



European Investment Bank (EIB)

Luxembourg, 15 December 2022

Environmental and Social Completion Sheet (ESCS)¹

Overview

Project Name:	TELEFONICA ADVANCED MOBILE BROADBAND 5G
Project Number:	2019-0072
Country:	Germany
Project Description:	The project concerned the first phase of the 5G rollout, including the strengthening of rural mobile 4G coverage and the 4G capacity increase. The project resulted despite the challenges caused by the pandemic in a 5G population coverage of main urban areas and an increase of the 4G coverage to more than 99%. The project implementation was carried out as planned in the years 2020 to 2021.

Summary of Environmental and Social Assessment at Completion

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

The project concerned the modernisation and the expansion of the existing mobile access network through new 4G as well as additional 5G nodes often at existing sites. Only a limited number of new sites (< 1% of existing site number) was necessary for the special governmental requirements to cover so called mobile white spots in rural areas.

As the promoter meanwhile works together with a tower company and the German government also encouraged the operators to open up existing towers for competitors and to building also jointly towers in rural areas, many white spots could be covered with a limited number of newly erected towers.

As required by law the promoter through its subcontractors has carried out the necessary studies required for the installation and operation of new nodes at existing as well as for the construction of entirely new sites.

The promoter is close to the end of the network consolidation phase and recently also switched off an entire service layer. All this led to a constant decrease of energy consumption in network and data centres from 775 GWh in 2016 to 711 GWh in 2021 despite a strong traffic increase of about 50% annually. As a consequence, the energy efficiency ratio “GWh per Tera Byte” improved significantly. Also 100% of the power supply will be sourced from renewable sources starting in 2022.

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.

¹ The template is for ILs and FLs