



Example list of capex items from a wind farm project:

Many of the same items would appear as capex for
other types of renewable energy projects:

e.g. solar – only substituting PV panels for turbines

Construction and EPC

Turbine Supply Agreement
Balance of Plant Contract

Pre-construction engineering

Other Construction Items

Interconnection

Development cost

Land lease signing fee

Connection and substation servitude

Other Fees:

Sponsor development fee

DoE development fee

External advisors:

Sponsors legal fees

Financial model audit

Documentation fee

Lenders technical advisor

Lenders legal advisor

Lenders insurance advisor

Other Costs:

Bid costs

Registration of mortgage bonds

Bid bond cost

Working capital (start-up costs)

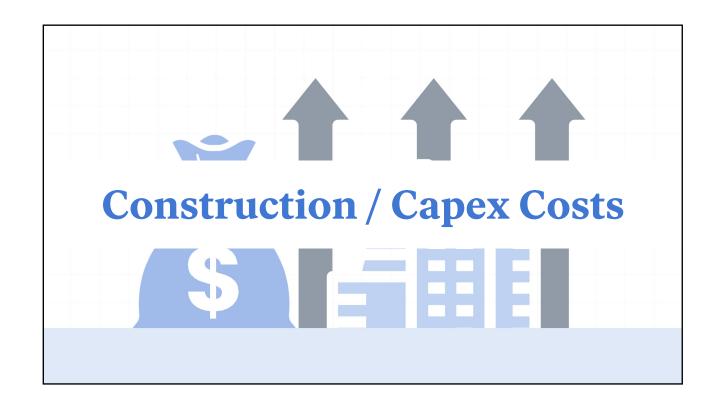


High-level industry-average estimates evolve into detailed costs sourced from tenders and draft contracts.



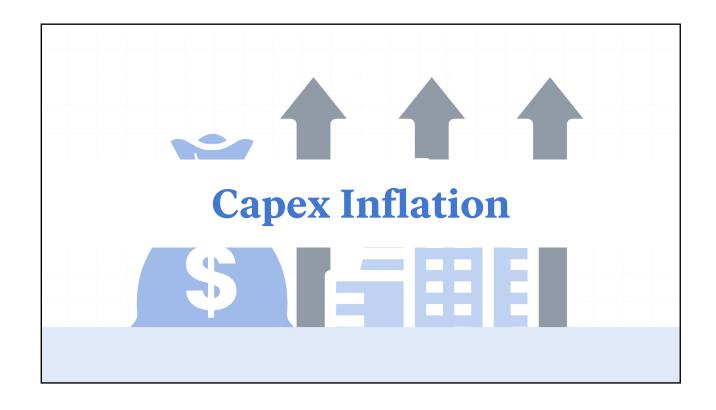
The capex estimates mature as the project approaches financial close.

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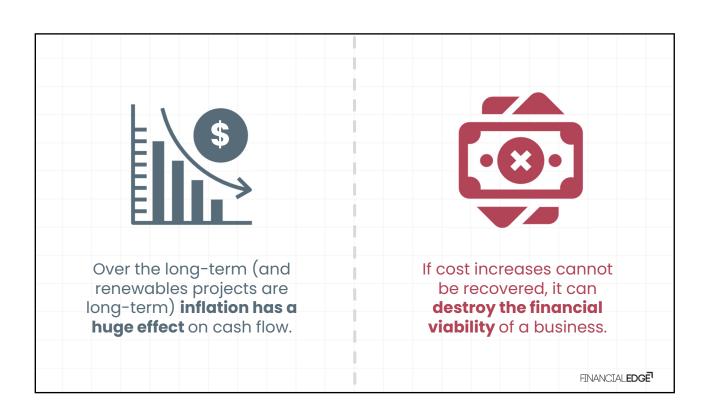


