

RECP Best Practice Catalogue

On site recycling of chocolate
Developed within the framework
of MED TEST II



UNITED NATIONS
INDUSTRIAL DEVELOPMENT ORGANIZATION



The SwitchMed Programme is
funded by the European Union

Best practice - On site recycling of chocolate

SECTOR:	Food & Beverage
SUBSECTOR:	Manufacture of other food products
PRODUCTS	Variety of chocolate and confectionary products
CATEGORY	Process control or modification
APPLICABILITY	Process

COMPANY NAME	---
COMPANY SIZE	The company employs around 50 full-time workers and during seasonal production time (including religious holidays) around 100 workers.

Best practice - On site recycling of chocolate

Description of the problem
(Base scenario):

The company produces a wide variety of chocolate and confectionary products using relatively new production machinery lines.

Underneath the feeding belt of the “One shot line”, there is approx. 1kg of product falling to the ground every day. This causes loss of approximately 325 kg/y of raw material, which needs to be disposed off as solid waste.

Description of the solution

The company installed new stainless steel tray below the feeding belt for collecting falling chocolate, for recycling.

Best practice - On site recycling of chocolate

Economic Benefits

Materials and product Loss:

- Product waste reduced by 15%
- Operational Savings: Approx. 1 kg of chocolate/ day (325 kg/y)
- Increase the process line productivity by 0.5 %

TOTAL Saving: at least 2,500 €/y

Environmental Benefits

- Reduction of losses of raw material and waste produced by 325 kg/y
- This represents a reduction of losses in raw material and corresponding waste by 15%

Health and safety impact

N.A

Best practice - On site recycling of chocolate

- | | |
|---|---|
| Capital investments & financial indicators | <ul style="list-style-type: none">• 100 Euro Capital investment• Immediate Pay Back period |
|---|---|

Suppliers	Local supplier
------------------	----------------

Other aspects

Implementation	Implemented. Losses of chocolate are collected every day and recycled on site.
-----------------------	--