

招商银行全资附属机构 A Wholly Owned Subsidiary Of China Merchants Bank

# **Huadian Fuxin (816 HK)**

## Disappointed earnings on asset provision

HDFX's FY19 earnings surprisingly down 5.3% YoY, 22.3% lower than our estimates. Earnings miss was driven by asset provision of ~RMB790mn from gas distributed projects and wind projects. Market will be disappointed to FY19 earnings, while staying curious for whether HDFX will choose to go private at such a distressed valuation. Mgmt. didn't respond to that directly, but leave all the options on the table depending on parent co.'s decision. **Given extremely low valuation, we maintain BUY rating.** 

- Surprising asset provision. HDFX realized revenue of RMB19,776mn, up 7.9% YoY. Repair and maintenance and personnel costs increased 23.2% and 14.5% YoY, while administration expense declined 12.8%, offseting some costs increment. Other operating expenses came with surprise with a surge of 135.1% to RMB1,850mn, increased RMB1bn over FY18's figure. Mgmt. disclosed it was due to asset provision of ~RMB790mn for 1) unprofitable gas distributed projects; 2) low efficient wind farm projects; and 3) some new wind farms subject to environmental constraints need to be relocated. Net profit, as a result devoured by those provision, was only RMB1,887mn, down 5.3% YoY, and 22.3% lower than our estimates.
- Coal-fired power turned around. The segment experienced significant improvement in FY19, as segment operating profit surged 355.6% YoY to RMB757. Strong profit rebound was supported by coal costs decline, as we estimated unit coal fuel costs declined by 15.3% YoY. Given stable coal price outlook in 2020, we expect coal power segment to maintain stable performance while utilization hours may be squeezed due to COVID-19.
- **Hydro power resumed normal.** Utilization hours rebounded from multi-year low of 2,311 in FY18 to 3,631 in FY19. Operating profit, as a result, rebounded 250% to RMB1,120mn. For 2020, mgmt. expect hydro power segment to have stable hydro output as usual year with an output target of 9.2TWh.
- Sanmen nuclear recorded loss. Nuclear investment return suffered a drag as Sanmen Nuclear Unit 2# experienced outage throughout most of the year. Sanmen nuclear brought a loss of ~RMB100mn to HDFX, which reduced overall share profit by 14.8% to RMB801mn. Fortunately, The outage was fixed by Dec 2019, and we expect HDFX's nuclear investment profit to have significant growth in 2020. (more segment info on page 2)

### **Earnings Summary**

(YE 31 Dec)	FY18A	FY19A	FY20E	FY21E	FY22E
Revenue (RMB mn)	18,330	19,776	20,461	25,303	26,697
YoY growth (%)	9.02	7.89	3.46	23.67	5.51
Net income (RMB mn)	1,995	1,887	2,409	3,164	4,149
EPS (RMB)	0.24	0.22	0.29	0.38	0.49
YoY growth (%)	0.4	-5.4	27.7	31.3	31.1
Consensus EPS (RMB)	N/A	N/A	0.31	0.36	N/A
P/E (x)	4.6	4.9	3.8	2.9	2.2
P/B (x)	0.4	0.41	0.37	0.34	0.30
Yield (%)	5.2	5.0	5.9	7.8	10.2
ROE (%)	9.5	8.4	9.9	11.7	13.6
Net gearing (%)	205.2	172.7	194.4	186.0	167.6

Source: Company data, Bloomberg, CMBIS estimates

### **BUY (Maintain)**

Target Price HK\$1.70 (Previous TP HK\$2.00) Up/Downside +42.9% Current Price HK\$1.19

#### **China Wind Sector**

### Robin Xiao (852) 3900 0849 robinxiao@cmbi.com.hk

Stock Data
Mkt Cap (HK\$ mn)

Source: Bloomberg

Avg 3 mths t/o (HK\$ mn)

Total Issued Shares (mn)

52w High/Low (HK\$)

