

D.T2.2.3 Methodology to test the tool to assess public investments for industry's low carbon transition

Annex II - Project level tool calculator

Local specification: **Poland**

The Project level tool calculator main focus is to evaluate economic parameters (e.g. NPV – net present values, CF – cash flow, etc.) as well as environmental benefits in terms of decreased carbon emissions of particular projects focused on energy efficiency improvement and/or use of renewable energy sources.

With reference to funding/financial support, the user is able to simulate how different types of instruments (subsidies, loans) and different shares of financial support affect economic parameters of the project and so its financial viability.

This local specification includes energy- and GHG-related data for Poland, and shall be use only in this regional context in order to obtain valid results.

For instructions how to use the tool, please refer to the main document "Methodology to test the tool to assess public investments for industry's low carbon transition".



Company name: _____
 Project name: _____
 Project ID: _____
 Date: _____

Description: _____

INPUT		INPUT		OUTPUT	
Total	€ 105,000.00	Electricity	15.00 MWh 200.000 €/MWh	Expected drop of CO2 emissions	23,454.297 kg
Loan	60%	Natural Gas	15000.00 kWh 0.200 €/kWh	Expected drop of CH4 emissions	0.000 g
Own Resource	30%	Coal	0.00 kWh 0.200 €/kWh	Expected drop of N2O emissions	254.402 g
Subsidy	30%	Heat	15000.00 kWh 0.000 €/kWh	Expected drop of CO2eq emissions	23,530.108 kg
Interest rate	2.00%	Solid biofuels	5000.00 kWh 0.700 €/kWh	Expected Cash Flow	9,503 €/years
Repay	20 years	Gaseous biofuels	0.00 kWh 0.700 €/kWh	Net Present Value	€ 59,913.07
Discount rate	5.00%	Other fuels	0.00 kWh 0.200 €/kWh	Simple payback:	11 years
Lifetime/expected payback period	20 years	Total	50000.00 kWh 0.190 €/kWh	Equivalent scenario without loan investment	
				Own resources investment	€ 58,515.32
				Subsidy share:	44%

Expected energy savings & cost of energy