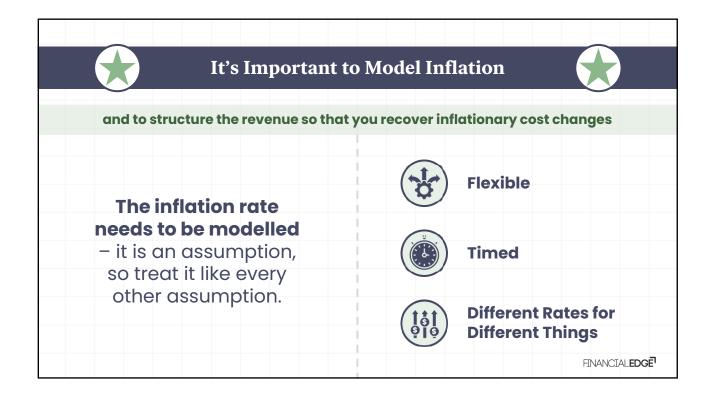


Typically, a gi	iven set of costs from an ex	xternal source
1	1 (S)	
Model For Flexibility	Cost Overrun Sensitivities	Change Of Dates
e.g., change of start-date, potential cost overruns	Build-in a % to add to base cost: Base cost* (1+sensitivity %)	Allocate a period's worth of capex to the correct year using a LOOKUP or INDEX formula:
		Eg HLOOKUP (year #, capex table, # of rows down, false)
	1 1	Or use Index / Match to do the same
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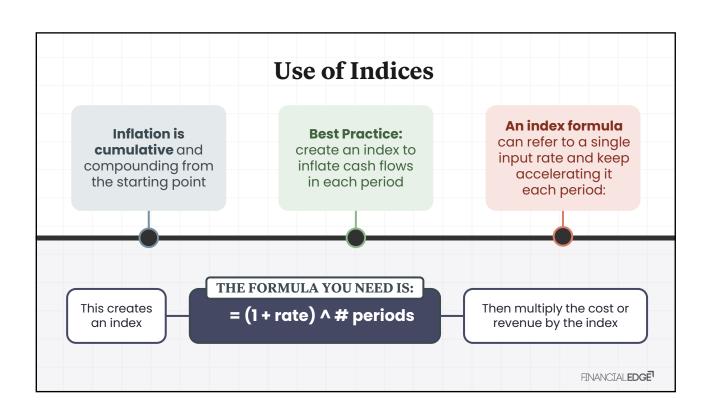


