

RECP Best Practices Catalogue

Energy Recovery at the Chimney Level

Developed within the framework of MED TEST II



UNITED NATIONS
INDUSTRIAL DEVELOPMENT ORGANIZATION



The SwitchMed Programme is
funded by the European Union

Best Practice - Energy Recovery at the Chimney Level

SECTOR:	Chemical and Pharmaceutical
Branch:	Manufacture of basic chemicals
CATEGORY	Process control or modification
APPLICABILITY	Utilities

COMPANY SIZE	286
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Description of the Problem (Base Scenario):	Currently the heat from hot gases vented through the chimney is not recovered.
Description of the Solution	The solution is to install a heat recovery exchanger for the hot gases. This measure requires a modification assessment on the combustion air intake (adding a cleaning and filtration system for the combustion air) and a modification of the combustion air intake (adding a cleaning and filtration system for the intake air).

Best Practice - Energy Recovery at the Chimney Level

Economic Gains	€ 42,700
Environmental Gains	Gain in Energy Recovered: 5.25% Reduction in the amount of waste
Health and Safety Impact	-

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Capital Investments & Financial Indicators	€ 189,000
	Time for Return on Investment: 4 years, 5 months
Supplier Information	-
Other Aspects	-
Implementation	Planned measure