

RECP Best Practices Catalogue

Installation of pigging technology

Developed within the framework of MED TEST II



UNITED NATIONS
INDUSTRIAL DEVELOPMENT ORGANIZATION



The SwitchMed Programme is
funded by the European Union

Best Practice - Installation of pigging technology

SECTOR:	Food & Beverage
BRANCH:	Manufacture of dairy products
CATEGORY	Technology upgrade/Eco-innovation
APPLICABILITY	Utilities
COMPANY SIZE	100 full-time employees



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Description of the Problem (Base Scenario):

Before cleaning and changing the product in the yoghurt packaging section, only water is used for ejection. Much of the product is directed to drainage. It is estimated that there is a 28% in material losses.

Description of the Solution

A pigging station can be installed if the pipes do not have changes in diameter and also between elements like pumps, valves etc.
With a pigging system, the recovered product can be reused, facilitate cleaning and have less BOD/COD and waste water.



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Economic Gains	Total economic gain: € 23,800/year
Environmental Gains	Water gain: 6,000 m ³ /year (7%) Energy gain: - Material gain: 78.4 tons/year (1%) Pollution reduction: 3 tons BOD5/year (1%), 6 tons/year COD (1%)
Quality and Safety Impact	No effect



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Capital Investments & Financial Indicators	Investment € 371,000/year Time for Return on Investment: 15.6 years
Supplier Information	Pigging suppliers
Other Aspects	gain in term of lost time
Implementation	Planned



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