



ŠIŠECAM  
TĀRGOVIŠTE,  
BULGARIA





## 01 CLIENT BRIEF

Area Impianti is an Italian solution provider for flue gas treatment and heat recovery systems. The final user is Şişecam, Turkish leader in glass production. Şişecam was looking to increase energy efficiency and reduce the environmental impact of the industrial process.

## 02 THE SOLUTION

EXERGY, together with Area Impianti provided 3 ORC based heat recovery systems to be installed at existing glass plants: 2 in Turkey and 1 in Bulgaria, Tărgoviște. The solution realized in Tărgoviște exploits the hot fumes generated to produce 5 MWe of electrical power.

## 03 THE RESULT

Today Şişecam Tărgoviște produces greener electricity saving 7,500 tons of oil equivalent per year.

**CLIENT NAME**

AREA IMPIANTI

**PLANT NAME**

ŞIŞECAM TĂRGOVIȘTE

**PLANT LOCATION**

TARGOVISHTA, BULGARIA

**DATE OF IMPLEMENTATION**

JULY 2015

**PRODUCTION LINE CAPACITY**

700 TON/DAY

**APPLICATION**

HEAT RECOVERY (GLASS MILL)

**MODEL USED**

EPS500

**FLOW OF THERMAL OIL**

120 t/h

**INLET TEMPERATURE OF THERMAL OIL**

300°C

**ELECTRICAL GENERATION GROSS**

4,270 kWe

**OUTLET TEMPERATURE OF THERMAL OIL**

150°C

**EFFICIENCY GROSS**

23.7%

**CONDENSING SYSTEM**

AIR (15°C)

**GENERATOR VOLTAGE**

MV

**INSTALLATION**

OUTDOOR