

Excel-based analysis tool to be introduced-relevance, purpose and main features











RELEVANCE

Currently heterogeneity of ICs make difficult to compare them from an investors point of view requiring the development of a simplified model

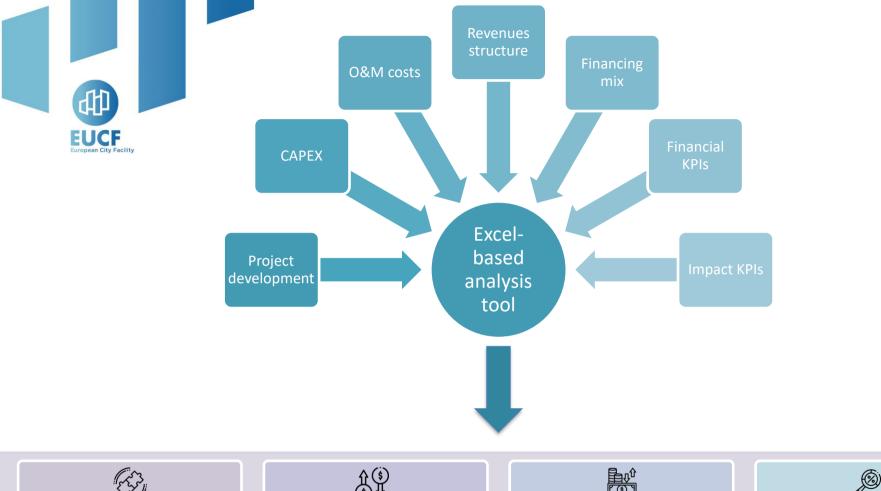
This tool increases projects' appeal and widen the access to potential investors

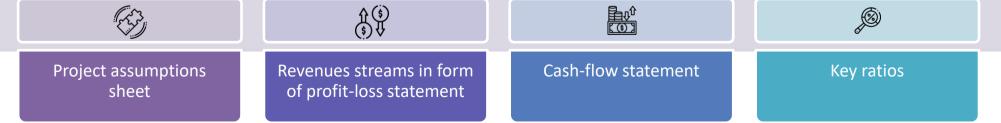
PURPOSE

Allow ICs to be compared form investors' analytic perspective simplifying as much as possible the input info requested to final users

Summarize common elements of projects in way investors are familiar with

Relevance and purpose





Excel-based analysis tool main features





Although each project presents its own features, the following elements affect all projects:

- Project development through medium-long term steps (implementation, operation)
 - Implementation during investment period (feasibility study, construction phases)
 - > Operation period in which revenues and on-going operating costs will start (flexible start)
 - Possibility to have investments also during the operation period (within the first 10 years)
- > Project Financing via a mix of (i) subsidies + public equity, and (ii) private equity + debt instruments;
 - > subsidies + public equity assumed "not redeemable" (partly funding an initial cash endowment to cover cash outflows during investment period)
 - Private equity + debt assumed redeemable
 - Debt cost and equity premium benchmarked on country sovereign debt market rates from public sources adjusted for sub-sovereign risk (sources: Investing, Damodaran websites, ICO)
- Cash flows distribution assumed via a pre-defined waterfall
- Project viability determined by a mix of economic, financial and impact KPIs measured by financial and sustainability ratios. Model tested with a "proxy project" (average figures of a sample of ICs)
- The Users have only to focus on input their figures, the model makes all the rest

Executive Summary - Project development



Capex (Inputs)

Investment horizon in 3 macro stages of a development period up to 10 years

For each stage the Users can define:

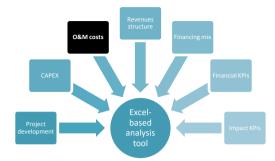
- Investment items and expenses
- Year of investment



