

01

GEOTHERMAL

02

HEAT RECOVERY

03

BIOMASS

04

CSP



ENERGIA
VULTURE ALTO
BRADANO
VENOSA, ITALY

01 CLIENT BRIEF

Energia Vulture Alto Bradano S.r.l had two main needs, to dispose of waste from grape and olive production and waste from the local wood processing industry, using environmentally suitable methods.

The second need was to increase their profitability by giving electricity back to the grid.

02 THE SOLUTION

EXERGY provided a packaged ORC unit that combined with a thermal oil boiler, efficiently converts the agricultural waste into electricity.

03 THE RESULT

The biomass plant is fully operating and is producing 990 kWe with a 24% efficiency of the Radial Outflow Turbine.

CLIENT NAME

ENERGIA VULTURE ALTO BRADANO S.R.L

PLANT NAME

EVA BIOMASS

PLANT LOCATION

VENOSA (PZ), ITALY

DATE OF IMPLEMENTATION

DECEMBER 2012

PLANT SIZE

990 kWe

APPLICATION

BIOMASS

MODEL USED

EP ERS

QUANTITY OF BIOMASS

16000 T/YEAR

ELECTRICAL EFFICIENCY OF THE ORC

24%

ELECTRICAL GENERATION GROSS

990 kWe

THERMAL MEDIUM

THERMAL OIL (300 - 200 °C)

CONDENSING SYSTEM

AIR (15°C)

GENERATOR VOLTAGE

400 V

INSTALLATION

OUTDOOR