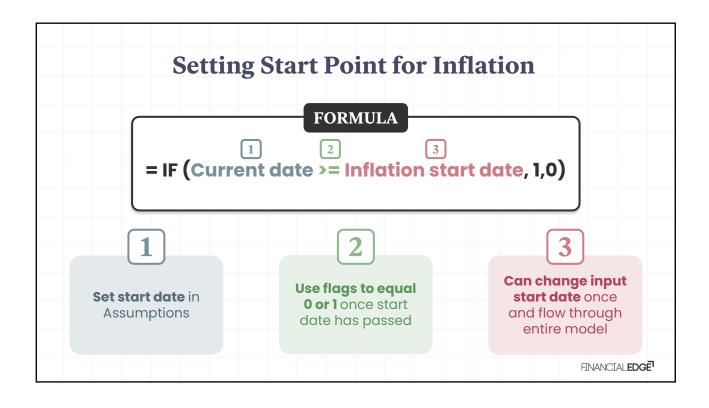




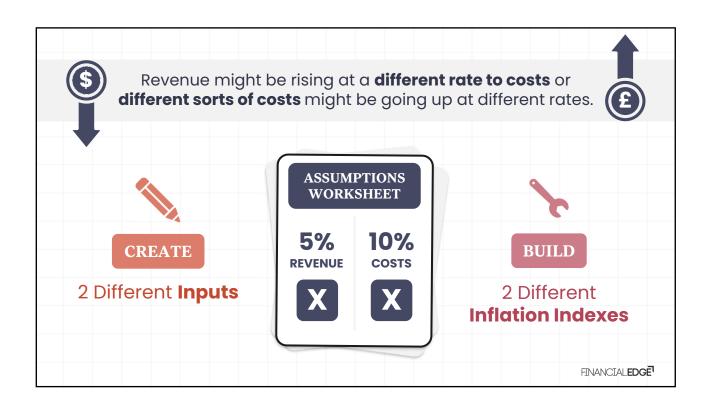


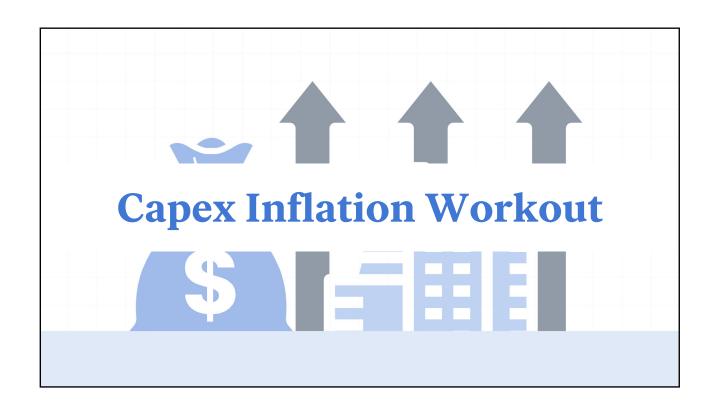














Period Number		1	2	3	4	5	Total
Cash Flow		\$100	\$120	\$110	\$104	\$100	\$534
Inflation Rate pa	5.00%						
Inflation Index		1.050	1.1025	1.1576	1.2155	1.2763	
Inflation-Adjusted Cash Flow		\$105	\$132	\$127	\$127	\$128	\$619
						Diff	16%

		Tiug	g Exar	пріс			
Period End-Date		31/12/21	31/12/22	31/12/23	31/12/24	31/12/25	Total
Cash Flow Before Inflation		\$100	\$100	\$100	\$100	\$100	\$500
Inflation Index		1.05	1.1025	1.157625	1.215506	1.276282	
Inflation Start-Date	31/12/23						
Inflation Flag		0	0	1	1	1	
Inflation-Adjusted Cash Flow		\$100	\$100	\$116	\$122	\$128	\$565
		Fron	n Assump	tions: sinç	gle input		



\mathbf{A}	pply11	ng Mu	ıltiple	e Rate	es		
Period End-Date		31/12/21	31/12/22	31/12/23	31/12/24	31/12/25	Total
Period Number		1	2	3	4	5	
Construction costs before inflation		\$1,000	\$1,200	\$1,100	\$0	\$0	\$3,300
Construction Inflation Rate pa	5.00%						
Construction Inflation Index		1.05	1.1025	1.157625	1.215506	1.276282	
Inflation-Adjusted Construction Costs		\$1,050	\$1,323	\$1,273	\$0	\$0	\$3,646
Maintenance costs before inflation		\$0	\$0	\$100	\$100	\$100	
Maintenance Inflation Rate pa	10.00%						
Maintenance Inflation Index		1.1	1.21	1.331	1.4641	1.61051	
Maintenance Inflation Start-Date	31/12/23						
Maintenance Inflation Flag		0	0	1	1	1	
Inflation-Adjusted Maintenance Costs		\$0	\$0	\$133	\$146	\$161	\$441

Uses cost estimates from 2021, but the project (and the model) only starts in 2023				Must add two years of inflation before the modelled cash flows start				
Period End-Date		31/12/23	31/12/24	31/12/25	31/12/26	31/12/27	Total	
Year Number		1	2	3	4	5		
Cash Flow Before Inflation		\$100	\$100	\$100	\$100	\$100	\$500	
Inflation Index		1.157625	1.215506	1.276282	1.340096	1.407100		
Inflation Rate pa	5.00%							
Inflation Start-Date	31/12/2021							
Years Before Model Start	2.00							
Inflation-Adjusted Cash Flow		\$116	\$112	\$128	\$134	\$141	\$640	
Year#		= (1	+5%) ^ (1	+2)	Years b	efore model	ס	

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