CAPEX											Investment
	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	value 56.476.387 €
	2023	2024	2025		ity study	2020	2029	2030	2031	2032	30.470.387 €
Preliminary analysis	1.129.528€				.,,						2%
Scope definition	1.694.292 €										3%
Market research	2.823.819€										5%
											0%
											0%
											0%
											0%
											0%
											0%
											0%
Total FS	5.647.639 €	0€	0€	0€	0€	0€	0€	0€	0€	0€	10%
				Construct	ion phase 1						100/
item 1		6.777.166 €									12%
item 2		11.295.277 €									20%
item 3		4.518.111€									8% 0%
											0%
											0%
											0%
											0%
											0%
											0%
Total C1	0€	22.590.555€	0€	0€	0€	0€	0€	0€	0€	0€	40%
				Construct	ion phase 2						
item 1			11.295.277€								20%
item 2			8.471.458€								15%
item 3			8.471.458€								15%
											0%
											0%
											0%
											0%
											0%
											0% 0%
 Total C2	0€	0€	28.238.194€	0€	0€	0€	0€	0€	0€	0€	50%
TOTAL by year		22.590.555€		0€	0€	0€	0€	0€	0€	0€	30/6
TOTAL Dy year	5.047.039 €	22.590.555 €	20.230.134 €	U €	U E	U E	U €	0 €	U €	0 €	

Investment assumptions (Capex)





OPEX

3.2 /			
		2025	
	Operat	ting Expenses	
Rent		-318.833 €	12%
Salaries and wages		-850.221€	32%
Accounting and legal fees		-106.278 €	4%
Sales and marketing fees		-159.416€	6%
Office supplies		-53.139€	2%
Repairs		0€	0%
Utilities Expenses		-132.847 €	5%
Cost of goods sold		-1.036.207€	39%
Bank charges		0€	0%
			0%
			0%
			0%
			0%
			0%
			0%
			0%
			0%
			0%
			0%
			0%
TOTAL		-2.656.941 €	100%

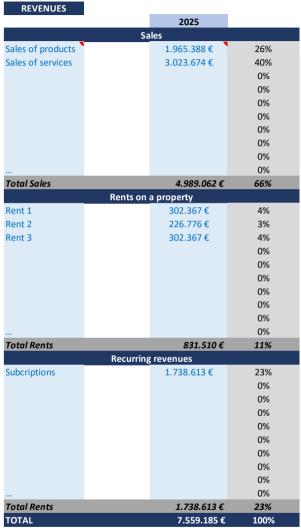
Operating expenses assumptions

Operating Expenses (Inputs)

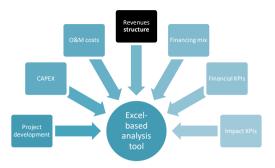
The Users can define:

- Expenses items
- Annual amount





Revenues assumptions



Revenues (Inputs)

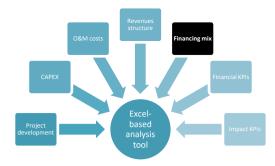
The Users can define:

- Revenues items
- Annual amount



European City Facility	
Country	Spain
Project type	H2020 EUCF
Project Sectors	Renewable energy production infrastructure
Squared metres (Only for public,commercial & residential buildings, Building integrated energy systems and District heating and cooling)	0
Project Start Year	2023
Revenues and operating expenses start year	2025
Project Termination Year	2044
Project Lifetime (yrs)	20
Debt Maturity	15
Investment Period (yrs)	3
HYP. Revenues (Annual Growth %)	5,00%
HYP. Costs (Annual Growth %)	3,00%
HYP. Dividends (Pay Out %)	80,00%
HYP. Subsidies	20,00%
HYP. Public Funding	20,00%
HYP. Equity	60,00%
HYP. Debt	40%
Opening fee	0,50%
Equity investors targeted yield	10,00%
nitial Cash (%)	5,00%
D/E min to equity release	0,50x
% equity release	10,00%
Equity distrib from year	7,00

Project Assumptions & Financing Mix



Simplified input table

Country & Project type Project and Debt maturity Costs / Revenues evolution

Project parameters

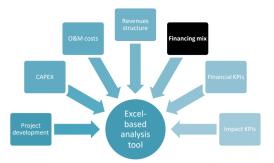
Subsidies & Public contributions % Debt / Equity %

