

## Case Study

# Delectra Hydro JSC

### Project Details

#### sector

*Production of green energy  
Hydro Power Plant*

#### type of project

*Renewable Energy - Hydro*

### Project Results

» *CO<sub>2</sub>, SO<sub>2</sub>, NO<sub>x</sub> and dust  
emissions reduction*

### Overview

Delectra Hydro JSC built a small irrigation system hydro power plant on the Belmeken-Sestrimo cascade in the Pazardzhik region. The hydropower plant was designed and is operated to ensure the down stream water needs of two irrigation systems, two towns and many fields. The project generates 5,580 MWh of green power per year.

### Renewable Energy System Installed

✓ Small Irrigation System  
Hydro Power Plant

**Power production of  
5,580 MWh  
per year**

### Delectra Hydro JSC

#### Investment Details

|                         |             |
|-------------------------|-------------|
| Total Project Cost      | EUR 346,716 |
| KIDSF Grant             | EUR 56,000  |
| Loan                    | EUR 280,000 |
| Simple Payback Period   | 1.8 years   |
| Internal Rate of Return | over 61%    |

#### Estimated Annual Figures

|                                         |             |
|-----------------------------------------|-------------|
| Annual Electricity Production           | 5,580 MWh   |
| Total Revenues                          | EUR 194,210 |
| <b>Annual Carbon Emission Reduction</b> |             |
| 4,350 tons                              |             |