CMB International Securities | Equity Research | Company Update

# BYD (002594 CH)

## Expect high growth of NEV in 2H20E

**BYD announced its 1H20 results.** 1H20 top-line dropped by 3% YoY to RMB60.5bn while NP increased by 14% YoY to RMB1.7bn, implying 2Q20 bottom-line recorded a YoY increase of 120%. We think 1H20 results were excellent on stronger-than-expected auto segment performance and mask business from BYDE. The Company guided bottom-line growth of 850%-1017% YoY in 3Q20E, implying the good momentum to sustain in 2H20. We revised up FY20-22E EPS by 114%/53%/43% to reflect the strong earnings rebound. TP is lifted slightly to RMB113.09. Maintain BUY.

- 1H20 excellent results. In 1H20, revenue from auto and related products decreased by 6% YoY to RMB32.0bn, whereas revenue from handset components and assembly services remained flat at RMB23.3bn. GPM from auto and related products increased by 0.7ppt to 23.93% while GPM from HCAS business increased by 5.0ppt to 13.6%. Revenue from rechargeable batteries and photovoltaic increased 8% YoY to RMB4.8bn, whereas revenue from other businesses decreased by 39% YoY to RMB260mn.
- Strong 2Q20 results were supported by BYD's mask business under BYDE (285 HK). It can be partially confirmed as the GPM for HCAS increased by 5ppt. In 1H20, operating cash inflow was RMB15.5bn with an OCF/Core profit ratio of 5.2. Advance receipt of good/service increased by RMB3.7bn compared with the beginning of the year, partially reflecting strong order on hand. One notable item was that BYD has a total of RMB658mn asset impairment (AR /inventory/ Intangible asset, etc.). We believe BYD was flashing out all historical burdens under the disguise of COVID-19, which will provide a healthier balance sheet in the future.
- Auto segment beat our expectations in 1H20. Given sales volume slashed in 1H20, the auto segment achieved revenue of RMB32bn in 1H20 with a decrease of only 6% YoY. Even though sales volume fell by 30.4% YoY in 1H20, the unit revenue increased by 36% YoY to RMB202K, and GPM from auto sales also increased by 0.7ppt YoY to 23.9%. We believe it was mainly driven by higher proportion (+2ppt YoY) of CV sales within the NEV segment in 1H20, and that comes from strong NEV bus delivery with higher ASP both in the domestic market and abroad.

### **Earnings Summary**

(YE 31 Dec)	FY18A	FY19A	FY20E	FY21E	FY22E
Revenue (RMB mn)	130,055	127,739	165,758	208,809	283,124
YoY growth (%)	22.79%	-1.78%	29.76%	25.97%	35.59%
Net income (RMB mn)	2,780	1,614	4,171	4,632	10,310
EPS (RMB)	0.93	0.50	1.43	1.60	3.68
YoY growth (%)	-34%	-47%	188%	12%	130%
Consensus EPS(RMB)	N/A	N/A	1.05	1.20	1.65
P/E (x)	91.23	170.94	59.36	53.09	23.08
P/B (x)	4.20	4.09	3.78	3.50	2.98
Yield (%)	0.24%	0.07%	0.18%	0.20%	0.44%
ROE (%)	5.05%	2.88%	7.06%	7.26%	14.31%
Net gearing (%)	64%	79%	91%	83%	78%

Source: Company data, Bloomberg, CMBIS estimates



## **BUY (Maintain)**

Target Price	RMB113.09
(Previous TP	RMB112.12)
Up/Downside	+33.0%
Current Price	RMB85.00

### **China NEV Sector**

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### Stock Data

Mkt Cap (RMB mn)	216,484
Avg 3 mths t/o (RMB mn)	2,084
52-week high/low	97.84/42.27
Total Issued Shares (mn)	915 (H)
	1,813 (A)

Source: Bloomberg

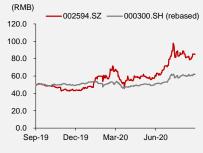
#### **Shareholding Structure**

0	
Wang Chuanfu	18.83%
Lv Xiangyang	8.77%
Bershire Hathaway Energy	8.25%
Source: Company announcement	

### Share Performance

	Absolute	Relative
1-mth	-0.4%	-2.9%
3-mth	43.4%	18.2%
6-mth	30.1%	6.5%
Source: Bloomberg	1	

