

RECP Best Practices Catalogue

Installation of a PV (photo-voltaic) electricity generation system

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 a PV (photo-voltaic) electricity generation system

SECTOR:	Paper, printing and plastic products
SUBSECTOR:	Manufacture of plastic products
PRODUCTS	Paper dairy containers, film for plastic packaging, thermoforming, lacquers, plastic panels.
CATEGORY	Technology upgrade/Eco-innovation
APPLICABILITY	Utilities
COMPANY SIZE	150



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Description of the Problem (Base Scenario):

The annual consumption of electrical energy in the plant is on the order of 10,567,876 KWh/year, which causes a very high cost for the company to cover each year.

Description of the Solution

The installation of a photovoltaic system on the terrace is proposed (2,980 m²) operating in the sun, consisting mainly of photovoltaic panels for the direct conversion of solar energy into electrical energy; the structure bearing the solar panels and a converter of the direct current generated into alternating current. Power of 580 KW is to be installed.



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Economic Gain	The gains are on the order of € 74,073.
Environmental Gain	Electrical Energy: 760,923 MWh, GHG: 657 tons CO ₂ /year
Health and Safety Impact	None



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Investment and Financial Indicators	A provisional budget of € 429,418 is estimated. (Time for Return on Investment: 70 months)
Suppliers	Suppliers of PV installation
Other aspects	These facilities are seen on the roofs of companies more frequently. The risks are low
Implementation and New Indicator	Scheduled for 2019 - 2020



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