

Romanian plastics maker invests in energy efficiency and...

...increases production level and safety in operation

PUTTING THINGS IN THE RIGHT (PLASTIC) BOX

Sterk Plast manufactures more than 200 household plastic products such as buckets, basins, bowls, flowerpots, litter bins, hangers, etc. — from its facility in Medgidia.

Growing demand for Sterk Plast’s products prompted the company to find ways to raise production capacity at lower energy intensity.

Tractebel Engineering (GDF SUEZ) prepared technical documentation to support investment opportunities that improve energy efficiency, raise production capacity, improve operational safety and lower ambient noise in the factory:

- Replacing the plastic injection moulding machines
- Replacement of extrusion blow moulding machines

HIGHLIGHTS

- **Energy savings** — about 2 878 MWh/year
- **Payback** in less than two years
- The investment **pays for itself...** as monthly savings are greater than monthly loan repayments
- Emissions reductions — **2 878 tCO₂e/year saved**



CONSUM ENERGIE			
CONSUM ENERGIE CICLUL AUTOMAT SAU SEMI-CONSUM			
F a Z E	REALA	TRECUTA	CONSUM
INCHIDERE	4.83	4.7	4.3
INJECTIE	8.52	8.3	7.3
PLASTIFICARE	1.55	1.5	1.3
FRACSIUNARE	0.88	53.6	47.5
DESCUIRERE	0.88	7.8	6.2
AMBUCARE	0.88	8.8	8.8
AUXILIAR	0.88	8.8	8.8
ALTE PACE	0.88	8.8	8.8
INDICATOR CICLURI	18.6	37.6	33.3
TOTAL		112.7	9.28

Sterk Plast improved its energy efficiency, productivity and working conditions by making the EEFF investment

TECHNICAL SOLUTION

The two new plastic injection machines feature automatic command, control by LCD display, closed circuit water cooling with control system and alarm system for automatic lubrication system, automatic loading and drying of raw materials. As a result, energy consumption is much lower than the machines that they replaced.

FINANCING THE INVESTMENT

Sterk Plast took a loan of 345 220 EUR from **Banca Transilvania** using the **EU/EBRD Energy Efficiency Finance Facility**, qualifying to receive an **EU Grant** of 15% (51 780 EUR).

