

Appendix -11

Sichuan Tiejue 22MW Hydro Power Project(without expansion)				
Basic Parameters				
Series	General description	Value		Unit
1	Installed capacity	22		MW
2	Net grid-connected electricity generation	95,510		MWh
3	CM of CCPG(tCO ₂ e/MWh)	0.9746		tCO ₂ e/MWh
4	Construction period	2		year
5	Operation period	30		year
6	Grid-in tariff(yuan/kWh, excluding VAT)	0.192RMB/kWh	\$ 0.024/kWh	
7	Assumed Currency Conversion Factor(Dollatr:RMB)	8:1		
	Investment plan			
1	Value of fixed assets	121million yuan	\$ 15,125,000	
2	Interest of long-term loan	7.11%		
3	Payment period of long-term loan	14.4		year
	Tax			
1	VAT	17%		
2	Income tax	33%		
3	Urban maintenance and construction tax	5%		
4	Surtax for education	3%		
	O&M Cost			
	Total O&M cost	3.97Million RMB	\$ 496,250	
	CERs			
1	Annual CERs	93,079		
2	CERs unit price	96yuan/t	\$ 12/t	
3	CERs income	8,935,610	1,116,951	

ONLY THE GREEN CELLS SHALL BE FILLED

PLEASE USE THE AREA AT THE END OF THIS SHEET FOR ADDITIONAL EXPLANATIONS OR DETAILS, IF NECESSARY

Name of Project	Sichuan Tiejue 22MW Hydro Power Project(without expansion)
Country	China

GEN. ASSUMPTIONS

Factor	Com. Prod.	1	TO BE FILLED ONLY WITH 0 (TO EXCLUDE THE COMPONENT) OR WITH 1 (TO INCLUDE THE COMPONENT)
	ERs	0	
	Loan	1	

Expected annual distribution of dividends	0%
Expected return on equity	10%

INVESTMENTS

	Project start-up	1	2	3
Initial Investments (including taxes if any):	\$15,125,000			
Construction Engineering	\$5,919,725	\$2,959,863	\$2,959,863	\$0
Machinery / Equipments	\$3,768,800	\$1,884,400	\$1,884,400	\$0
Furniture & Fittings	\$1,223,075	\$611,538	\$611,538	\$0
Temporary Engineering	\$1,201,300	\$600,650	\$600,650	\$0
Other	\$3,012,100	\$1,399,531	\$1,612,569	\$0

Depretiation Rate	3.06%	100%
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Financing:					
Loan(s) Amount	\$	\$5,110,702	\$5,256,729	\$0	
Tenor	14.4 years				
Grace Period	0 years				
Interest rate	7.11%				

Equity:	\$			
Source 1	\$	\$2,345,279	\$2,412,290	\$0
Source 2	\$	\$0	\$0	\$0
Others	\$	\$0	\$0	\$0

Sources & Uses Control	OK
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O & M COSTS

[illegible]

REVENUES

[illegible]

PLEASE USE THE AREA BELOW FOR ADDITIONAL INFO, IF NECESSARY

NO INPUT REQUIRED IN THIS SPREADSHEET

Name of Project	Sichuan Tiejue 22MW Hydro Power Project(without expansion)
Country	China