### 12-mth Price Performance



Source: Wind

### Auditor: Ernst & Young

### **Related Report**

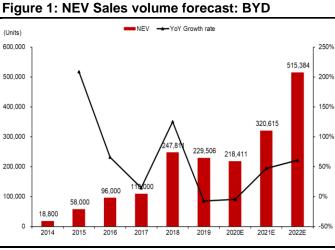
"BYD (1211 HK) – Hidden giant in the cave" – 23 Jul 2020



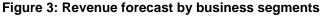
- Auto sales to have further rebound in 2H20E. Led by strong sales from "Song Pro", ICE sales grew by 13% YoY, while the magnitude of NEV decline narrowed to 9% YoY in Jul. Looking ahead to 2H20E, supported by strong consumer demand for "Han", we expect PV sales to have a significant rebound. Mgmt. disclosed Han had accumulated order backlog of 300k, while BYD is ramping up capacity with bottleneck from blade battery supply. BYD guided 4k/6k/8k shipment capability for Han EV in Aug/Sep/Oct and thereafter. Furthermore, due to the gradual rise in the proportion of Han, we expect that the ASP of NEPV for 2020E will increase by 18% YoY to RMB196K. Along with the recovery of overall China's NEV market (both to B/to C business), we expect BYD's NEPV sales volume to increase by 74% YoY in 2H20E.
- BYDE to become a major supplier of Apple for iPad/iWatch. Benefited from the 1) orders ramp up from its major customers (Apple/Xiaomi); 2) the increase in shipments of high-margin smartphones and tablets; 3) the shipment of glass and ceramic products, BYDE is entering into a high growth stage. The new smart products (drone/electronic cigarettes) will bring incremental revenue.
- Valuation is largely unchanged. Based on 1H20 operating updates, we revise BYD's FY20-22E EPS up by 114%/53%/43% mainly on 1) more optimistic auto sales for higher volume and ASP, 2) strong HCIS earnings growth in the near-term and 3) we trim down cloud rail's contribution on more conservative assumption. We raise our NEV segment valuation to reflect the strong NEV sales forecast supported by Han and new PHEV products with DM4.0 in 2021E. In the meanwhile, we revised down our cloud rail valuation to reflect the possible contact delay affected by the COVID-19 situation in Brazil. CMBI TMT team (Alex Ng) has raised THE valuation forecast for BYDE (285 HK) on 31 Aug 2020. We directly take CMBI valuation on BYDE to be consistent. Based on the SOTP method, we derive BYD's overall value at RMB363.0bn in 2021E. Our TP for BYD-A is lifted slightly to RMB113.09, reflecting 79.0/70.6x FY20/21E PER. Reiterate BUY rating.

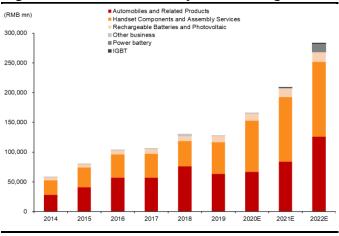


## **Focus chart**



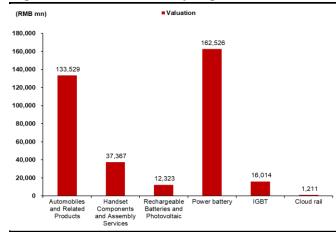
### Source: Company data, CMBIS estimates





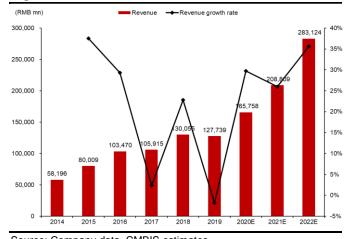
Source: Company data, CMBIS estimates

## Figure 5: SOTP Valuation by segment in 2021E



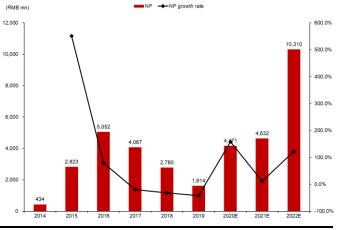
Source: Company data, CMBIS estimates

### Figure 2: Revenue forecast



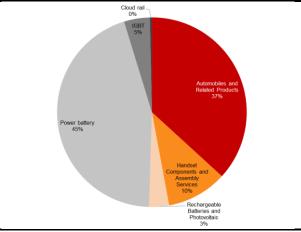
### Source: Company data, CMBIS estimates