Debt repayments	VERO	0,00€
Debt repayments	FALSO	579.803,11€

Debt repayment control

- In Assumptions sheet the debt repayment check indicator is key to verify whether the input figures ensure project financial sustainability
- In particular situations (i.e. low equity %; low subsidies %, high costs vs revenues) where the debt repayment is not achieved, the Users can change some items to increase:
 - initial cash%
 - subsidies and/or public funding %
 - equity %



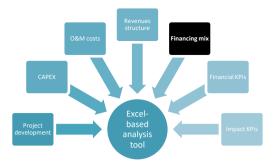


FINANCIAL OUTPUT

PROFIT & LOSS STATEMENT	2023	2024	2025	2026	2027	2028	2029	2030
For the year ended 31 December	1	2	3	4	5	6	7	8
In EUR								
Revenue	0 €	0€	7.559.185 €	7.937.145 €	8.334.002 €	8.750.702 €	9.188.237 €	9.647.649 €
Revenue Growth (%)				5%	5%	5%	5%	5%
Operating Costs	0€	0€	-2.656.941 €	-2.736.650 €	-2.818.749 €	-2.903.312 €	-2.990.411 €	-3.080.123 €
Costs Growth (%)				3%	3%	3%	3%	3%
Gross Margin (proxy EBITDA)		0€	4.902.244 €	5.200.495 €	5.515.253 €	5.847.390 €	6.197.826 €	6.567.526 €
Amortisation, depreciation and impairments	-183.548 €	-917.741 €	-1.835.483 €	-1.835.483 €	-1.835.483 €	-1.835.483 €	-1.835.483 €	-1.835.483 €
Total expenses	-183.548 €	-917.741 €	-4.492.424 €	-4.572.132 €	-4.654.232 €	-4.738.794 €	-4.825.894 €	-4.915.606 €
Results from operating activities (proxy EBIT)	-183.548 €	-917.741 €	3.066.761 €	3.365.012 €	3.679.770 €	4.011.908 €	4.362.344 €	4.732.043 €
Interest income		_	_	_	_	_	_	
Interest expenses	-122.889 €	-602.805 €	-1.166.050 €	-1.084.292 €	-1.035.700€	-983.283 €	-926.742 €	-865.752 €
Net finance expenses	-122.889 €	-602.805 €	-1.166.050 €	-1.084.292 €	-1.035.700 €	-983.283 €	-926.742 €	-865.752 €
Profit before income tax	-306.437 €	-1.520.546 €	1.900.712 €	2.280.720 €	2.644.071 €	3.028.625 €	3.435.601 €	3.866.291 €
Income tax expense	0 €	0 €	-18.432 €	-570.180 €	-661.018 €	-757.156 €	-858.900 €	-966.573 €
Effective Tax Rate (%)	25%	25%	25%	25%	25%	25%	25%	25%
Profit after income tax	-306.437 €	-1.520.546 €	1.882.280 €	1.710.540 €	1.983.053 €	2.271.468 €	2.576.701 €	2.899.718 €
Dividends	0€	0€	1.505.824 €	1.368.432 €	1.586.442 €	1.817.175 €	2.061.361 €	2.319.775 €
Pay out (%)	0%	0%	80%	80%	80%	80%	80%	80%