INVESTMENTS AND EXPENSES					
Investments					
Expenses					
Total					

	Unit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
Investments:		\$	\$ 47,455,981	\$ 47,689,019	\$ 0																												
Construction Engineering		\$	\$ 2,659,863	\$ 2,659,863	\$ 0																												
Machinery / Equipments		\$	\$ 1,884,400	\$ 1,884,400	\$ 0																												
Furniture & Fixtures		\$	\$ 611,538	\$ 611,538	\$ 0																												
Temporary Engineering		\$	\$ 600,000	\$ 600,000	\$ 0																												
Other		\$	\$ 1,399,531	\$ 1,612,589	\$ 0																												
Depreciation:			\$ 480,825	\$ 480,825	\$ 480,825	\$ 480,825	\$ 480,825	\$ 480,825	\$ 480,825	\$ 480,825	\$ 480,825	\$ 480,825	\$ 480,825	\$ 480,825	\$ 480,825	\$ 480,825	\$ 480,825	\$ 480,825	\$ 480,825	\$ 480,825	\$ 480,825	\$ 480,825	\$ 480,825	\$ 480,825	\$ 480,825	\$ 480,825	\$ 480,825	\$ 480,825	\$ 480,825	\$ 480,825	\$ 480,825	\$ 480,825	
Jan-00	2% per year	\$	\$ 228,163	\$ 228,163	\$ 228,163	\$ 228,163	\$ 228,163	\$ 228,163	\$ 228,163	\$ 228,163	\$ 228,163	\$ 228,163	\$ 228,163	\$ 228,163	\$ 228,163	\$ 228,163	\$ 228,163	\$ 228,163	\$ 228,163	\$ 228,163	\$ 228,163	\$ 228,163	\$ 228,163	\$ 228,163	\$ 228,163	\$ 228,163	\$ 228,163	\$ 228,163	\$ 228,163	\$ 228,163	\$ 228,163	\$ 228,163	
Jan-00	3% per year	\$	\$ 324,672	\$ 324,672	\$ 324,672	\$ 324,672	\$ 324,672	\$ 324,672	\$ 324,672	\$ 324,672	\$ 324,672	\$ 324,672	\$ 324,672	\$ 324,672	\$ 324,672	\$ 324,672	\$ 324,672	\$ 324,672	\$ 324,672	\$ 324,672	\$ 324,672	\$ 324,672	\$ 324,672	\$ 324,672	\$ 324,672	\$ 324,672	\$ 324,672	\$ 324,672	\$ 324,672	\$ 324,672	\$ 324,672	\$ 324,672	
Jan-00	4% per year	\$	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	
Jan-00	5% per year	\$	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	
Jan-00	6% per year	\$	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	
Operating costs:		\$	\$ 0	\$ 480,279	\$ 480,279	\$ 480,279	\$ 480,279	\$ 480,279	\$ 480,279	\$ 480,279	\$ 480,279	\$ 480,279	\$ 480,279	\$ 480,279	\$ 480,279	\$ 480,279	\$ 480,279	\$ 480,279	\$ 480,279	\$ 480,279	\$ 480,279	\$ 480,279	\$ 480,279	\$ 480,279	\$ 480,279	\$ 480,279	\$ 480,279	\$ 480,279	\$ 480,279	\$ 480,279	\$ 480,279	\$ 480,279	
Risk Retained		\$	\$ 0	\$ 116,025	\$ 116,025	\$ 116,025	\$ 116,025	\$ 116,025	\$ 116,025	\$ 116,025	\$ 116,025	\$ 116,025	\$ 116,025	\$ 116,025	\$ 116,025	\$ 116,025	\$ 116,025	\$ 116,025	\$ 116,025	\$ 116,025	\$ 116,025	\$ 116,025	\$ 116,025	\$ 116,025	\$ 116,025	\$ 116,025	\$ 116,025	\$ 116,025	\$ 116,025	\$ 116,025	\$ 116,025	\$ 116,025	
Reservior maintenance		\$	\$ 0	\$ 116,025	\$ 116,025	\$ 116,025	\$ 116,025	\$ 116,025	\$ 116,025	\$ 116,025	\$ 116,025	\$ 116,025	\$ 116,025	\$ 116,025	\$ 116,025	\$ 116,025	\$ 116,025	\$ 116,025	\$ 116,025	\$ 116,025	\$ 116,025	\$ 116,025	\$ 116,025	\$ 116,025	\$ 116,025	\$ 116,025	\$ 116,025	\$ 116,025	\$ 116,025	\$ 116,025	\$ 116,025	\$ 116,025	
Labor		\$	\$ 77,000	\$ 77,000	\$ 77,000	\$ 77,000	\$ 77,000	\$ 77,000	\$ 77,000	\$ 77,000	\$ 77,000	\$ 77,000	\$ 77,000	\$ 77,000	\$ 77,000	\$ 77,000	\$ 77,000	\$ 77,000	\$ 77,000	\$ 77,000	\$ 77,000	\$ 77,000	\$ 77,000	\$ 77,000	\$ 77,000	\$ 77,000	\$ 77,000	\$ 77,000	\$ 77,000	\$ 77,000	\$ 77,000	\$ 77,000	
