

RECP Best Practices Catalogue

*Improvement of the quality of galvanizing water
and reducing pneumatic energy losses*

Developed within the framework of MED TEST II



UNITED NATIONS
INDUSTRIAL DEVELOPMENT ORGANIZATION



The SwitchMed Programme is
funded by the European Union

Best Practice - Improvement of the quality of galvanizing water and reducing pneumatic energy losses

SECTOR:	Leather
Branch:	Manufacture of footwear
CATEGORY	Process control or modification
APPLICABILITY	Process

COMPANY SIZE	509 Full-time Employees
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Description of the Problem (Base Scenario):

In the context of improving galvanizing waters, we are looking at the air coming from the compressor, which is used for water bubbling. We find that oils are mixed with the compressed air used for bubbling. It is recommended then, to lower the pressure of compressed air.

Description of the Solution

Measures put in place:

- 1) Installation of a new pipe fed by the vacuum pump which feeds the 10 baths where bubbling occurs.
- 2) Study to examine the reduction of the compressed air produced on the network.



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Economic Gains	The gains are € 115,000/year, equivalent to 30% of gains
Environmental Gains	Following the implementation of this option, a gain of 1,619.32 KWh/year will be achieved, which means a CO ₂ level drop of 1.05 tons of CO ₂ A 51% energy gain rate.
Health and Safety Impact	



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Capital Investments & Financial Indicators	€ 45,000 Investment Time for Return on Investment = 3 months
Supplier Information	Local
Other Aspects	none
Implementation	Measure under implementation



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