## CMB International Securities | Equity Research | Company Update





# **BYD (1211 HK)**

## Momentum to maintain with NEV sales

BYD announced that total auto sales volume achieved 48K units in Oct, an increase of 16.1% YoY. Among these, NEPV achieved 22K units, an increase of 83.1% YoY/ 18.5% MoM. The Company announced its 4Q20E earnings guidance with a bottom-line range of RMB 4.2bn-4.6bn in 2021E. We believe BYD will benefit most from recent improving sentiment on NEV, from both sales volume and market sentiment perspective. We raised our bottom-line forecast by 24% to RMB 5.2bn in 2020E to reflect a higher ASP and GPM on auto segment. **Reiterate BUY rating and raise TP to HK\$230.0.** 

- BYD continues rapid growth in NEV segment in Oct. BYD sold 47K units (ICE+NEV) of auto in Oct, an increase of 16.1%YoY. Its NEV business remains on the high growth path with a total sales volume of 23K units, an increase of 84.7% YoY. Among these, NEPV achieved 22K units (+83.1% YoY) whereas NECV achieved 1.2K units (+123.2% YoY). We believe that the total delivery of model Han is in line with our expectations, with a total volume of 7,545 units in Oct. We expect that the sales volume of Han will continue to rise MoM within the year as the production of the blade battery is ramping up. In terms of ICE, sales reached 25K units in Oct, down 14.2% YoY/up 9.9% MoM.
- 3Q20 achieved RMB1.75bn, an increase 1363% YoY, in line with the Company's earnings preview. Among them, BYD Electronics (285 HK, BUY) contributed approximately RMB1.22mn while other segments contributed RMB527mn. We believe that a series of new models, underpinned by production ramp-up of blade battery, will support the sales performance in the short term. We expect BYD will achieve total NEPV sales of 45K units in Nov & Dec, an increase of 112%YoY. We expect DM4.0 (expected rollout in 1Q21E) and new BEV platform (expected rollout in 2021 Shanghai Auto Show) will further boost its NEV sales in 2021E.
- Higher ASP and GPM raise the 2021E bottom-line forecast. We expect that strong sales of model Han among its NEPV will increase to 20% in NEV sales mixbased on our new calculation. Therefore, aggregate ASP for the NEPV segment increased by 9% to RMB187Kin 2020. In the meanwhile, we believe that BYD will continue to utilize its cost control advantage, driving its improvement in GPM of auto segment. We therefore raised our 2021E earnings forecast by 30% to RMB6.88mn.

## **Earnings Summary**

(YE 31 Dec)	FY18A	FY19A	FY20E	FY21E	FY22E
Revenue (RMB mn)	130,055	127,739	156,971	208,657	272,410
YoY growth (%)	22.79%	-1.78%	22.88%	32.93%	30.55%
Net income (RMB mn)	2,780	1,614	5,210	6,884	10,606
EPS (RMB)	0.93	0.50	1.81	2.43	3.79
YoY growth (%)	-34%	-47%	265%	34%	56%
Consensus EPS(RMB)	N/A	N/A	0.97	1.12	1.47
P/E (x)	185.71	347.96	95.44	71.30	45.64
P/B (x)	8.55	8.32	7.54	6.74	5.77
Yield (%)	0.12%	0.03%	0.11%	0.15%	0.22%
ROE (%)	5.05%	2.88%	8.73%	10.38%	13.96%
Net gearing (%)	64%	79%	86%	78%	72%
Source: Company data, Bloc	mberg, CMBIS	estimates			

## **BUY (Maintain)**

Target Price HK\$230.0 (Previous TP HK\$160.0) Up/Downside +16.6% Current Price HK\$197.2

#### **China NEV Sector**

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### Stock Data

Mkt Cap (HK\$ mn)	568,960
Avg 3 mths t/o (HK\$ mn)	1,317.36
52-week high/low	197.2/33.46
Total Issued Shares (mn)	915 (H)
	1 813 (A)

Source: Bloomberg

## **Shareholding Structure**

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Wang Chuanfu	18.83%
Lv Xiangyang	8.77%
Bershire Hathaway Energy	8.25%

Source: Company announcement

#### **Share Performance**

	Absolute	Relative
1-mth	59.5%	47.6%
3-mth	151.7%	145.9%
6-mth	313.4%	284.0%

Source: Bloomberg

## 12-mth Price Performance



Source: Wind

## **Auditor: Ernst & Young**

## **Related Report**

- "BYD (1211 HK) Upside remains as bottom-line revised up" – 15 Oct 2020
- BYD (1211 HK) A shining monthly delivery of model "Han" – 8 Sep 2020
- 3. "BYD (1211 HK) Hidden giant in the cave" 23 Jul 2020

