

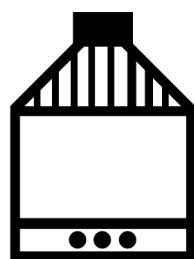


CASE STUDY

CERAMIC FACTORY

THE COMPANY

ITALY



FURNACES



heat source:
EXHAUST FUMES



ORC



ELECTRIC ENERGY

MISSION

1.

Respect emission limits

2.

Avoid waste heat

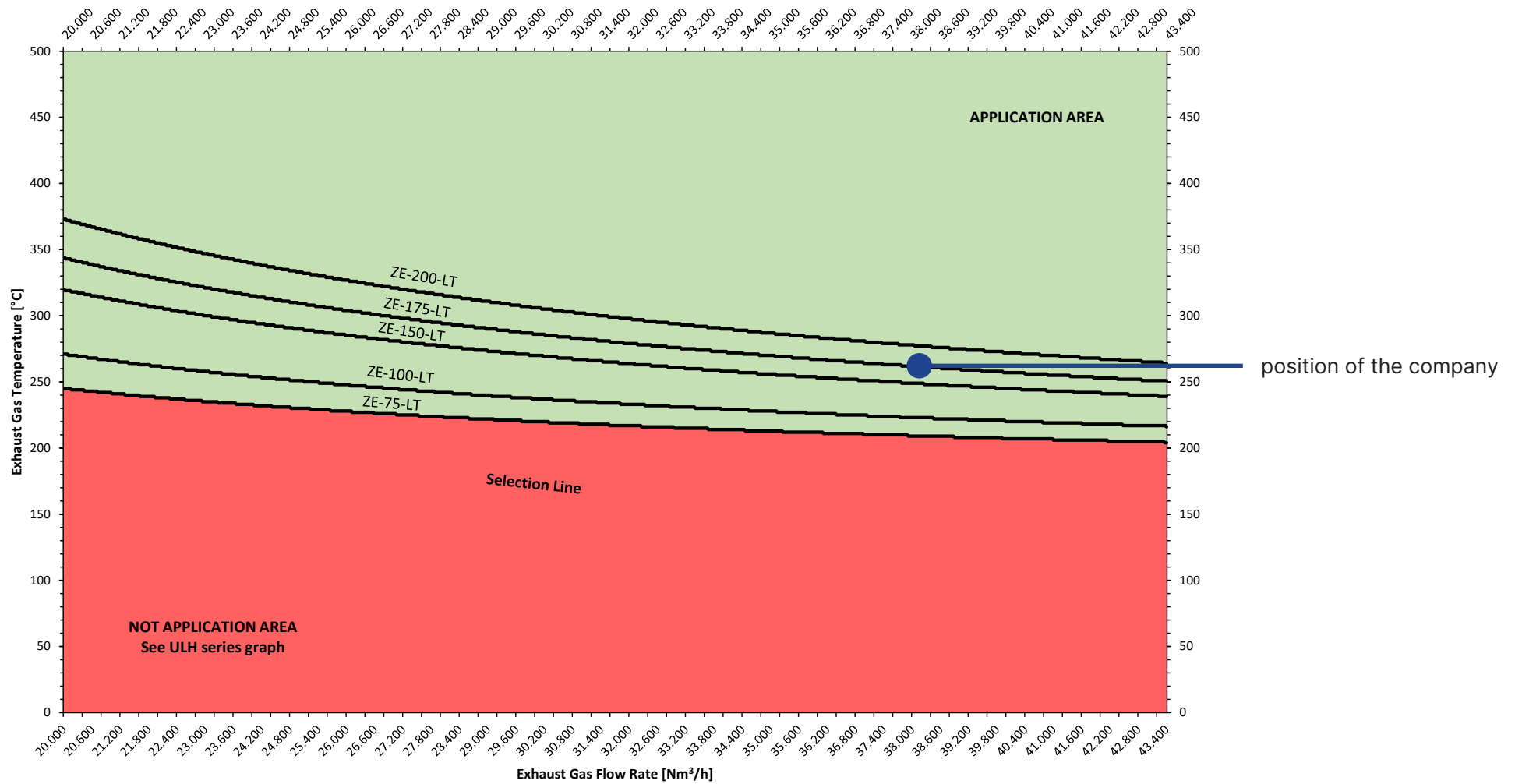
3.

Cover company electricity consumption

FEASIBILITY STUDY

Study of the parameters provided and determination of the ORC module

ORC systems application graph - Exhaust gas/Water - LT series



BUSINESS PLAN AND ROI ANALYSIS

Analysis of the economic parameters and
of the profitability of the plant

Power generation through heat recovered from the exhaust gases in the industrial process.

Model: Zuccato Energia ZE-175-LT

Net power production: 159,90 kWe

Electricity Selling Price: 0,12 €/kWh

Note : Energy Efficiency Certificates (known as TEE) are negotiable securities valued at 250€ for each TOE saved (TOE= Tonne of Oil Equivalent, equivalent to 5,347 kWh)

Value of Investment



786.000,00

(Overall installation)

Annual operating expenses
(OPEX) for maintenance:
€ 10.000,00

Revenue from Electricity



149.666,40 €/y

Annual electric energy
production: 1.247,22 MWh/y
(Considering 7.800 h/y
operation time)

Revenue from Incentives



58.307,54€/y

The ORC plant allows saving
107,24 TOE per year

Pay-Back Time



3,97 years

GOAL OF THE COMPANY

Profit of investment - ORC



Environment - friendly

107 

TOE (Tonne Oil Equivalent) SAVED PER YEAR

319 ton/y

CO₂ AVOID



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