

Romanian bakery lowers its heating, power and cooling costs in partnership with an Energy Services Company (ESCO)...

...without investing a Penny!

LET THE BAKER BAKE!

Spicul, the Bucharest-based bakery, has been supplying bread to local markets for more than 160 years. The company has relocated to a green-field site on the outskirts of the city enabling it to expand its product range and target new markets.

SE-GES — an ESCO owned by the **Romanian American Enterprise Fund** is providing energy services at the new site - at lower cost than Spicul has paid in the past. The ESCO invests, and then recovers its capital, interest and profit from energy sales over a period of thirteen years. As a result, Spicul will be able to focus its attention on its core business of baking, and SE-GES on its core business of providing energy services.



Spicul is now free to focus on its core business of baking bread, cakes and biscuits — without worrying about its energy needs

TECHNICAL SOLUTION

A Jenbacher 1 MWe trigeneration unit can meet part of the bakery's power needs and all its heating and cooling needs, using heat recovered from the motor and two gas chillers, one running with external exhaust gases and the second with natural gas.

One million Euro of the investment was financed by a loan to SE-GES by **BRD Groupe Soci t  G n rale** using the **EU/EBRD Energy Efficiency Finance Facility**, based on a technical study prepared by **Tractebel Engineering (GDF SUEZ)**.

SE-GES, who financed the investment and owns the equipment, will sell low-cost energy to the bakers throughout the period of the ESCO contract, and then transfer the equipment — free — to the bakery.

HIGHLIGHTS

- The ESCO installed a **1 MWe tri-generation** system at the bakery
- The **Build-Own-Operate-Transfer (BOOT)** financing model was used
- **Energy savings** — about 3 500 MWh/year
- **Financial savings** start from Day 1 — for no investment
- Emissions reductions — **700 tCO₂e/year saved**



The container with the new tri-generation plant is neatly located alongside the bakery