Profit and Loss Statement





FINANCIAL OUTPUT

		1	2	3	4	5	6	7	8
CASH FLOW		2023	2024	2025	2026	2027	2028	2029	2030
EBIT	141.849.017€	-183.548€	-917.741€	3.066.761 €	3.365.012€	3.679.770€	4.011.908 €	4.362.344 €	4.732.043 €
TAXES	-32.733.072 €	0€	0€	-18.432 €	-570.180 €	-661.018€	-757.156€	-858.900 €	-966.573€
NOPAT	109.115.944€	-183.548 €	-917.741 €	3.048.329 €	2.794.832 €	3.018.753€	3.254.752 €	3.503.443 €	3.765.470 €
D&A	36.709.652€	183.548 €	917.741 €	1.835.483 €	1.835.483 €	1.835.483 €	1.835.483 €	1.835.483 €	1.835.483 €
CF - INVESTMENTS									
CAPEX	-36.709.652 €	-3.670.965€	-14.683.861€	-18.354.826€	0€	0€	0€	0€	0€
CF - INVESTMENTS		-3.670.965€	-14.683.861€	-18.354.826 €	0€	0€	0€	0€	0€
FREE CASH FLOW	109.115.944 €	-3.670.965 €	-14.683.861 €	-13.471.014 €	4.630.315 €	4.854.235 €	5.090.234 €	5.338.926 €	5.600.953 €
CF - DEBT									
NEW DEBT	14.683.861 €	1.468.386€	5.873.544€	7.341.930 €	0€	0€	0€	0€	0€
Initial Cash Endowment		2.823.819 €	0€	0€	0€	0€	0€	0€	0€
DEBT SERVICE (Interests + Principal + Opening Fee)	-25.600.588 €	-177.523€	-880.273€	-1.738.521 €	-1.701.811€	-1.701.811€	-1.701.811€	-1.701.811€	-1.701.811€
CF - DEBT		4.114.682 €	4.993.271€	5.603.409 €	-1.701.811 €	-1.701.811€	-1.701.811€	-1.701.811€	-1.701.811 €
CF - SHAREHOLDERS									
Dividends	-80.020.961 €	0€	0€	-1.505.824€	-1.368.432 €	-1.586.442€	-1.817.175€	-2.061.361€	-2.319.775€
NEW EQUITY	22.025.791 €	2.202.579€	8.810.316€	11.012.896 €	0€	0€	0€	0€	0€
Equity refund	-22.025.791 €	0€	0€	0€	0€	0€	0€	0€	-2.202.579€
CF - SHAREHOLDERS		2.202.579€	8.810.316 €	9.507.072 €	-1.368.432 €	-1.586.442€	-1.817.175€	-2.061.361€	-4.522.354 €
NET CASHFLOW	21.002.076€	2.646.296 €		1.639.467€	1.560.072 €	1.565.981€	1.571.248 €	1.575.754€	-623.212€
CUMULATIVE NET CASH FLOW		2.646.296 €	1.766.023€	3.405.490 €	4.965.562€	6.531.543€	8.102.791 €	9.678.545 €	9.055.333 €

