

Environmental and Social Completion Sheet (ESCS)

Overview

Project Name: PETKIM ETHYLENE PLANT
Project Number: 2012-0012
Country: Turkey
Project Description: The project concerns the capacity optimization comprising a moderate expansion of the promoter's ethylene plant within a petrochemical complex in Aliaga, near Izmir in western Turkey. The intermediary ethylene produced provides feedstock for the production at site of various derivative chemicals, such as e.g. high and low density poly-ethylene (LDPE / HDPE).

Summary of Environmental and Social Assessment at Completion

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

The project consists of a number of plant modifications, capacity adjustments and installation additions to optimize the existing ethylene plant thus eliminating operational bottlenecks. It has been implemented within existing facilities and does not increase the plant's footprint. A respective EIA had been approved and the plant complies with respective legislation. Also these plant additions comply with best available technology (BAT) standard. Additional environmental load is limited and partly reversed to a net gain, such as for NO_x due to the partial burner replacement with low NO_x burners.

Ethylene production is energy intensive and, as a consequence the total absolute CO₂ emissions of the project have been calculated to amount to some 91 kt/a of CO₂. A new calculation at completion was not carried out. However, the relative GHG footprint is nil, based on the assumption that a consequential demand-supply gap would have been filled by respective production elsewhere.

Petkim has developed a comprehensive EHS policy and the required systems to implement it. Its production sites are certified under ISO 14000 (environment) and 18000 (OHS) families. Supplementary information about the promoter's environmental and safety & health policy can be found on its website (status July 2016) under:

- <http://www.petkim.com.tr/Sayfa/2/550/CORPORATE-SUSTAINABILITY-ENVIRONMENT.aspx> and
- <http://www.petkim.com.tr/Sayfa/2/551/CORPORATE-SUSTAINABILITY-SAFETY-AND-HEALTH.aspx>

No significant environment or social issues were noted.

Summary opinion of Environmental and Social aspects at completion:

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