

“Energia” municipal solid waste incineration plant: Technical Assessment for International Financial Corporation

Client

IMEPOWER
(contracted by International Finance Corporation)

Country

Ukraine

Duration

from 05.2016 to 11.2016

Services of iC

- Technical Due Diligence
- Energy efficiency assessment
- Benchmarking
- Technical consultations



Project objectives

Technical due diligence of the Waste Incineration Plant “Energia”, including evaluation of the existing assets, assessment of the results of the existing management contract, identification of possible improvements

Project description

- Analysis of the incinerator “Energia” in Kyiv, which was transmitted to Kyivenergo as part of an operator contract
- Analysis of the essential parts of the plant in terms of their capacity, productivity, and technical condition, etc.
- Assessment and quantification of the efficiency in the production of heat and levels of services for the incineration of solid waste

Project data

The “Energia” municipal solid waste incineration plant operated by Kyivenergo currently incinerates approx. 25% of the municipal solid waste of the city of Kyiv

Project specifics

The project required an intensive dialogue with multiple stakeholders, including city administration, financial institution, operator, and several consultants working on financial, legal and other matters

Services

- Technical analysis of assets
- Assessment of current operating costs
- Assessment and quantification of the efficiency in the production of heat and levels of services for the incineration of solid waste
- Technical determination and quantification of potential efficiency improvements
- Review of existing capital investment programs for the next 10 years and confirmation of their feasibility
- Assessment of future investment needs and determination of an appropriate schedule of performance and level of service standards for the new Management Contract with particular emphasis on energy efficiency
- Review of the status of new investments owned by Kyivenergo with an individual value greater than US\$ 1 million that will not be transferred back to the City at the end of the Management Agreement
- Benchmarking for production and operational performance and levels of services provided by assets transferred by the City to Kyivenergo under the Management Agreement from other cities in Ukraine and international standards