

Appendix -12

Sichuan Tiejue 25MW Hydro Power Project(without additional cost for expansion)				
Basic Parameters				
Series	General description	Value		Unit
1	Installed capacity	25		MW
2	Net grid-connected electricity generation	103,830		MWh
3	CM of CC PG(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	3,989,353	\$ 498,670	
1	Raw Material	125,000	\$ 15,625	
2	Reservior maintenance	108,157	\$ 13,525	
3	Labor	616,000	\$ 77,000	
4	Repairs	1,836,450	\$ 229,554	
5	Selling Expenses	271,121	\$ 33,890	
6	Water Source	432,626	\$ 54,080	
7	Other	600,000	\$ 75,000	
	CERs			
1	Annual CERs	101,188		
2	CERs unit price	96yuan/t	\$ 12/t	
3	CERs income	9,714,003	1,214,250	

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 25MW Hydro Power Project(without additional cost for expansion)	
Country	China	

GEN. ASSUMPTIONS

Factor	Com. Prod. ERs Loan	1 0 1	TO BE FILLED ONLY WITH 0 (TO EXCLUDE THE COMPONENT) OR WITH 1 (TO INCLUDE THE COMPONENT)
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	\$5,919,729	\$2,959,863	\$2,959,863	\$0
Machinery / Equipments	\$1,894,400	\$1,894,400		\$0
Furniture & Fittings	\$1,223,075	\$611,538	\$611,538	\$0
Temporary Engineering	\$1,201,300	\$600,650	\$600,650	\$0
Other	\$3,915,100	\$1,957,551	\$1,957,551	\$0
Depreciation Rate	3.00%		100%	
Financing:				
Loan(s) Amount	\$	\$5,116,702	\$5,298,729	\$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			

O & M COSTS

Project start-up		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
Operating costs (including taxes if any):		\$																															
Raw Material	\$	\$0	\$0	\$15,625	\$15,625	\$15,625	\$15,625	\$15,625	\$15,625	\$15,625	\$15,625	\$15,625	\$15,625	\$15,625	\$15,625	\$15,625	\$15,625	\$15,625	\$15,625	\$15,625	\$15,625	\$15,625	\$15,625	\$15,625	\$15,625	\$15,625	\$15,625	\$15,625	\$15,625	\$15,625	\$15,625	\$15,625	
Reservoir maintenance	\$	\$0	\$0	\$13,525	\$13,525	\$13,525	\$13,525	\$13,525	\$13,525	\$13,525	\$13,525	\$13,525	\$13,525	\$13,525	\$13,525	\$13,525	\$13,525	\$13,525	\$13,525	\$13,525	\$13,525	\$13,525	\$13,525	\$13,525	\$13,525	\$13,525	\$13,525	\$13,525	\$13,525	\$13,525	\$13,525	\$13,525	
Labor	\$	\$0	\$0	\$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	\$	\$0	\$0	\$208,875	\$208,875	\$208,875	\$208,875	\$208,875	\$208,875	\$208,875	\$208,875	\$208,875	\$208,875	\$208,875	\$208,875	\$208,875	\$208,875	\$208,875	\$208,875	\$208,875	\$208,875	\$208,875	\$208,875	\$208,875	\$208,875	\$208,875	\$208,875	\$208,875	\$208,875	\$208,875	\$208,875	\$208,875	
Selling Expenses	\$	\$0	\$0	\$33,890	\$33,890	\$33,890	\$33,890	\$33,890	\$33,890	\$33,890	\$33,890	\$33,890	\$33,890	\$33,890	\$33,890	\$33,890	\$33,890	\$33,890	\$33,890	\$33,890	\$33,890	\$33,890	\$33,890	\$33,890	\$33,890	\$33,890	\$33,890	\$33,890	\$33,890	\$33,890	\$33,890	\$33,890	
Water Source	\$	\$0	\$0	\$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	\$	\$0	\$0	\$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:		0.25% of Investments																															
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	\$0	
VAT		17.00%																															
Urban maintenance and construction tax		5.00%																															
Surtax for education		3.00%																															
Income Tax:		33.00%																															
Carbon costs:	\$																																
Baseline Study, Monitoring Plan	\$0																																
Validation	\$0																																
Due diligence by WB / CF Unit	\$0																																
Annual Verification	\$0																																

REVENUES

		Start-up	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
Net Revenues																																		
100%																																		
Net Revenues - 1st Product																																		
Production	(Unit)	0	0	103830000	103830000	103830000	103830000	103830000	103830000	103830000	103830000	103830000	103830000	103830000	103830000	103830000	103830000	103830000	103830000	103830000	103830000	103830000	103830000	103830000	103830000	103830000	103830000	103830000	103830000	103830000	103830000	103830000	103830000	
Net Sales Price	\$	\$0	\$0	\$0.02	\$0.02	\$0.02	\$0.02	\$0.02	\$0.02	\$0.02	\$0.02	\$0.02	\$0.02	\$0.02	\$0.02	\$0.02	\$0.02	\$0.02	\$0.02	\$0.02	\$0.02	\$0.02	\$0.02	\$0.02	\$0.02	\$0.02	\$0.02	\$0.02	\$0.02	\$0.02	\$0.02	\$0.02	\$0.02	
Net Revenues - 2nd Product																																		
Production	(Unit)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Net Sales Price	\$	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Net Revenues - Other Product																																		
Production	(Unit)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Net Sales Price	\$	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Net Revenues - Carbon Credits																																		
Carbon generation	(tCO2e)	0	0	101,188	101,188	101,188	101,188	101,188	101,188	101,188	101,188	101,188	101,188	101,188	101,188	101,188	101,188	101,188	101,188	101,188	101,188	101,188	101,188	101,188	101,188	101,188	101,188	101,188	101,188	101,188	101,188	101,188	101,188	
Carbon price	\$12.00 tCO2e																																	
Extraordinary Net Revenues	\$	\$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	\$0	\$0	