Shareholding Structure

Huadian Group 62.8% Free float 37.2% Source: HKEx

10,005

11.07

2,570

1.78/1.16

### **Share Performance**

	Absolute	Relative
1-mth	-12.2%	10.5%
3-mth	-22.3%	-0.1%
6-mth	-14.7%	3.1%
12-mth	-29.1%	-4.8%

Source: Bloomberg

### 12-mth Price Performance



Source: Bloomberg

## Auditor: KPMG

### **Related Reports**

- "Huadian Fuxin Energy (816 HK) -Decent FY19E results; but facing cloudy 2020 - 16 Mar 2020
- "Huadian Fuxin Energy (816 HK) -Hydro beat, but nuclear still missed" – 21 Oct 2019
- "Huadian Fuxin Energy (816 HK) -Sluggish nuclear dragged 1H19 earnings" - 27 Aug 2019



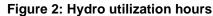
- Wind power was flat in FY19. Other than flat wind power generation, HDFX installed only 91.7MW in 2019, missing the 400-500MW capacity addition guidance. Mgmt. explained the slow addition pace was due to tightened environmental approval from local governments. HDFX intends to accelerate capacity installation in 2020, and maintains overall 1.2GW new build target unchanged. Since COVID-19 had caused significant delay to wind farm project constructions, we believe the Company is now facing risks of project tariff cut if project constructions miss the 31 Dec cut off line.
- Project commissioning plan. Other than 1.2GW wind farm, mgmt. put 1) Shaowu phase III: 2 x 660MW, and 2) Zengcheng Gas Power: 1.2GW on commission list within 2020. According to mgmt., Zengcheng Gas Power will have two units commence operation in May and Jul 2020, and Shaowu Phase III's commission will be subject to NDRC's approval. For Zengcheng Gas Power, the Company expects the project to contribute RMB1bn/RMB50mn revenue/profit in 2020 respectively.
- Cut FY20/21E earnings outlook. Based on FY19 results and more conservative utilization hours outlook due to potential economy impacts due to COVID-19, we cut HDFX's FY20/21E EPS by 19.4%/10.2% to RMB0.29/0.38. We also cut TP from HK\$2.00 to HK\$1.70 based on assumptions update and valuation roll over. Our TP reflects 5.4x FY20E PER. As HDFX is currently trading at extremely low valuation at only 3.8x/0.37x FY20E PER/PBR respectively, we maintain BUY on HDFX.

