Luxembourg, 11 December 2015

Environmental and Social Data Sheet

Overview

Project Name:	*TERNA RETI ELETTRICHE VI*
Project Number:	*2015-0256*
Country:	*Italy*
Project Description:	Investment programme comprising several new/extended electricity transmission facilities geographically dispersed throughout Italy. These include reconductoring of the 380 kV OHL Rondissone-Trino, Vado Ligure-Vignole and Lacchiarella-Chignolo, three new substations in Celano, Melfi and Genzano, extension of Palo del Colle and Brennero substations, reinforcement of the 150 kV cable network supplying the area of Cagliari, installation of reactors in Roma Sud and Rumianca substations and the installation of synchronous condensers in Partinico and Favara substations. The main purpose of these facilities is to integrate renewable generation into the grid, abate congestion, improve voltage regulation and reinforce some areas of the network in order to maintain the reliability standard against generation and demand changes. The programme also includes several sub-projects aimed at improving network operation and maintenance and strengthening network resilience to extreme contingencies, security threats and natural hazards.
EIA required:	Yes, for the new Melfi 380/150 kV substation and associated connections. .

Project included in Carbon Footprint Exercise[1]: no

(details for projects included are provided in section: “EIB Carbon Footprint Exercise”)

Summary of Environmental and Social Assessment, including key issues and overall conclusion and recommendation

Some sub-projects of the programme fall under Annex II of the EIA Directive. According to the screening carried out by the relevant competent authorities, one sub-project has undergone a regional Environmental Impact Assessment process. For one further sub-project, the reconductoring of the 380 kV OHL Lacchiarella-Chignolo Po involving a route variant of 6.5 km, the decision whether an EIA is required or not has not been taken yet.

The remaining sub-projects, which involve substations with short connections (Genzano, Celano and Palo del Colle), installations within the boundaries of existing substations and installation of underground cables, have been/will be subject, as necessary, to environmental analyses (i.e. landscape and archaeological assessments) in the process for the authorization to build and operate.

The environmental impact analyses carried out so far indicate that, subject to the implementation of the identified mitigating measures, no significant impacts are expected to result from the construction and the operation of the sub-projects. Additionally none of the sub-projects, with the exception of the reconductoring Lacchiarella-Chignolo Po and the

[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.

extension of Brennero substation, for which assessment is still outstanding, would adversely affect the integrity of any European site on view of the site's conservation objectives.

Melfi and Genzano substations will enable the integration of renewable generation into the grid. Additionally the synchronous condensers in Partinico and Favara will avoid the operation of must–run OGT, which will be replaced by more efficient CCGT. On this basis the programme is expected to contribute to reducing CO2 emissions.

Based on the information available, and with appropriate environmental conditionality included in the Finance Contract (see below), the programme is expected to be acceptable in environmental terms for Bank financing.

Disbursement against the reconductoring Lacchiarella-Chignolo Po will be subject to the receipt by the Bank of a) a copy of the screening-out opinion or, in case the project will eventually require an EIA, of a copy of the EIA study, satisfactory to the Bank, and the corresponding EIA decree, b) a copy of the authorization to build and operate and c) a written confirmation by the competent authority that the project would not adversely affect the integrity of any European site on view of the site's conservation objectives.

Disbursement against the extension of Brennero substation will be subject the receipt by the Bank of a copy of the authorization to build and operate and the written confirmation by the competent authority that the project would not adversely affect the integrity of any European site on view of the site's conservation objectives.

Environmental and Social Assessment

Environmental Assessment

The proposed programme is part of a Grid Development plan that underwent Strategic Environmental Assessment. Therefore environmental considerations have been incorporated in the design of the sub-projects from the earliest stages. Lines and cables routes and substations locations have been selected so to minimise as much as possible proximity and crossing of human settlements, sensitive areas, and hydrogeological risk areas.

All sub-projects, including the reconductoring of existing lines, have been designed to comply with EMFs exposure limits and corona audible noise limits.

Further to that, appropriate mitigating measures have been planned and will be implemented to minimise the impacts of the sub-projects. These include containing noise, dust vibrations and traffic disruption during the construction works, proper management of soil and aggregates resulting from excavation, installation of flight diverters on ground wires to avoid birds' collision and mortality, minimising felling and trimming of trees and, as necessary, realising compensatory plantations and relocating quality trees.