

Developed by



European Bank
for Reconstruction and Development

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PROJECT DESCRIPTION

Mutlular Biomass Power Plant involves a conventional biomass power plant, fired with biomass fuel, consisting of a steam boiler with a steam production capacity of 130 tons/h and a steam turbine with electricity generator of a power capacity of 30 MWe, along with the entire technical infrastructure including stockyards for biomass fuel, and the electricity output system to the national power grid.

The plant is expected to produce 172.24 GWh/year in first full year of production equivalent to cover the demand for over 78 thousand households. The energy produced will allow saving over 90,588 tCO₂/year.

CARBON FINANCE

The Project Sponsor has not been considered carbon finance yet.

ENVIRONMENTAL AND SOCIAL KEY ISSUES

- Potential pollution/contaminant emissions during construction/operation activities;
- Potential impacts due to air emissions during operation;
- Cumulative impact Assessment;
- Seismic Zone;
- Community/workers health and safety both during construction and operation phases;
- Stakeholder Engagement;

MITIGATIONS/SUCCESSFUL IMPLEMENTATION

- Supervision of the construction activities by environmental, social and health & safety;
- Implementation of bag filter system as an air emission treatment method;
- Implementation of workers' safety and protection action plans;
- The PC recommends putting in place a monitoring campaign especially on air as well as on seismic, noise, water quality during different phases of the Project;
- Stakeholder Engagement Plan implementation to involve and inform the stakeholders and to reduce the risk of conflicts with ensuring good public relations;
- Identification and assessment of potential cumulative impacts with other existing and planned plants and ancillary works.

GENERAL INFORMATION

Project Location	Balıkesir Province, Gönen District
Technology	Biomass Power Plant
Plant Capacity	30 MWe
Annual Energy Production	172.24 GWh/year
Annual CO ₂ Reduction	90,588 tCO ₂ /year

TIME SCHEDULE

Start of Construction	May 2015
Expected Commercial Operation	October 2016

FINANCIAL PARAMETERS

Total Project Cost	EUR 24,700,000
MidSEFF Loan	EUR 21,100,000
Payback Time	2.9 years
Internal Rate of Return	29.2 %