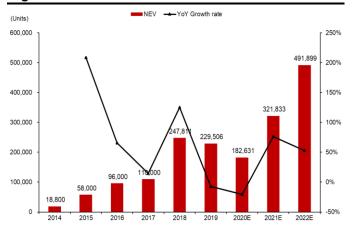


■ Sentiment-driven re-rating on the NEV segment. BYD's share price performed well exceed our expectation, while fundamentals were largely on track with our projection. We think BYD's re-rating was mainly sentimentally driven on an optimistic outlook for the NEV segment. Based on our SOTP framework, we believe the market is currently pricing the NEV segment at a 5.5x FY21E P/S ratio. After peers' recent share price rally, we believe BYD's NEV valuation is significantly lower than the peer's average of 10.1x FY21E P/S. Based on FY21E NEV sales projection of RMB62.8bn, we expect 1) bull case share price to trade up to 8.9x P/S at HK\$270, in line with Tesla (TSLA US, NR)'s valuation in a thrilling market sentiment; 2) bear case share price to trade down to 3x P/S at HK\$150; and 3) base case valuation of 7x P/S at HK\$230, matching with peers valuation growth with 30% discount. Our valuation revision reflects changes only on the NEV segment, and we think other catalysts such as power batteries gaining external shipment could boost valuation further. Our TP for BYD is revised up by 43.6% to HK\$230, maintain BUY.



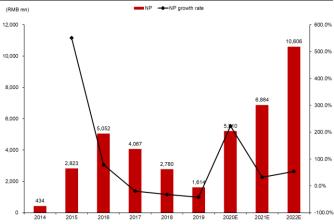
## **Focus chart**

Figure 1: NEV Sales volume forecast: BYD



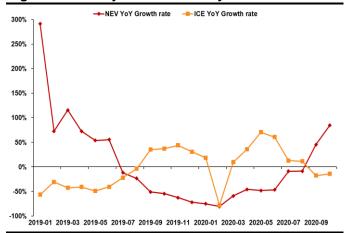
Source: Company data, CMBIS estimates

Figure 2: Bottom-line forecast



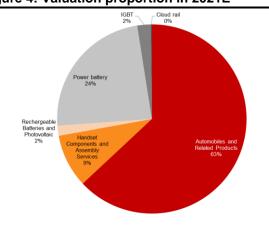
Source: Company data, CMBIS estimates

Figure 3: Monthly sales review: by NEV/ICE



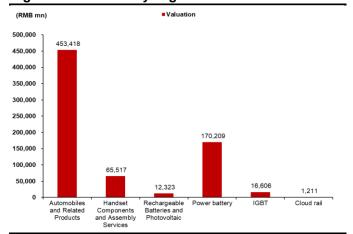
Source: Company data

Figure 4: Valuation proportion in 2021E



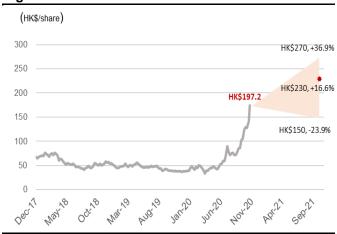
Source: Company data

Figure 5: Valuation by segment in 2021E



Source: Company data, CMBIS estimates

Figure 6: Risk-Reward



Source: Company data, CMBIS estimates



## **Earnings Revision**

Figure 7: Earnings revision

(BMP mn)	Nev	W	Old	t	Change (%)			
(RMB mn)	FY20E	FY21E	FY20E	FY21E	FY20E	FY21E		
Revenue	156,971	208,657	156,971	201,032	0%	4%		
Gross profit	28,095	36,039	26,647	32,923	5%	9%		
Operating profit	7,383	10,097	5,911	7,704	25%	31%		
Net profit	5,210	6,884	4,218	5,287	24%	30%		
EPS (RMB)	1.81	2.43	1.45	1.84	25%	32%		
GPM	17.90%	17.27%	16.98%	16.38%	0.9 ppt	0.9 ppt		
OPM	4.70%	4.84%	3.77%	3.83%	0.9 ppt	1.0 ppt		
NPM	3.32%	3.30%	2.69%	2.63%	0.6 ppt	0.7 ppt		