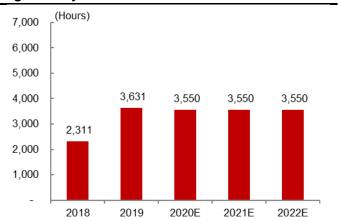
Figure 1: FY19 results summary

(Rmb mn)	2018	1H19	2H19	2019A	yoy change (%)	2019E	Diff (%) Our comments
Revenue	18,330	9,781	9,995	19,776	7.9%	19,712	0.3% In line
Other net income	343	123	200	324	-5.6%	225	43.8% Beat on higher than est. government subsidies
Operating expenses	(13,863)	(6,424)	(8,618)	(15,042)	8.5%	(13,998)	7.5%
Cost of fuel	(5,877)	(2,455)	(2,789)	(5,244)	-10.8%	(5,523)	-5.0% We estimate unit fuel costs declined by 15.3% YoY
Depreciation & amortization	(4,570)	(2,366)	(2,415)	(4,781)	4.6%	(4,640)	3.0%
Service concession construction costs	(80)	(693)	375	(318)	295.4%	(40)	694.6%
Personnel costs	(1,599)	(693)	(1,138)	(1,831)	14.5%	(1,723)	6.3% Employed more people for new projects
Repairs and maintenance	(527)	(247)	(404)	(650)	23.2%	(557)	16.7% Increment mainly from wind and hydro segment
Administration expenses	(422)	(139)	(229)	(368)	-12.8%	(518)	-29.0%
Other operating expenses	(787)	(514)	(1,336)	(1,850)	135.1%	(997)	85.6% Significant assets provision of ~RMB970mn
Operating (loss)/Profit - EBIT	4,809	3,480	1,577	5,057	5.2%	5,939	-14.8%
EBIT margin	26.2%	35.6%	15.8%	25.6%	-0.7ppt	30.1%	4.6ppt
Net Financial expenses	(2,991)	(1,389)	(1,235)	(2,624)	-12.3%	(2,786)	-5.8% Net financial expenses remain in good control
Finance income	82	49	24	74	-10.2%	123	-40.4%
Finance expenses	(3,073)	(1,438)	(1,259)	(2,698)	-12.2%	(2,909)	-7.3%
Share of profit or losses	940	299	501	801	-14.8%	761	5.2% Sanmen Nuclear outage
Profit/(loss) before income tax	2,758	2,390	844	3,234	17.3%	3,914	-17.4%
Income tax expense	(285)	(357)	(185)	(542)	90.2%	(626)	-13.4% Effective tax rate was lower than our estimation
Profit/(Loss) for the period/ year	2,473	2,033	658	2,691	8.8%	3,288	-18.1%
Less: Minority	204	249	26	276	35.0%	400	-31.1%
Perpetual interest distribution	274	236	293	528	92.9%	456	15.9% Perpetual instrument increased to RMB12.6bn
Net profit	1,995	1,548	339	1,887	-5.4%	2,431	-22.4% Earnings missed our est.

Source: Company data, CMBIS estimates

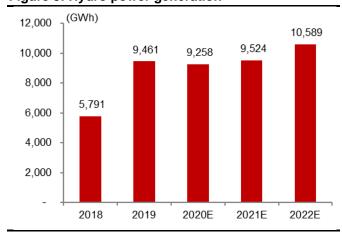






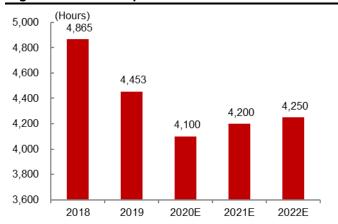
Source: Company data, CMBIS estimates

Figure 3: Hydro power generation



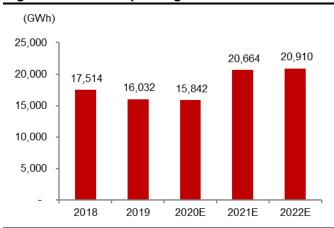
Source: Company data, CMBIS estimates

Figure 4: Coal-fired power utilization hour



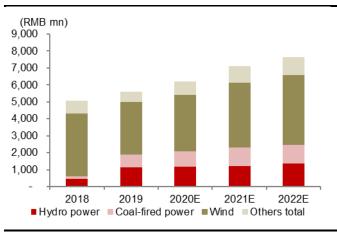
Source: Company data, CMBIS estimates

Figure 5: Coal-fired power generation



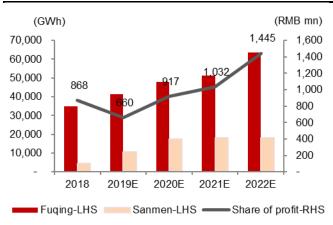
Source: Company data, CMBIS estimates

Figure 6: Segment operating profit contribution



Source: Company data, CMBIS estimates

Figure 7: Power generation and profit contribution from nuclear investments



Source: Company data, CMBIS estimates



Figure 8: Earnings revision

	Old		Nev	1	est. change %			
	2020	2021	2020	2021	2020	2021		
Revenue (RMB mn)	23,101	26,627	20,461	25,303	-11.4%	-5.0%		
Nuclear share profit (RMB mn)	999	1,255	917	1,032	-8.2%	-17.8%		
Net Income (RMB mn)	2,988	3,523	2,409	3,164	-19.4%	-10.2%		
EPS (RMB)	0.36	0.42	0.29	0.38	-19.3%	-10.2%		
LI 3 (KWB)	0.50	0.42	0.29	0.50	-13.376	-10.27		