PLEASE USE THE AREA BELOW FOR ADDITIONAL INFO, IF NECESSARY

NO INPUT REQUIRED IN THIS SPREADSHEET

Name of Project	Sichuan Tiejue 25MW Hydro Power Project(without additional cost for expansion)
Country	China

INVESTMENTS AND EXPENSES

[illegible]

REVENUES

	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	
Net Revenues		\$0	\$0	\$3,766,170	\$3,766,170	\$3,766,170	\$3,766,170	\$3,766,170	\$3,766,170	\$3,766,170	\$3,766,170	\$3,766,170	\$3,766,170	\$3,766,170	\$3,766,170	\$3,766,170	\$3,766,170	\$3,766,170	\$3,766,170	\$3,766,170	\$3,766,170	\$3,766,170	\$3,766,170	\$3,766,170	\$3,766,170	\$3,766,170	\$3,766,170	\$3,766,170	\$3,766,170	\$3,766,170	\$3,766,170	\$3,766,170	\$3,766,170	
production		\$0	\$0	\$3,766,170	\$3,766,170	\$3,766,170	\$3,766,170	\$3,766,170	\$3,766,170	\$3,766,170	\$3,766,170	\$3,766,170	\$3,766,170	\$3,766,170	\$3,766,170	\$3,766,170	\$3,766,170	\$3,766,170	\$3,766,170	\$3,766,170	\$3,766,170	\$3,766,170	\$3,766,170	\$3,766,170	\$3,766,170	\$3,766,170	\$3,766,170	\$3,766,170	\$3,766,170	\$3,766,170	\$3,766,170	\$3,766,170	\$3,766,170	
Net Revenues - 1st Product		\$0	\$0	\$2,491,920	\$2,491,920	\$2,491,920	\$2,491,920	\$2,491,920	\$2,491,920	\$2,491,920	\$2,491,920	\$2,491,920	\$2,491,920	\$2,491,920	\$2,491,920	\$2,491,920	\$2,491,920	\$2,491,920	\$2,491,920	\$2,491,920	\$2,491,920	\$2,491,920	\$2,491,920	\$2,491,920	\$2,491,920	\$2,491,920	\$2,491,920	\$2,491,920	\$2,491,920	\$2,491,920	\$2,491,920	\$2,491,920	\$2,491,920	
Carbon price	(\$/t)	\$0	\$0	\$120.00	\$120.00	\$120.00	\$120.00	\$120.00	\$120.00	\$120.00	\$120.00	\$120.00	\$120.00	\$120.00	\$120.00	\$120.00	\$120.00	\$120.00	\$120.00	\$120.00	\$120.00	\$120.00	\$120.00	\$120.00	\$120.00	\$120.00	\$120.00	\$120.00	\$120.00	\$120.00	\$120.00	\$120.00	\$120.00	
Sales price	\$/t	\$0	\$0	\$0.024	\$0.024	\$0.024	\$0.024	\$0.024	\$0.024	\$0.024	\$0.024	\$0.024	\$0.024	\$0.024	\$0.024	\$0.024	\$0.024	\$0.024	\$0.024	\$0.024	\$0.024	\$0.024	\$0.024	\$0.024	\$0.024	\$0.024	\$0.024	\$0.024	\$0.024	\$0.024	\$0.024	\$0.024	\$0.024	
Net Revenues - 2nd Product		\$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	\$0	\$0	
production	(t/HR)	\$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	\$0	\$0	
Sales price	\$/t	\$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	\$0	\$0	
Net Revenues - Other Product		\$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	\$0	\$0	\$0
production	(t/HR)	\$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	\$0	\$0	\$0
Sales price	\$/t	\$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	\$0	\$0	\$0
Net Revenues - Carbon Credits		\$0	\$0	\$1,214,250	\$1,214,250	\$1,214,250	\$1,214,250	\$1,214,250	\$1,214,250	\$1,214,250	\$1,214,250	\$1,214,250	\$1,214,250	\$1,214,250	\$1,214,250	\$1,214,250	\$1,214,250	\$1,214,250	\$1,214,250	\$1,214,250	\$1,214,250	\$1,214,250	\$1,214,250	\$1,214,250	\$1,214,250	\$1,214,250	\$1,214,250	\$1,214,250	\$1,214,250	\$1,214,250	\$1,214,250	\$1,214,250	\$1,214,250	\$1,214,250
Carbon generation	(t/CCO2)	0	0	0	101,188	101,188	101,188	101,188	101,188	101,188	101,188	101,188	101,188	101,188	101,188	101,188	101,188	101,188	101,188	101,188	101,188	101,188	101,188	101,188	101,188	101,188	101,188	101,188	101,188	101,188	101,188	101,188	101,188	101,188
Carbon price	(\$/t)	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	0	0	
Extraordinary Net Revenues		\$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	\$0	\$0	

NO INPUT REQUIRED IN THIS SPREADSHEET

Name of Project	Sichuan Tiejue 25MW Hydro Power Project(without additional cost for expansion)
Country	China

Project Cashflow

[illegible]