### Figure 4: Bottom-line forecast



Source: Company data, CMBIS estimates

### Figure 6: Valuation by business segments



Source: Company data, CMBIS estimates



## **Earnings Revision**

## Figure 7: Earnings revision

(RMB mn)	New	New		k k	Change (%)	
	FY20E	FY21E	FY20E	FY21E	FY20E	FY21E
Revenue	165,758	208,809	148,901	190,449	11%	10%
Gross profit	27,979	33,131	22,921	28,892	22%	15%
Operating profit	5,820	6,709	2,764	4,445	111%	51%
Net profit	4,171	4,632	2,087	3,112	100%	49%
EPS (RMB)	1.43	1.60	0.67	1.04	114%	53%
GPM	16.88%	15.87%	15.39%	15.17%	1.5 ppt	0.7 ppt
OPM	3.51%	3.21%	1.86%	2.33%	1.7 ppt	0.9 ppt
NPM	2.52%	2.22%	1.40%	1.63%	1.1 ppt	0.6 ppt

Source: CMBIS estimates

## Figure 8: CMBIS estimates vs consensus

(DMD mm)	CMB	CMBIS		nsus	Diff (%)	
(RMB mn)	FY20E	FY21E	FY20E	FY21E	FY20E	FY21E
Revenue	165,758	208,809	138,018	160,339	20%	30%
Gross profit	27,979	33,131	22,806	25,909	23%	28%
Operating profit	5,820	6,709	3,653	4,432	59%	51%
Net profit	4,171	4,632	2,738	3,230	52%	43%
EPS (RMB)	1.43	1.60	1.02	1.19	40%	35%
GPM	16.88%	15.87%	16.52%	16.16%	0.4 ppt	-0.3 ppt
OPM	3.51%	3.21%	2.65%	2.76%	0.9 ppt	0.4 ppt
NPM	2.52%	2.22%	1.98%	2.01%	0.5 ppt	0.2 ppt

Source: Bloomberg, CMBIS estimates

## Figure 9: Revenue breakdown

(RMB mn)	FY18A	FY19A	FY20E	FY21E	FY22E
Automobiles and Related Products	76,007	63,266	66,457	83,563	125,690
ҮоҮ	34%	-17%	5%	26%	50%
Handset Components and Assembly Services	42,230	53,380	86,049	108,851	125,832
YoY	4%	26%	61%	27%	16%
Rechargeable Batteries and Photovoltaic	8,950	10,506	12,607	14,498	16,238
YoY	2%	17%	20%	15%	12%
Other business	2,868	587	646	807	969
YoY	5524%	-80%	10%	25%	20%
Total Explicit revenue	130,055	127,739	165,758	207,719	268,728
YoY	23%	-2%	30%	25%	29%
Power battery				720	13,619
YoY					1790%
IGBT				370	777
YoY					110%
Total	130,055	127,739	165,758	208,809	283,124
YoY	23%	-2%	30%	26%	36%

Source: Company data, CMBIS estimates



## Figure 10: P&L breakdown

(RMB mn)	FY18A	FY19A	FY20E	FY21E	FY22E
Revenue	130,055	127,739	165,758	208,809	283,124
ҮоҮ	22.79%	-1.78%	29.76%	25.97%	35.59%
Cost of sales	(108,725)	(106,924)	(137,779)	(175,678)	(235,442)
Gross profit	21,330	20,814	27,979	33,131	47,682
GPM (%)	16.40%	16.29%	16.88%	15.87%	16.84%
YoY	5.91%	-2.42%	34.42%	18.42%	43.92%
Selling Exp	(4,729)	(4,346)	(5,636)	(7,308)	(9,909)
% of rev	-3.64%	-3.40%	-3.40%	-3.50%	-3.50%
Admin Exp	(4,989)	(5,629)	(6,630)	(7,935)	(9,343)
% of rev	-3.84%	-4.41%	-4.00%	-3.80%	-3.30%
Operating profit	4,241	2,312	5,820	6,709	14,856
OPM (%)	3.26%	1.81%	3.51%	3.21%	5.25%
YoY	-21.62%	-45.48%	151.70%	15.27%	121.44%
Net profit	2,780	1,614	4,171	4,632	10,310
NPM (%)	2.14%	1.26%	2.52%	2.22%	3.64%
YoY	-31.64%	-41.93%	158.33%	11.06%	122.59%

