



Biomass Power Plant

INDIAN SOLAR

Ukraine
September, 2024

General information

Overview	Investment project for construction of a Biomass Power Plant as part of a future Industrial park
Capacity	2 MW.el, 14 767 MWh electricity/year
Fuel	Biomass plant will burn Miscanthus (own plantations) and wood chips (obtained by clearing of self-forested lands ahead of Miscanthus planting) 21 thsd.t/year
Technology	Used biomass power plant built in 2008 in UK, consisting of 1 x Biomass Boiler with 1 x Condensing Steam Turbine-Generator package & Water-Cooled Condenser, with all supporting fuel feed/handling, flue gas treatment, water treatment and auxiliary equipment
Market strategy	Electricity will be sold via a trader at the Day Ahead Market Starting year 2 of the operation, heat will be extracted to be sold to neighboring businesses
Project partners	MISCANTHUS TECHNOLOGY, INDIAN SOLAR
Social impact	Neutral CO2 emissions, 16 new jobs created, tax payments to local budget, equal opportunities for men and women

Project location



Kamianyi Brid

Zhytomyr region,
population 3 000

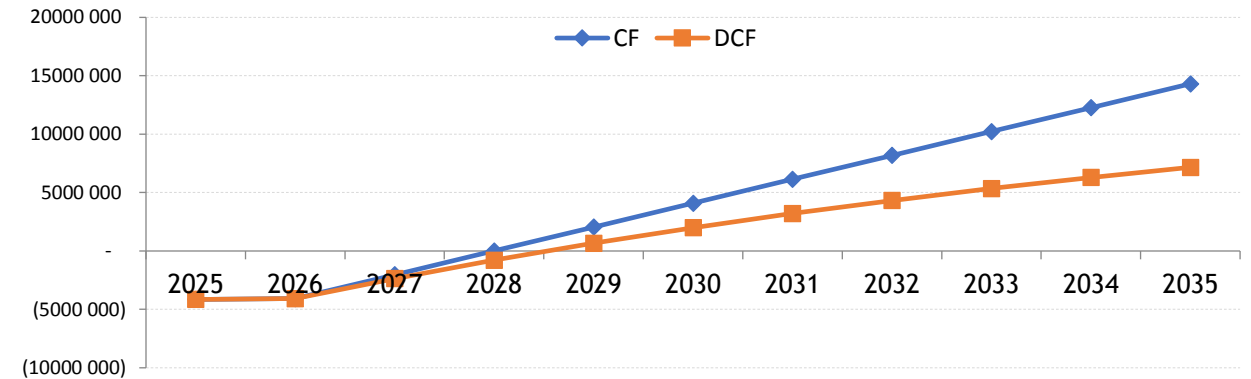
Land plot



10,7 ha plot of industrial designation; 900 m2 office building
 Foundation to be used for the power plant
 10 kV cable line; Medium pressure gas pipeline
 6 m3/h capped well; Water tower
 Convenient access roads

Project economics

CAPEX	EUR	4 800 000
OPEX	EUR	934 634
EBITDA	EUR	1 956 820
Payback Period /PBP/	years	3,0
Discounted Payback Period /DPBP/	years	3,5
Net Present Value /NPV/	EUR	7 940,6
Internal Rate of Return /IRR/	%	35%
Profitability Index /PI/		2,7



Contacts

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