

RECP Best Practice Catalogue

*Water efficient and conservation devices for
domestic use*

*Developed within the framework
of MED TEST II*



UNITED NATIONS
INDUSTRIAL DEVELOPMENT ORGANIZATION



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Best Practice - Water efficient and conservation devices for domestic use

SECTOR:	Others
SUBSECTOR:	Manufacture of refined petroleum products
PRODUCTS	Oil-based lubricating oils and paraffin wax.
CATEGORY	Process control or modification
APPLICABILITY	Utilities

COMPANY NAME	---
COMPANY SIZE	Large

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Description of the problem (Base scenario):

As the company has more than 1,000 employees all over the company, therefore the water use for domestic usage is noticeably high reaching 25,920 m³/y.

Description of the solution

It was suggested to introduce water efficient and conservation measures such as installing water aerators on water taps and placing cistern devices in toilets in order to reduce and control the volume of water used for domestic purposes. The implementation of this measure could save up to 50% of the domestic water consumption.



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Economic Benefits

Water saving is about 50% of domestic water usage (12,960 m³/ y)
Water cost saving is about 4,370 Euro/ year.

Environmental Benefits

The implementation of this measure will save on water by about 12,960 m³/ y (50% from the domestic water usage and 3% from the total water consumption) and reduce the amount of wastewater generated.

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Capital investments & financial indicators	Number of water taps is 235 while number of toilets cistern is 175 Cost of one water aerator = 5 USD/ piece while cost of one water flush bag = 15 USD/ piece Total investment cost is 3,420 Euros Payback period is 9 months
Suppliers	
Other aspects	None
Implementation	This measure is under implementation by the company.

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Replicability sectors	The same concept can be replicated in: All types of industries.
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Aspects to investigate for replicability	Number of employees Water balance to know actual amount of domestic water
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Useful resources