Consensus est.			diff	
Net income	2,859	3,260	-15.7%	-2.9%
EPS(RMB)	0.31	0.36	-8.4%	4.5%

Source: CMBIS estimates

Figure 9: Our SOTP valuation for HDFX

Segment share value (HK\$)	
Hydro	1.13
Coal-fired	2.32
Wind	5.73
Others	1.56
Corp value	10.74
Less: Net debt	8.56
Perpetual MTN	1.49
Add:Nuclear investment	1.21
Per Share value (HK\$)	1.70
EPS - 2020 (RMB)	0.32
Representing FY20E PER	5.35

Source: CMBIS estimates

Figure 10: WACC assomptions for HDFX's different segments (see next page for segment DCF valuation)

CAPM Assumptions	
Exchange rate (HKD/Rmb)	0.9
Risk free rate	1.6%
Adjusted beta	1.0
Market risk premium	14.4%
Cost of equity	16.0%
Cost of debt	4.7%
Tax rate	25.0%

			Terminal
Segments WACC	Debt/Asset	WACC	Growth
Hydro	35%	11.6%	2%
Coal-fired	75%	6.6%	2%
Wind	75%	6.6%	3%
Other business	75%	6.6%	3%
Nuclear	0%	16.0%	2%

Source: CMBIS estimates



Pigure 11: Our SOTP valuation for HDFX											相 南 惧 A Wholly Owne
			IDEV								
Self   1,308				20235	20245	20255	20265	20275	2028E	2020E	2030E
Dependention											1,486
Tracinate (1.00 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0											557
Increase in IVC	•										0.25
Fine cash flow Ferminal value   1.75	APEX	(1,000)	(1,000)	(1,000)	(400)	(400)	(400)	(400)	(400)	(400)	(400)
Terminal PUREITOA  1 2 3 4 6 50 7 8 9 9 0 100 0	crease in WC	-400.00	-	-	-	-	-	-	-	-	-
Discount factor   1		69	632	(796)	1,175	1,191	1,206	1,223	1,239	1,255	1,272
1											13,503
Discountefore cash flow 62 507 673 775 688 0.22 0.46 0.42 0.57 515 467 Total discounted FCF 8,542 507 673 775 688 624 567 515 467 Total discounted FCF 8,542 507 673 775 688 624 567 515 467 Total discounted FCF 8,542 507 673 775 688 624 567 515 467 Total discounted FCF 8,542 507 673 775 688 624 567 515 467 Total discounted FCF 8,542 507 673 775 688 624 567 515 467 Total discounted FCF 8,542 507 688 624 567 515 467 Total discounted FCF 8,542 507 688 624 567 722 722 722 722 722 722 722 722 722 7	arminal EV/EBITDA	1	2	3	1	5	6	7	ρ	<u> </u>	<b>6.61</b>
Total discounted ECF Equity value per share	iscount factor										0.33
Septis   Part	iscounted free cash flow	62	507	(573)	757	688	624	567	515	467	4,927
Constitute per share -HNO											
Considerated power valuation (Rimbum)											
EBIT	quity value per share -HKD	1.13									
Deprociation   999   999   999   799   799   799   970   970   9	oal-fireed power valuation (Rmb,mn)	2021E	2022E	2023E	2024E	2025E	2026E	2027E	2028E	2029E	2030E
Tax rate	BIT	1,086	1,117	1,149	722	722	722	722	722	722	722
CAPEX (400) (400) (400) (590)	epreciation	999	999	999	979	979	979	979	979	979	979
Increase in WC		25%	25%	125%	25%	25%	25%	25%	25%	25%	25%
Fire cash flow 1,313 1,337 212 930 930 930 930 930 930 930 930 930 930		, ,	, ,	. ,	(590)	(590)	(590)	(590)	(590)	(590)	(590)
Terminal Value   Terminal EVEBITOA		. ,			-	-		-	-	-	-
Terminal EV/EBITDA		1,313	1,337	212	930	930	930	930	930	930	930
1											20,482 12.04
Discount define cash flow   1,232    1,76		1	2	3	4	5	6	7	8	9	10
Total discounted FCF	iscount factor	0.94	0.88	0.82	0.77	0.73	0.68	0.64	0.60	0.56	0.53
Equity value per share         2.09           Equity value per share +HKD         2.32           Wind power valuation (Rmb,mn)         2021E         2022E         2028E         2025E         2028E			1,176	175	720	675	633	593	557	522	11,265
Mind power valuation (Rmb,mn)											
Wind power valuation (Rmb,mn)											
EBIT	quity raise poi oriare Tita										