Source: Company data, CMBIS estimates

## Figure 11: Interim/Full-year P&L breakdown

(RMB mn)	1H19	1H20	YoY	2H19	2H20E	YoY
Revenue	62,184	60,503	-3%	65,554	105,255	61%
Cost of sales	(51,523)	(48,647)	-6%	(55,401)	(89,133)	61%
Gross profit	10,661	11,856	11%	10,153	16,122	59%
Taxes and levies	(769)	(676)	-12%	(792)	(1,314)	66%
Selling and distribution exp	(2,301)	(2,005)	-13%	(2,045)	(3,630)	77%
Administrative expenses	(2,071)	(2,020)	-2%	(2,070)	(2,952)	43%
R&D expenses	(2,495)	(2,525)	1%	(3,134)	(4,105)	31%
Finance costs	(1,453)	(1,664)	15%	(1,561)	(2,097)	34%
Other income	899	733	-18%	824	1,652	100%
Investment income	(273)	(128)	-53%	(535)	(452)	-16%
GL from changes in fair values	5	42	787%	5	(102)	-2156%
Impairment losses on assets/credit	(389)	(659)	69%	(247)	(177)	-28%
GL on disposal of subsidiaries	(26)	(7)	-73%	(74)	(73)	-1%
Operating profit/(loss)	1,789	2,948	65%	523	2,872	449%
Non-operating income	112	104	-7%	115	394	244%
Non-operating expense	(27)	(124)	355%	(80)	(0)	-99%
Profit before income tax	1,874	2,928	56%	557	3,265	<b>486</b> %
Income tax expense	(225)	(545)	142%	(87)	(369)	325%
Profit for the year	1,648	2,383	45%	471	2,896	515%
Non-controlling interests	194	721	272%	311	388	25%
NP	1,455	1,662	14%	160	2,508	1469%

Source: Company data, CMBIS estimates



## **Financial Summary**

Income statement					
YE 31 Dec (RMB mn)	FY18A	FY19A	FY20E	FY21E	FY22E
Revenue	130,055	127,739	165,758	208,809	283,124
Cost of sales	(108,725)	(106,924)	(137,779)	(175,678)	(235,442)
Gross profit	21,330	20,814	27,979	33,131	47,682
	(0.4.40)	(1 = 0 1)	(4.000)	(0.500)	(0.007)
Taxes and levies	(2,146)	(1,561)	,	(2,506)	(3,397)
S&D exp	(4,729)	(4,346)	(5,636)	(7,308)	(9,909)
R&D exp	(3,760)	(4,141)	(4,973)	(6,055)	(8,069)
Admin exp	(4,989)	(5,629)	(6,630)	(7,935)	(9,343)
Finance costs	(2,997)	(3,014)	(3,761)	(4,355)	(4,260)
Impairment losses	(1,020)	(636)	(836)	(1,044)	(1,417)
Other income	2,328	1,724	2,386	3,187	4,072
Investment income	248	(809)	(580)	(313)	(283)
GL from changes in FV	(5)	10	(59)	4	(40)
GL on disposal	(19)	(100)	(80)	(97)	(179)
Operating profit/(loss)	4,241	2,312	5,820	6,709	14,856
Non-operating income	230	226	497	418	510
Non-operating expense	(86)	(107)	(124)	(157)	(225)
Profit before income tax	4,385	2,431	6,193	6,970	15,141
Income tax expense	(829)	(312)	(914)	(1,106)	(2,090)
Profit for the year	3,556	2,119	5,279	5,863	13,051
Non-controlling interests	776	504	1,109	1,231	2,741
NP	2,780	1,614	4,171	4,632	10,310

