

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: **Czech Republic**

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 the Czech Republic, 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	€ 150,000.00	Electricity	5.00 kWh 0.500 €/kWh	Expected drop of CO2 emissions	65,569,514.365 kg
Loans	20%	Natural Gas	1000.00 kWh 0.200 €/kWh	Expected drop of CH4 emissions	6,231,955.159 g
Own Resource	30%	Coal	20000000.00 kWh 0.200 €/kWh	Expected drop of N2O emissions	929,410.397 g
Subsidy	50%	Heat	3000.00 kWh 0.300 €/kWh	Expected drop of CO2eq emissions	66,002,277.483 kg
Interest rate	5.00%	Solid biofuels	5000.00 kWh 0.200 €/kWh	Expected Cash Flow	40,004,103 €/years
Repay	20 years	Gaseous biofuels	5000.00 kWh 0.400 €/kWh	Net Present Value	€ (23,735.31)
Discount rate	5.00%	Other fuels	0.00 kWh 0.200 €/kWh	Simple payback:	0 years
Measure	Lifetime/expected payback period 20 years	Total	200014.01 MWh 200.007 €/MWh	Equivalent scenario without loan investment	
				Own resources investment	€ 75,000.00
				Subsidy share:	50%

Expected energy savings & cost of energy

Energy savings

Energy cost

Cash Flow

Cumulative Discounted Cash Flow

Cumulative Discounted Cash Flow of Own resource and Subsidy share without Loan equivalent to the current investment share