Depreciation   3,423   3,608   3,792   3,963   4,038   4,361   4,709   5,086   5,433   5,445   1476   1476   1476   1576   1576   1576   1676   1676   177	• • • • • • • • • • • • • • • • • • • •										2030E
Tax rate											5,618
CAPEX per watt 7.5 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0	•										5,933
CAPEX (3.250) (3.250) (3.250) (9.05) (6.106) (6.594) (7.122) (7.891) (8.307) incremental Cost excl depr at 0.077 per watt incremental Cost excluded in											17% 7.0
incremental Cost excl depr at 0.077 per watt 173 399 39 36 16 67 73 79 85 increase in WC (137) (81) (82) (74) (18) (107) (15) (125) (134) (75e each filow 3,338) 3,812 4,232 6,725 1,638 1,547 1,529 1,528 1,520 1.520 1	•										(8,971)
Increase in WC			,		. ,	,	, , ,		,		92
Free cash flow 1 3,338   3,812   4,232   6,725   1,638   1,547   1,529   1,528   1,520   1	·										(145)
Terminal EVEBITDA	ree cash flow	3,338	3,812	4,232	6,725	1,638	1,547	1,529	1,528	1,520	1,503
1	erminal value										42,604
Discount factor   0.94   0.88   0.82   0.77   0.73   0.68   0.64   0.60   0.56	erminal EV/EBITDA										3.69
Discount factor   0.94   0.88   0.82   0.77   0.73   0.68   0.64   0.60   0.56		1	2	3	4	5	6	7	8	9	10
Discounted free cash flow   3,130   3,353   3,490   5,201   1,188   1,052   975   914   853     Total discounted FCF   43,362	iscount factor										0.53
Equity value per share Equity value per share HKD 5.73    Concept	iscounted free cash flow										23,205
Common	otal discounted FCF	43,362									
Others business valuation (Rmb,mn)         2021E         2022E         2023E         2024E         2025E         2026E         2027E         2028E         2029E           Total revenue         7,214         7,685         8,169         9,331         10,063         10,854         11,708         12,631         13,627           EBIT         987         1,054         1,145         1,335         1,441         1,555         1,679         1,813         1,957           Depreciation         1,182         1,246         1,289         1,495         1,612         1,739         1,875         2,022         2,182           Taxrate         15%         15%         115%         15%	quity value per share	5.16									
Total revenue 7,214 7,685 8,169 9,331 10,063 10,854 11,708 12,631 13,627 EBIT 987 1,054 1,145 1,335 1,441 1,555 1,679 1,813 1,957 Depreciation 1,182 1,246 1,289 1,495 1,612 1,739 1,875 2,022 2,182 Tax rate 15% 15% 15% 15% 15% 15% 15% 15% 15% 15%	quity value per share -HKD	5.73									
Total revenue 7,214 7,685 8,169 9,331 10,063 10,854 11,708 12,631 13,627 EBIT 987 1,054 1,145 1,335 1,441 1,555 1,679 1,813 1,957 Depreciation 1,182 1,246 1,289 1,495 1,612 1,739 1,875 2,022 2,182 Tax rate 15% 15% 15% 15% 15% 15% 15% 15% 15% 15%	thers business valuation (Rmb.mn)	2021F	2022F	2023F	2024F	2025F	2026F	2027F	2028F	2029F	2030E
EBIT         987         1,054         1,145         1,335         1,441         1,555         1,679         1,813         1,957           Depreciation         1,182         1,246         1,289         1,495         1,612         1,739         1,875         2,022         2,182           Tax rate         15%         15%         115%         149         149         15%         15%         15%         15%         15%         15%         15%	· · · · · · · · · · · · · · · · · · ·										14,703
Tax rate 15% 15% 15% 115% 15% 15% 15% 15% 15% 15											2,113
