



Luxembourg, 1 December 2023

Environmental and Social Completion Sheet (ESCS)¹

Overview

Project Name:	KPN 5G NETWORK INITIAL DEPLOYMENT
Project Number:	2018-0652
Country:	Netherlands
Project Description:	The project related to the replacement of the radio infrastructure of 5 000 mobile sites and the expansion of network capacity to enable the initial deployment of 5G across the country. It covered investments in the radio, access network, transmission, core network and IT systems. The project also included the upgrade to LTE of more than 300 sites, the construction of 500 densification sites in dense urban areas and significant improvements of the promoter's cybersecurity capabilities.

Summary of Environmental and Social Assessment at Completion

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

The project mainly consisted of capacity upgrades of existing sites and the construction of a limited number of new sites. The main potential environmental impact of the project would have been related to electromagnetic field (EMF) radiation from base stations and microwave radio equipment. Studies are ongoing to further assess the potential long-term effects of use on human health. So far, mitigation measures adopted are limits to the radiation of the mobile base stations, restrictions to their locations, the control of the power of the handsets and guidelines for consumer usage. The Netherlands has adopted exposure limits aligned with the ones stipulated by the EU recommendation (1999/519/EC), which is based on the ICNIRP (International Commission on Non-Ionizing Radiation Protection) guidelines.

Investments in mobile 4G/5G networks have an effect to significantly improve the quality of broadband services, with widely reported positive social benefits. Furthermore, by improving its cybersecurity capabilities, the promoter contributes to create a safe and secure digital environment for consumers and enterprises that will foster the spreading of the Gigabit society.

The promoter intends to reduce its scope 3 emissions by 39% by 2025 and 45% by 2030 compared to a 2014 base year. It has committed to becoming net-zero by 2040. The targets cover its GHG emissions (scope 1, 2 and 3).

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