



## Case Study

# Asarel Medet JSC

### Project Details

#### sector

Mining and Processing

#### type of project

Energy Efficiency

### Project Results

- » Better work environment
- » Improved company image
- » Less maintenance needs
- » Lower energy costs

## Overview

Asarel Medet JSC is Bulgaria's largest copper miner producing 13 million tons of copper ore per year and is one of the country's leading exporters. The project financed under the BEERECL upgraded the heating ventilation and air conditioning (HVAC) systems at five administrative buildings, and replaced four old forklifts. The new HVAC system, known as a variable refrigerant flow (VRF) system, distributes space heating or cooling using a refrigerant in tubing rather than air in ductwork. It results in significant energy savings, increased room temperature control and is easier to install. The new forklifts reduce both fuel consumption and maintenance and repair expenses.

## Energy Efficiency Measures Installed

- ✓ Modern VRF space heating and cooling system in five building
- ✓ Four new diesel forklifts

**Energy Efficiency  
Reduces Energy Costs  
by 78 %**

### Asarel Medet JSC

#### Investment Details

Total Project Cost	EUR 900,000
KIDSF Grant	EUR 136,000
Loan	EUR 900,000
Simple Payback Period	3.6 years
Internal Rate of Return	36%

#### Estimated Annual Savings

Energy Cost Saving	EUR 215,000
Reduced Energy Costs by %	78%
Repair and Maintenance cost savings	EUR 35,000
Total Cash Savings	EUR 250,000

**Annual Carbon Emission Reduction  
1,000 tons**



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