CAPEX (2,060) (2,060) (1,000) (2,028) (2,185) (2,355) (2,539) (2,737) (2,952) Increase in WC (335) (71) (73) (174) (110) (119) (128) (138) (149) Free cash flow (374) 11 45 427 542 586 635 687 744 Terminal value  Terminal EV/EBITDA  1 2 3 4 5 6 7 8 9 9 10 10 10 10 10 10 10 10 10 10 10 10 10	epreciation	1,182	1,246	1,289	1,495	1,612	1,739	1,875	2,022	2,182	2,353
Increase in WC (335) (71) (73) (174) (110) (119) (128) (138) (149) Free cash flow (374) 11 45 427 542 586 635 687 744 Terminal value  Terminal EV/EBITDA   1 2 3 4 5 6 7 8 9 Discount factor 0.94 0.88 0.82 0.77 0.73 0.68 0.64 0.60 0.56 Discounted free cash flow (351) 10 37 331 393 399 405 411 417 Total discounted FCF 11,796 Equity value per share 1.40 Equity value per share 1.40 Equity value per share 1.56  Nuclear Investment valuation (Rmb,mn) 2021E 2022E 2023E 2024E 2025E 2026E 2027E 2028E 2029E Share of profit 1,032 1,445 1,504 1,504 1,504 1,504 1,504 1,504 1,504 1,504 Capital injection		15%	15%	115%	15%	15%	15%	15%	15%	15%	15%
Free cash flow (374) 11 45 427 542 586 635 687 744  Terminal value  Terminal EV/EBITDA  1 2 3 4 5 6 7 8 9  Discount factor 0.94 0.88 0.82 0.77 0.73 0.68 0.64 0.60 0.56  Discounted free cash flow (351) 10 37 331 393 399 405 411 417  Total discounted FCF 11,796  Equity value per share 1.40  Equity value per share -HKD 1.56  Nuclear Investment valuation (Rmb,mn) 2021E 2022E 2023E 2024E 2025E 2026E 2027E 2028E 2029E  Share of profit 1,032 1,445 1,504 1,504 1,504 1,504 1,504 1,504 1,504  Capital injection						,		,	,		(3,183)
Terminal value Terminal EV/EBITDA  1 2 3 4 5 6 7 8 9 Discount factor 0.94 0.88 0.82 0.77 0.73 0.68 0.64 0.60 0.56 Discounted free cash flow (351) 10 37 331 393 399 405 411 417 Total discounted FCF 11,796 Equity value per share 1.40 Equity value per share -HKD 1.56  Nuclear Investment valuation (Rmb,mn) 2021E 2022E 2023E 2024E 2025E 2026E 2027E 2028E 2029E Share of profit 1,032 1,445 1,504 1,504 1,504 1,504 1,504 1,504 1,504 1,504 Capital injection		, ,	. ,		. ,	. ,			. ,	. ,	(161)
1   2   3   4   5   6   7   8   9		(374)	11	45	427	542	586	635	687	744	805
1   2   3   4   5   6   7   8   9											17,717 3.97
Discount factor 0.94 0.88 0.82 0.77 0.73 0.68 0.64 0.60 0.56  Discounted free cash flow (351) 10 37 331 393 399 405 411 417  Total discounted FCF 11,796  Equity value per share 1.40  Equity value per share -HKD 1.56  Nuclear Investment valuation (Rmb,mn) 2021E 2022E 2023E 2024E 2025E 2026E 2027E 2028E 2029E  Share of profit 1,032 1,445 1,504 1,504 1,504 1,504 1,504 1,504 1,504 1,504  Capital injection											0.0.
Discounted free cash flow (351) 10 37 331 393 399 405 411 417    Total discounted FCF											10
Total discounted FCF											0.53
Equity value per share 1.40 Equity value per share -HKD 1.56  Nuclear Investment valuation (Rmb,mn) 2021E 2022E 2023E 2024E 2025E 2026E 2027E 2028E 2029E Share of profit 1,032 1,445 1,504 1,50			10	37	331	393	399	405	411	417	9,745
Nuclear Investment valuation (Rmb,mn)         2021E         2022E         2023E         2024E         2025E         2026E         2027E         2028E         2029E           Share of profit         1,032         1,445         1,504 </td <td></td>											
Share of profit 1,032 1,445 1,504 1,											
Share of profit 1,032 1,445 1,504 1,											
Capital injection											2030E
Terminal value	•										1,504
	•	-	-	-	-	-	-	-	-	-	10,157
· · · · · · · · · · · · · · · · · · ·	Turuo	1	2	3	4	5	6	7	8	9	10,137
Discount factor 0.86 0.74 0.64 0.55 0.48 0.41 0.35 0.31 0.26	iscount factor										0.23
Discounted cash flow 890 1,074 965 832 717 619 534 460 397	iscounted cash flow	890	1,074	965	832	717	619	534	460	397	2,653

