



High efficiency combined - cycle gas polygenerator for ecological local generation

Fact Sheet

Project Information

HEGEL

Grant agreement ID: 20153


Start date
1 May 2006

End date
30 April 2009

Funded under
FP6-SUSTDEV

Overall budget
€ 7 861 883

EU contribution
€ 3 289 999

Coordinated by
CENTRO RICERCHE FIAT
SOCIETÀ CONSORTILE PER
AZIONI
 Italy

Objective

Objective is to develop, demonstrate and assess an innovative, high efficiency concept of micro-cogeneration system applied to a real demand site under real operating conditions. The application concept is based on a combined cycle architecture (Combi system) constituted by two integrated cogenerators powered by different prime movers: an innovative reciprocating engine cogenerator and a Rankine engine system (bottoming cycle) operated on the exhaust gases of the reciprocating engine.

The location will be in Istanbul (Turkey) to perform the energy service to an office or residential building. The activity plan includes also system and market studies aimed at evaluating the competitive positioning of the proposed solution in view of exploitation. Economic evaluations will include profitability, business analysis and

exploitation. Economic evaluations will include profitability, business analysis and external costs. The proposed Combi system could complement or substitute centralised power generation resulting in substantial savings of energy (up to 36%), CO2 (up to 50%) and emissions.

Programme(s)

Topic(s)

Call for proposal

FP6-2004-TREN-3

Funding Scheme

STREP - Specific Targeted Research Project

Coordinator



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Last update: 20 March 2008

Record number: 85649

Permalink: <https://cordis.europa.eu/project/id/20153/>

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