Cash Flow Statement





FINANCIAL OUTPUT

EDEE CASH	ELOW/		WACC	8,36%				
FREE CASH	FLOW		RV Growth (%)	0,1%				
	1	2	3	4	5	6	7	8
	2023	2024	2025	2026	2027	2028	2029	2030
141.849.017€	-183.548€	-917.741 €	3.066.761€	3.365.012 €	3.679.770€	4.011.908€	4.362.344 €	4.732.043 €
-32.733.072€	0€	0€	-18.432 €	-570.180€	-661.018€	-757.156€	-858.900€	-966.573 €
109.115.944 €	-183.548€	-917.741 €	3.048.329€	2.794.832 €	3.018.753 €	3.254.752€	3.503.443 €	3.765.470 €
36.709.652€	183.548€	917.741 €	1.835.483€	1.835.483 €	1.835.483 €	1.835.483€	1.835.483€	1.835.483 €
-36.709.652€	-3.670.965€	-14.683.861€	-18.354.826€	0€	0€	0€	0€	0€
	-3.670.965 €	-14.683.861 €	-13.471.014€	4.630.315 €	4.854.235 €	5.090.234 €	5.338.926€	5.600.953 €
	1	2	2	4	F	6	7	8
				<u> </u>			•	0,526048256
	-3.387.727€	-12.505.373 €	-10.587.292 €	3.358.330 €	3.249.090 €	3.144.177€	3.043.346 €	2.946.372 €
	-44.483.351€	-177.933.403 €	-163.236.589€	56.108.384 €	58.821.763€	61.681.510€	64.695.060€	67.870.204 €
	-41.051.184€	-151.535.323 €	-128.292.747€	40.694.953€	39.371.234€	38.099.931€	36.878.097€	35.703.002 €
	141.849.017 € -32.733.072 € 109.115.944 € 36.709.652 € -36.709.652 €	2023 141.849.017 € -183.548 € -32.733.072 € 0 € 109.115.944 € -183.548 € 36.709.652 € 183.548 € -36.709.652 € -3.670.965 € -3.670.965 € 109.922843799	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	FREE CASH FLOW 1 2 3 2023 2024 2025 141.849.017 € -183.548 € -917.741 € 3.066.761 € -32.733.072 € 0 € 0 € -18.432 € 109.115.944 € -183.548 € -917.741 € 3.048.329 € 36.709.652 € 183.548 € 917.741 € 1.835.483 € -36.709.652 € -3.670.965 € -14.683.861 € -18.354.826 € -3.670.965 € 14.683.861 € -13.471.014 € 1 2 3 0,922843799 0,851640676 0,785931317 -3.387.727 € -12.505.373 € -10.587.292 € -44.483.351 € -177.933.403 € -163.236.589 €	RV Growth (%) 0,1% 1 2 3 4 2023 2024 2025 2026 141.849.017 € -183.548 € -917.741 € 3.066.761 € 3.365.012 € -32.733.072 € 0 € 0 € -18.432 € -570.180 € 109.115.944 € -183.548 € -917.741 € 3.048.329 € 2.794.832 € 36.709.652 € 183.548 € 917.741 € 1.835.483 € 1.835.483 € -36.709.652 € -3.670.965 € -14.683.861 € -18.354.826 € 0 € -3.870.965 € -14.683.861 € -13.471.014 € 4.630.315 €	RV Growth (%) 0,1% 1 2 3 4 5 2023 2024 2025 2026 2027 141.849.017 € -183.548 € -917.741 € 3.066.761 € 3.365.012 € 3.679.770 € -32.733.072 € 0 € 0 € -18.432 € -570.180 € -661.018 € 109.115.944 € -183.548 € -917.741 € 3.048.329 € 2.794.832 € 3.018.753 € 36.709.652 € 183.548 € 917.741 € 1.835.483 € 1.835.483 € 1.835.483 € -36.709.652 € -3.670.965 € -14.683.861 € -18.354.826 € 0 € 0 € -3.670.965 € -14.683.861 € -13.471.014 € 4.630.315 € 4.854.235 € 1 2 3 3 4 5 0,922843799 0,851640676 0,785931317 0,725291842 0,669331078 -3.387.727 € -12.505.373 € -10.587.292 € 3.358.330 € 3.249.090 € -44.483.351 € -177.933.403 € -163.236.589 € 56.108.384 € 58.821.763 €	RV Growth (%) 0,1% 1 2 3 4 5 6 2023 2024 2025 2026 2027 2028 141.849.017 € -183.548 € -917.741 € 3.066.761 € 3.365.012 € 3.679.770 € 4.011.908 € -32.733.072 € 0 € 0 € -18.432 € -570.180 € -661.018 € -757.156 € 109.115.944 € -183.548 € -917.741 € 3.048.329 € 2.794.832 € 3.018.753 € 3.254.752 € 36.709.652 € 183.548 € 917.741 € 1.835.483 € 1.835.483 € 1.835.483 € 1.835.483 € -36.709.652 € -3.670.965 € -14.683.861 € -18.354.826 € 0 € 0 € 0 € -8.670.965 € -14.683.861 € -13.471.014 € 4.630.315 € 4.854.235 € 5.090.234 € 1 2 3 4 5 6 0,922843799 0,851640676 0,785931317 0,725291842 0,669331078 0,617688035 -3.387.727 € -12.505.373 € -10.587.292 € 3.358.330 € 3.249.090 € 3.144.177 € <td< td=""><td>RRECASH FLOW RV Growth (%) 0,1% 1 2 3 4 5 6 7 2023 2024 2025 2026 2027 2028 2029 141.849.017 € -183.548 € -917.741 € 3.066.761 € 3.365.012 € 3.679.770 € 4.011.908 € 4.362.344 € -32.733.072 € 0 € 0 € -18.432 € -570.180 € -661.018 € -757.156 € -858.900 € 109.115.944 € -183.548 € -917.741 € 3.048.329 € 2.794.832 € 3.018.753 € 3.254.752 € 3.503.443 € 36.709.652 € 183.548 € 917.741 € 1.835.483 € 1.835.483 € 1.835.483 € 1.835.483 € 1.835.483 € 1.835.483 € 1.835.483 € 0.6 0 € 0 € 0 € 0 € 0 € 0 € 0 € 0 € 0 € 0 € 0 € 0 € 0 € 0 € 0 € 0 € 0 € 0 € 0.617688035 0,570029572 -3.387.727 € -12.505.373 € -10.587.292 € 3.358.330 € 3.249.090 € 3.144.177 € 3.043.346 € -44.483.351 €</td></td<>	RRECASH FLOW RV Growth (%) 0,1% 1 2 3 4 5 6 7 2023 2024 2025 2026 2027 2028 2029 141.849.017 € -183.548 € -917.741 € 3.066.761 € 3.365.012 € 3.679.770 € 4.011.908 € 4.362.344 € -32.733.072 € 0 € 0 € -18.432 € -570.180 € -661.018 € -757.156 € -858.900 € 109.115.944 € -183.548 € -917.741 € 3.048.329 € 2.794.832 € 3.018.753 € 3.254.752 € 3.503.443 € 36.709.652 € 183.548 € 917.741 € 1.835.483 € 1.835.483 € 1.835.483 € 1.835.483 € 1.835.483 € 1.835.483 € 1.835.483 € 0.6 0 € 0 € 0 € 0 € 0 € 0 € 0 € 0 € 0 € 0 € 0 € 0 € 0 € 0 € 0 € 0 € 0 € 0 € 0.617688035 0,570029572 -3.387.727 € -12.505.373 € -10.587.292 € 3.358.330 € 3.249.090 € 3.144.177 € 3.043.346 € -44.483.351 €