Equity value per share -HKD Source: CMBIS estimates

Total discounted FCF
Equity value per share

5

9,141 **1.09** 

1.21



## **Financial Summary**

Income statement						Cash flow summary					
YE 31 Dec (RMB mn)	FY18A	FY19A	FY20E	FY21E	FY22E	YE 31 Dec (RMB mn)	FY18A	FY19A	FY20E	FY21E	FY22E
Revenue	18,330	19,776	20,461	25,303	26,697	Net income	1,995	1,887	2,409	3,164	4,149
Hydro	1,693	2,704	2,646	2,721	3,022	D&A	4,759	4,932	5,297	6,080	6,378
Coal-fired	6,116	6,023	5,710	7,330	7,413	Change in working capital	(821)	(2,378)	(2,694)	(2,007)	564
Wind	7,083	6,902	7,082	7,995	8,534	Others	374	644	(229)	(207)	(267)
Others	3,437	4,148	5,023	7,257	7,728	Cash flow from operation	6,306	5,085	4,784	7,029	10,824
Cost of sales	(10,975)	(10,676)	(11,647)	(15,210)	(15,907)						
Gross profit	7,355	9,100	8,814	10,093	10,789	Capex	(4,558)	(6,016)	(14,305	(6,789)	(6,792)
						Associated companies	(795)	(1,082)	(1,785)	(1,648)	(1,970)
Other income, net	343	324	290	290	290	Other	-	-	-	-	-
Admin expense	(422)	(368)	(415)	(512)	(540)	Cash flow from investment	(5,352)	(7,098)	(16,091	(8,437)	(8,762)
Personnel costs	(1,599)	(1,831)	(2,291)	(2,449)	(2,612)						
Other expenses	(867)	(2,168)	(912)	(1,115)	(1,173)	Equity raised	5,104	3,595	-	-	-
EBIT	4,809	5,057	5,486	6,308	6,754	Change of Debts	(4,132)	(2,235)	10,986	2,663	(666)
						Dividend paid	(467)	(478)	(454)	(542)	(712)
Finance costs, net	(2,991)	(2,624)	(2,744)	(3,018)	(3,055)	Others	4	244	165	173	181
JVs & associates	940	801	1,053	1,209	1,649	Cash flow from financing	508	1,127	10,696	2,294	(1,196)
Exceptional	-	-	-	-	-	_					
Pre-tax profit	2,758	3,234	3,795	4,499	5,349	Net change in cash	1,462	(886)	(610)	886	865
-						Cash at the beginning of the year	2,122	3,598	2,655	2,045	2,931
Income tax	(285)	(542)	(512)	(652)	(829)	Exchange difference	14	(56)	-	-	-
Minority interests	(204)	(276)	(359)	(337)	(346)	Cash at the end of the year	3,598	2,655	2,045	2,931	3,796
Perpetual int distribution	(274)	(528)	(514)	(346)	(25)	Pledged cash	6	22	26	25	26
Net profit	1,995	1,887	2,409	3,164	4,149	Cash at balance sheet	3,604	2,480	2,071	2,956	3,822

