

Romanian manufacturer of huge items of equipment makes huge energy savings...

... by changing technologies, replacing equipment and insulating buildings

ENERGY EFFICIENCY FOR HEAVY INDUSTRY

BETA Buzau makes steel and non-ferrous specialised equipment such as pressure vessels, tanks and heat exchangers for the chemical, petrochemical, paper, cement, food, power, metallurgical and other industries.

Tractebel Engineering (GDF SUEZ) prepared a **Rational Energy Utilization Plan** detailing a dozen energy-saving investment opportunities — such as replacing equipment for welding and handling, changing pumps and a furnace, insulating buildings and more.

Two of the investments are highlighted:

- Replacing a press and drawing technology. This was the 'star' investment at BETA, saving 3.7 GWh/year of energy for an outlay of only 50 000 Euro. The reason that this investment was so effective was a change in technology — replacing a traditional, hot technology with a dishing press which achieves the same result — forming metal into the shape of a dish for the bottom of very large vessels — without the need for heating the metal.
- Thermal rehabilitation of two industrial buildings — bringing energy savings of 1.1 GWh/year and more comfortable conditions for the workforce for an investment of almost 400 000 Euro.



A suite of 12 investments yielded an average of 67% energy savings.

FINANCING

BRD Groupe Société Générale financed the BETA's 782 962 Euro suite of investments which qualified for financing under the **EU/EBRD Energy Efficiency Finance Facility**, so benefiting from free technical consultancy and a 15% EU grant of 109 344 Euro.

HIGHLIGHTS

- Press and drawing technology - **91%** energy savings (3.7 GWh/year)
 - changing traditional approach brought substantial energy and financial gains
 - demonstrates the impact of **thinking 'outside the box'** ...
- Building rehabilitation - **35%** energy savings (1.1 GWh/year)
- Overall - **67%** energy savings (4.9 GWh/year)

