existing power has been upgraded with a new combined heat and power plant (CHP). Under normal circumstances this plant is regulated according to the thermal demand while in case of a power cut, the plant functions as the emergency power supply. A main component of the project was the replacement of the existing devices (efficiency 55%) running on heavy oil with ultra efficient engines running on natural gas (efficiency 82%). To provide sufficient cold water for the cooling, the existing chillers have been replaced with a technology using the cold water stored in a nearby artificial lake. Due to the new technologies, the overall reduction of energy will be in the range of about 23% while the reduction of emissions will be significantly higher (e.g. NO<sub>x</sub> by 96%, Fine particles by 80%) and the full demand of electricity can be provided without the use of additional generators.

Overall, the project had been assessed as acceptable, having no adverse impacts on the environment.

#### **Summary opinion of Environmental and Social aspects at completion:**

EIB is of the opinion based on reports from the promoter that the Project has been implemented in line with EIB Environmental and Social Standards, applicable at the time of appraisal.