

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: **Italy / Veneto**

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 Italy (Veneto), 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".

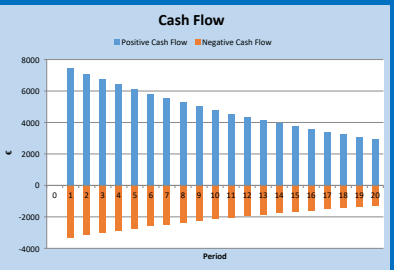
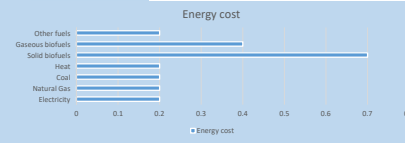
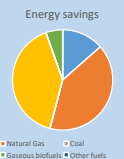
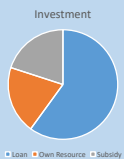


Company name: _____
 Project name: _____
 Project ID: _____
 Date: _____

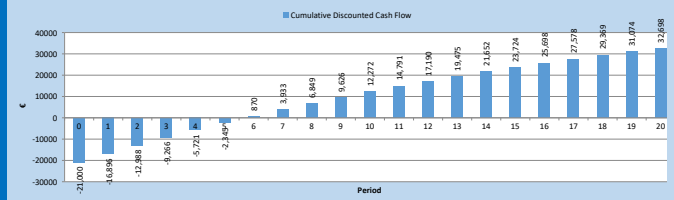
Description: _____

INPUT		INPUT		OUTPUT			
Total	€ 105,000.00	Electricity	5.00 MWh	200,000 €/MWh	Expected drop of CO2 emissions	8,917.418 kg	
Loan	60%	Natural Gas	150,000.00 kWh	0.200 €/kWh	Expected drop of CH4 emissions	1,668.759 g	
Own Resource	20%	Coal	0.00 kWh	0.200 €/kWh	Expected drop of N2O emissions	104.968 g	
Subsidy	20%	Heat	0.02 GWh	200,000,000 €/GWh	Expected drop of CO2eq emissions	8,990.417 kg	
Interest rate	1.00%	Solid biofuels	0.00 kWh	0.700 €/kWh	Expected Cash Flow	7,800 €/years	
Repay	20 years	Gaseous biofuels	2.00 MWh	400,000 €/MWh	Net Present Value	€ 32,697.61	
Discount rate	5.00%	Other fuels	0.00 kWh	0.200 €/kWh	Simple payback:	13 years	
Lifetime/expected payback period	20 years	Total	370,000 kWh	0.211 €/kWh	Equivalent scenario without loan investment	Own resources investment	€ 64,507.63
					Subsidy share:	39%	

Expected energy savings & cost of energy



Cumulative Discounted Cash Flow



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