Balance sheet						Key ratios					
YE 31 Dec (RMB mn)	FY18A	FY19A	FY20E	FY21E	FY22E	YE 31 Dec	FY18A	FY19A	FY20E	FY21E	FY22E
Non-current assets	96,146	98,652	109,720	112,376	115,085	Sales mix (%)					
Fixed asset	80,930	81,929	90,823	91,556	91,996	Hydro	9.2	13.7	12.9	10.8	11.3
Prepaid lease payments	1,428	-	-	-	-	Coal-fired	33.4	30.5	27.9	29.0	27.8
Interest in joint ventures	8,985	10,066	11,852	13,500	15,470	Wind	38.6	34.9	34.6	31.6	32.0
Other non-current assets	4,805	6,657	7,045	7,319	7,619	Others	18.8	21.0	24.5	28.7	28.9
						Total	100.0	100.0	100.0	100.0	100.0
Current assets	12,157	13,559	16,042	18,724	19,126	Profit & loss ratios (%)					
Cash	3,604	2,480	2,071	2,956	3,822	Gross margin	42.0	47.7	44.5	41.0	41.5
Account receivable	5,970	9,515	11,666	13,430	12,936	Pre-tax margin	15.0	16.4	18.5	17.8	20.0
Prepayments	2,154	1,281	1,914	1,925	1,931	Net margin	10.9	9.5	11.8	12.5	15.5
Other current assets	430	282	391	413	437	Effective tax rate	10.3	16.8	13.5	14.5	15.5
						Balance sheet ratios					
Current liabilities	19,345	22,275	24,446	24,797	24,758	Current ratio (x)	0.6	0.6	0.7	0.8	0.8
Trade and other payable	1,104	1,449	1,432	1,771	1,869	Quick ratio (x)	0.6	0.6	0.6	0.7	0.8
Other payables	7,220	7,037	7,250	6,697	6,697	Cash ratio (x)	0.2	0.1	0.1	0.1	0.2
Borrowings	10,868	13,579	15,533	16,092	15,952	Inventory turnover days	8.2	5.2	6.9	5.8	5.8
Others	153	209	231	237	240	Debtors turnover days	118.9	175.6	208.1	193.7	176.9
						Creditor turnover days	37.9	51.1	46.0	43.3	43.7
Non-current liabilities	55,857	51,585	60,845	63,037	62,569	Total debt / equity ratio (%)	2.0	1.6	1.8	1.8	1.6
Borrowings	54,096	49,466	58,435	60,537	60,011	Net debt / equity ratio (%)	205.2	172.7	194.4	186.0	167.6
Obligation under financial lease	291	-	-	-	-	Returns (%)					
Others non-current assets	1,470	2,118	2,410	2,500	2,558	ROE	9.5	8.4	9.9	11.7	13.6
						ROA	1.8	1.7	1.9	2.4	3.1
Minority Interest	3,047	3,291	3,455	3,628	3,809	Per share					
Perpetual Instrument	8,970	12,567	12,567	12,567	12,567	EPS (RMB)	0.24	0.22	0.29	0.38	0.49
Shareholders' equity	21,086	22,494	24,449	27,071	30,508	DPS (RMB)	0.06	0.05	0.06	0.08	0.11
Total equity	33,102	38,351	40,471	43,266	46,884	BVPS (RMB)	2.51	2.68	2.91	3.22	3.63

Source: Company data, CMBIS estimates



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