

THERMAL EXPLOITATION OF RDF/GREECE-CHINA BILATERAL R&D COOPERATION 2012-2014

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Abstract

The present project focuses on the development and demonstration of innovative gasification technologies for the thermal exploitation of Refuse Derived Fuels (RDF), which are produced from non-recyclable fractions of Municipal Solid Waste (MSW). In this way, the best waste management while saving fossil fuels is pursued, a sustainable practice with positive environmental impact as a reduction of greenhouse gas emissions (GHG) is additionally achieved due to the increased biogenic content of RDF. The RDF gasification plant is installed in MRF plant at Koropi.

In more specific, the TE-RDF project aims to: a) develop and optimize the gasification process of RDF b) develop a methodology for decreasing fuel cost for MRF/MBT utilities c) save cost for RDF disposal/landfill d) decrease the CO₂ emissions e) identify of waste recovered fuel streams with a considerable market potential to be investigated during the gasification tests f) promote the energy exploitation of RDF by its replication and scale – up potential g) determine the market demands and requirements for the utilisation of the products of the gasification process, i.e. syngas and by-products (tars, char)

For the standardization process, certain steps need to be followed including a series of analyses for the RDF in order to specify certain parameters mandatory for the classification. Specifications for the analyses, sampling campaign and classification are given in the framework of CEN/TC 343. After classification and self-declaration RDF is called **Solid Recovered Fuel (SRF)**. Target of the sampling procedure is the analysis and classification of RDF produced in WATTs MRF.

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