Repairs		\$	\$ 120,875	\$ 120,875	\$ 120,875	\$ 120,875	\$ 120,875	\$ 120,875	\$ 120,875	\$ 120,875	\$ 120,875	\$ 120,875	\$ 120,875	\$ 120,875	\$ 120,875	\$ 120,875	\$ 120,875	\$ 120,875	\$ 120,875	\$ 120,875	\$ 120,875	\$ 120,875	\$ 120,875	\$ 120,875	\$ 120,875	\$ 120,875	\$ 120,875	\$ 120,875	\$ 120,875	\$ 120,875	\$ 120,875	\$ 120,875	
Selling Expenses		\$	\$ 331,174	\$ 331,174	\$ 331,174	\$ 331,174	\$ 331,174	\$ 331,174	\$ 331,174	\$ 331,174	\$ 331,174	\$ 331,174	\$ 331,174	\$ 331,174	\$ 331,174	\$ 331,174	\$ 331,174	\$ 331,174	\$ 331,174	\$ 331,174	\$ 331,174	\$ 331,174	\$ 331,174	\$ 331,174	\$ 331,174	\$ 331,174	\$ 331,174	\$ 331,174	\$ 331,174	\$ 331,174	\$ 331,174	\$ 331,174	
Other Source		\$	\$ 54,000	\$ 54,000	\$ 54,000	\$ 54,000	\$ 54,000	\$ 54,000	\$ 54,000	\$ 54,000	\$ 54,000	\$ 54,000	\$ 54,000	\$ 54,000	\$ 54,000	\$ 54,000	\$ 54,000	\$ 54,000	\$ 54,000	\$ 54,000	\$ 54,000	\$ 54,000	\$ 54,000	\$ 54,000	\$ 54,000	\$ 54,000	\$ 54,000	\$ 54,000	\$ 54,000	\$ 54,000	\$ 54,000		
Other		\$	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000		
Insurance:	0% of investments	\$	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	
Certifications:		\$	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	
Financing:		\$	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	
CPILTD	\$134,818	\$171,981	\$171,981	\$171,981	\$171,981	\$171,981	\$171,981	\$171,981	\$171,981	\$171,981	\$171,981	\$171,981	\$171,981	\$171,981	\$171,981	\$171,981	\$171,981	\$171,981	\$171,981	\$171,981	\$171,981	\$171,981	\$171,981	\$171,981	\$171,981	\$171,981	\$171,981	\$171,981	\$171,981	\$171,981	\$171,981	\$171,981	
Interest	\$	\$363,371	\$711,850	\$650,701	\$650,701	\$650,701	\$650,701	\$650,701	\$650,701	\$650,701	\$650,701	\$650,701	\$650,701	\$650,701	\$650,701	\$650,701	\$650,701	\$650,701	\$650,701	\$650,701	\$650,701	\$650,701	\$650,701	\$650,701	\$650,701	\$650,701	\$650,701	\$650,701	\$650,701	\$650,701	\$650,701	\$650,701	
Amount Tantor	14 years	\$	\$5,119,702	\$5,256,729	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Grace Period Interest rate:	0 years																																
CPILTD	\$363,371	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	
Interest	\$363,371	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	
CPILTD	\$363,371	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	
Interest	\$363,371	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	
CPILTD	\$363,371	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	
Interest	\$363,371	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	
CPILTD	\$363,371	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	
Interest	\$363,371	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	
CPILTD	\$363,371	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	
Interest	\$363,371	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	
CPILTD	\$363,371	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$364,910	\$													

REVENUES

[illegible]

NO INPUT REQUIRED IN THIS SPREADSHEET

Name of Project	Sichuan Tiejue 22MW Hydro Power Project(without expansion)
Country	China

Project Cashflow

[illegible]