

# RECP Best Practices Catalogue

*Fluorite Drying Optimisation*  
*Developed within the framework of*  
*MED TEST II*



UNITED NATIONS  
INDUSTRIAL DEVELOPMENT ORGANIZATION



The SwitchMed Programme is  
funded by the European Union

# Best Practice - Fluorite Drying Optimisation

<b>SECTOR:</b>	<b>Chemical and Pharmaceutical</b>
<b>Branch:</b>	Manufacture of basic chemicals
<b>CATEGORY</b>	Process control or modification
<b>APPLICABILITY</b>	Process

<b>COMPANY SIZE</b>	286
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# Best Practice - Fluorite Drying Optimisation

## Description of the Problem (Base Scenario):

The hot air temperature is an essential parameter to ensure drying the product while optimising the consumption of natural gas.  
A high air temperature improves the thermal efficiency by reducing losses at the chimney level. This indirectly reduces carbon emissions.  
However, the values compatible with the preservation of the product should not be exceeded.

## Description of the Solution

The suggested solution is to work as closely as possible to the maximum allowable temperature values for the equipment and the product, in order to reduce the air flow and consequently, to improve thermal efficiency and reduce gas consumption.



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<b>Economic Gains</b>	The savings that can be achieved are estimated at 15% for the natural gas consumption of this step, or 2,279 MWh/year, which represents a potential gain of € 32,000/year.
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<b>Environmental Gains</b>	-
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<b>Health and Safety Impact</b>	-
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# Best Practice - Fluorite Drying Optimisation

<b>Capital Investments &amp; Financial Indicators</b>	€ 2,000 Immediate Return on Investment
<b>Supplier Information</b>	-
<b>Other Aspects</b>	-
<b>Implementation</b>	Planned measure



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