

# RECP Best Practices Catalogue

*Recovery and recycling of water from Waste  
water treatment plant*

*Developed within the framework of MED TEST II*



UNITED NATIONS  
INDUSTRIAL DEVELOPMENT ORGANIZATION



The SwitchMed Programme is  
funded by the European Union

# Best Practice - Recovery and recycling of water from Waste water treatment plant

SECTOR: Textile & Readymade Garments

Branch: Finishing of textiles

CATEGORY: Process control or modification

APPLICABILITY: Utilities

COMPANY SIZE: 700



The SwitchMed Programme is funded by the European Union

TEST Training kit

# Best Practice - Recovery and recycling of water from Waste water treatment plant

## Description of the Problem (Base Scenario):

The water quality of the company's WWTP (Waste Water Treatment Plant) effluent is good enough for it to be recycled and reused in the various stages of the production process.

## Description of the Solution

Procurement of two parallel filtration and osmosis lines to avoid breaks and ensure continuity of the recycled water treatment process:

The cost of 1 cubic metre of water is € 0.67

The cost of 1 cubic metre of recycled water with equipment depreciation is € 0.38

The expected savings for one year: € 34,800



The SwitchMed Programme is funded by the European Union

# Best Practice - Recovery and recycling of water from Waste water treatment plant

## Economic Gains

Economic gain: € 48,696

## Environmental Gains

Water savings: 120,000 m<sup>3</sup>/year

Chemicals savings: 5 tons of acid/year

A reduction of 48.6 tons of CO<sub>2</sub>/year

## Health and Safety Impact

NTR (Nothing to Report)



The SwitchMed Programme is funded by the European Union

# Best Practice - Recovery and recycling of water from Waste water treatment plant

<b>Capital Investments &amp; Financial Indicators</b>	€ 102,522 Time for Return on Investment: 4.2 months
<b>Supplier Information</b>	Manufacturer/supplier of reverse osmosis membranes
<b>Other aspects</b>	NTR (Nothing to Report)
<b>Implementation</b>	Measure under development



The SwitchMed Programme is funded by the European Union