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PROJECT DESCRIPTION

The project concerns nine energy efficiency projects, which are listed below:

- Replacement of old cathodes with cushion cathodes
- Chlorine Condensation and Chilling Water System Renewal Project
- Replacement of Shrink Film Machines with Strechood Machines
- Use of LPG instead of Naphtha as feedstock in Ethilene Furnace
- Steam Generation from VCM Furnace Quench System
- VSD installation at motors of Cooling Towers Fans
- Revamp of Direct Chlorination Unit
- Feeding Furnace with a Mixture of Naphtha and Aromatics Plant Vent Gas instead of Naphtha
- Capacity Expansion Project in PTA Plant

ENVIRONMENTAL AND SOCIAL KEY ISSUES

- Air and noise emissions during operation
- Potential pollution/contaminant emissions during construction
- Increase in consumption of drinking water and dischare of domestic wastewater
- Impact on flora and fauna
- Stakeholder Engagement

MITIGATIONS/SUCCESSFUL IMPLEMENTATION

- TSE-EN ISO 14001 Environmental Management System certification that should guarantee the respect of all environmental rules and periodical monitoring regarding air emissions and noise in operation and construction periods,
- Supply some reports to demonstrate the negligible impact on the habitats around the industrial area during the Petkim operation;

GENERAL INFORMATION

Project Location	Izmir Province, Aliğa District
Technology	Energy Efficiency
Annual Electricity Saving	27,715 MWh/year
Annual CO₂ Reduction	65,400 tCO ₂ /year

TIME SCHEDULE

Start of Construction	January 2012
Expected Commercial Operation	August 2014

FINANCIAL PARAMETERS

Total Project Cost	EUR 28,900,155
MidSEFF Loan	EUR 25,500,000
Payback Time	5.2 years
Internal Rate of Return	25.33 %