Project Valuation

22.911.352€

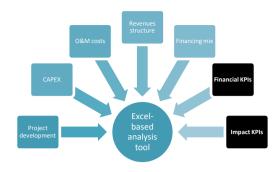
45.025.707€

NPV residual value @2044

NPV Total Project

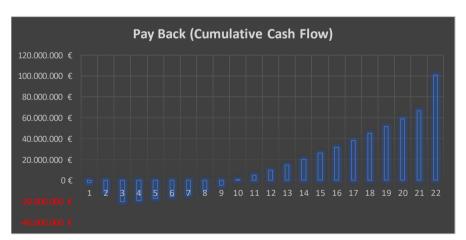


FINANCIAL & ESG OUTPUT



Financial Metrics

Internal Rate of Return (IRR)	15,88%
PayBack Period (Years)	10
Net Present Value (NPV)	45.025.707 €



Financial KPIs & Impact KPIs

ESG Metrics

CO2 avoided (tonnes)	354.831
Energy Savings (kWh)	2.100.215.657
Energy produced (kWh)	2.100.215.657
Energy Savings (€)	541.645.618 €
Job creation (number of jobs)	1.017
Investment value (€)	56.476.387 €



FINDINGS

Preliminary exam of ICs evidenced some numbers inconsistencies like:

- High size investments paired with low size of revenues
- Revenues < costs
- Zero revenues
- This model may help IC Sponsors to "fine-tune" their projects

OUTCOME

Doubts about figures / mismatching between original language documents and ICs summary file

Single projects valuation to undertake upon model validation

ICs Preliminary findings and outcome

