Cash flow					
YE 31 Dec (RMB mn)	FY18A	FY19A	FY20E	FY21E	FY22E
Net income	3,556	2,119	5,279	5,863	13,051
D&A	9,995	9,933	10,035	12,193	14,571
Change in working capital	(291)	3,233	5,493	5,814	1,738
Others	(1,319)	5,923	-	-	-
Net cash from operating	12,523	14,741	10,735	13,348	27,973
Capex & investments	(6,076)	(12,040)	(12,992)	(13,608)	(14,961)
Associated companies	(496)	(499)	(406)	(447)	(491)
Others	(7,659)	(8,342)	(4,265)	(4,872)	(6,829)
Net cash from investing	(14,231)	(20,881)	(17,663)	(18,927)	(22,281)
Equity raised	-	-	-	-	-
Change of Debts	5,076	10,535	16,355	13,244	6,006
Dividend paid	(557)	(164)	(417)	(463)	(1,031)
Others	(603)	(3,761)	7,726	(8)	10,702
Net cash from financing	3,917	6,610	10,019	12,060	(3,172)
Net change in cash	2,209	470	3,091	6,481	2,520
Cash at the beginning	9,903	13,052	12,650	16,183	16,705
Others	941	(872)	442	(5,959)	594
Cash at the end	13,052	12,650	16,183	16,705	19,819
Less: pledged cash	-	-	-	-	-

#### **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 88,675 101,903 115,442 131,283 Sales mix (%) 79.361 58% 50% 40% 40% 44% Fixed asset 43,679 49,443 58,001 66,220 74,742 Automobiles Intangible assets 11,314 12,650 14,840 16,943 19,123 Handset Components 32% 42% 52% 52% 44% Interest in joint 3,561 4,060 4,466 4,913 5,404 **Rechargeable Batteries** 7% 8% 8% 7% 6% 24,597 32,015 2% 0% Other non-current assets 20.807 22.521 27,366 Other business 0% 0% 0% 0% 0% 0% 0% 5% Power battery Current assets 115,211 106,967 134,346 161,215 198,408 IGBT 0% 0% 0% 0% 0% 100% 100% 100% 100% Cash 13,052 12,650 16,183 16,705 19,819 100% Total Account receivable 49,284 43,934 55,253 67,358 80,893 Inventory 26,330 25,572 33,442 41,828 52,321 P&L ratios (%) Other current assets 24,811 35,324 16% 16% 17% 16% 17% 26.545 29,469 45.376 Gross profit margin Pre-tax margin 3% 2% 4% 3% 5% **Current liabilities** 116,569 108,029 139,117 171,571 207,814 Net margin 3% 2% 3% 3% 5% 40,332 14% Borrowings 37.789 53,093 65.014 68.917 Effective tax rate 19% 13% 15% 16% Account payables 46,283 36,168 45,926 56,670 73,576 **Balance sheet ratios** Other payables 13,568 11,217 14,467 18,446 24,721 Current ratio (x) 0.99 0.99 0.97 0.94 0.95 Tax payables 18,930 20,311 25,631 31,440 40,600 Quick ratio (x) 0.59 0.59 0.56 0.53 0.52 Cash ratio (x) 0.11 0.12 0.12 0.10 0.10 Non-current liabilities 17,308 25,011 29,812 32,249 36,326 Debtors turnover days 138 126 122 118 104 Borrowings 13,924 21,916 25,511 26,834 28,937 Total debt / total equity 221% 213% 251% 280% 285% Provisions 66 103 73 88 167 Net debt / equity ratio 64% 79% 91% 83% 78% Deferred income tax Returns (%) -5% 3% 7% 7% 14% Others 3,317 2,992 4,228 5,326 7,222 ROE ROA 4% 3% 5% 4% 6% **Total equity** 60,694 62,601 67,320 72,837 85,550 Per share **Minority Interest** 5,496 5,839 5,980 6,620 7,688 EPS (RMB) 0.93 0.50 1.43 1.60 3.68 Shareholders' equity 55,198 56,762 61,340 66,217 77,863 DPS (RMB) 0.20 0.06 0.15 0.17 0.38 **BVPS (RMB)** 20.23 20.81 22.48 24.27 28.54

Source: Company data, CMBIS estimates

Note: \*All numbers are based on A share financial statement



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