

## Dairy installs a biogas boiler to capture energy from waste products...

### ... and lowers its need for light fuel oil by 27%

#### NATURAL PRODUCTS - AND NATURAL ENERGY SOLUTION

**COMALAT** produces and markets milk, sour cream, cheese and yoghurt using traditional Romanian recipes. Operating from the village of Nanov, Teleorman County, the company processes milk from a large number of small local herds.

The availability of whey and dry biomass — both waste products from the dairy processes — represented an opportunity for this company to invest in sustainable energy solutions.

#### TECHNICAL SOLUTIONS

**Tractebel Engineering (GDF SUEZ)** prepared bankable documentation to support a package of both renewable energy and energy efficiency solutions — a biogas boiler, an absorption chiller and heat recovery from combustion gases. The package both introduced a carbon-neutral fuel source to displace some of the company's need for light fuel oil and also lowered overall energy consumption by 884 MWh/year.



*Whey and dry biomass are feedstock for Comalat's new biogas-fired boiler.*

#### FINANCING

**Banca Comercială Română** loaned 257 900 Euro for Comalat's investments, which qualified for financing under the **EU/EBRD Energy Efficiency Finance Facility**, so the company is eligible for an EU grant of 15% as well as EU-financed technical consultancy.

#### IMPACT OF THE INVESTMENT ON THE COMPANY

Comalat's use of light fuel oil falls from 3,094 MWh/year to 2,211 MWh/year, and greenhouse gas emissions fall by 165 tons/year.

#### HIGHLIGHTS

- An investment of **257 900 Euro** — fully financed using the EEFF
- **27%** fuel savings
- **57%** greenhouse gas emissions reductions
- Introduction of a **carbon neutral** fuel to partially replace a carbon-based fuel — as biogas will partially displace LFO in the company's fuel mix
- A **replicable** investment — similar technical solutions may be adopted by other dairies