Source: CMBIS estimates

Figure 8: CMBIS estimates vs consensus

(DMD mm)	СМВ	IS	Conse	nsus	Diff (%)		
(RMB mn)	FY20E	FY21E	FY20E	FY21E	FY20E	FY21E	
Revenue	156,971	208,657	148,041	175,338	6%	19%	
Gross profit	28,095	36,039	23,981	27,177	17%	33%	
Operating profit	7,383	10,097	8,991	10,170	-18%	-1%	
Net profit	5,210	6,884	3,939	4,226	32%	63%	
EPS (RMB)	1.81	2.43	1.44	1.65	26%	47%	
GPM	17.90%	17.27%	16.20%	15.50%	1.7 ppt	1.8 ppt	
OPM	4.70%	4.84%	6.07%	5.80%	-1.4 ppt	-1.0 ppt	
NPM	3.32%	3.30%	2.66%	2.41%	0.7 ppt	0.9 ppt	

Source: Bloomberg, CMBIS estimates

Figure 9: Revenue breakdown

(RMB mn)	FY18A	FY19A	FY20E	FY21E	FY22E
Automobiles and Related Products	76,007	63,266	62,154	90,849	122,661
YoY	34%	-17%	-2%	46%	35%
Handset Components and Assembly Services	42,230	53,380	81,565	101,466	117,092
YoY	4%	26%	53%	24%	15%
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	156,971	207,620	256,959
YoY	23%	-2%	23%	32%	24%
Power battery				667	14,647
YoY					2096%
IGBT				369	803
YoY					118%
Total	130,055	127,739	156,971	208,657	272,410
YoY	23%	-2%	23%	33%	31%

Source: Company data, CMBIS estimates



Figure 10: P&L breakdown

(RMB mn)	FY18A	FY19A	FY20E	FY21E	FY22E
Revenue	130,055	127,739	156,971	208,657	272,410
YoY	22.79%	-1.78%	22.88%	32.93%	30.55%
Cost of sales	(108,725)	(106,924)	(128,876)	(172,617)	(225,595)
Gross profit	21,330	20,814	28,095	36,039	46,815
GPM (%)	16.40%	16.29%	17.90%	17.27%	17.19%
YoY	5.91%	-2.42%	34.98%	28.28%	29.90%
Selling Exp	(4,729)	(4,346)	(5,180)	(7,094)	(9,534)
% of rev	-3.64%	-3.40%	-3.30%	-3.40%	-3.50%
Admin Exp	(4,989)	(5,629)	(6,279)	(7,929)	(8,990)
% of rev	-3.84%	-4.41%	-4.00%	-3.80%	-3.30%
Operating profit	4,241	2,312	7,383	10,097	15,301
OPM (%)	3.26%	1.81%	4.70%	4.84%	5.62%
YoY	-21.62%	-45.48%	219.30%	36.76%	51.54%
Net profit	2,780	1,614	5,210	6,884	10,606
NPM (%)	2.14%	1.26%	3.32%	3.30%	3.89%
YoY	-31.64%	-41.93%	222.70%	32.13%	54.07%

Source: Company data, CMBIS estimates

Figure 11: Valuation comparison vs major NEV players

NEV Company	Ticker	Major		NEV Sale	s in China			Market Cap	2021E Sales est.	P/S multiple
		model	Jul	Aug	Sep	Oct	10M20	(US\$, mn)	(US\$, mn)	FY21E
Tesla	TSLA US Equity	Model 3	11,014	11,811	11,329	NA	79,908	399,047	45,043	8.9
Nio	NIO US	ES6, EC6, ES8	3,533	3,965	4,708	5,055	26,375	51,368	4,037	12.7
Li Auto	LI US	ONE	2,445	2,711	3,504	3,692	18,160	21,168	2,523	8.4
XPENG	XPEV US	G3, P7	2,451	2,649	3,478	3,040	14,077	20,124	1,967	10.2
WM Motor	N/A	EX5, EX6	2,036	2,057	2,107	3,003	35,920	N/A	N/A	N/A
BYD's NEV 1211 HK/	1211 HK/	Han**	1,200	4,000	5,612	7,545	18,362			
segment*	002594 CH	Other EVs	13,900	11,283	14,269	15,672	39,452	51,797	7,969	6.5

Source: Company data, Bloomberg, CMBIS estimates

Note: \*BYD NEV segment's market cap and sales estimates are estimated by CMBIS;

<sup>\*\*</sup>BYD Han's sales data is based on BYD's disclosure through its official Weibo;



# **Financial Summary**

Income statement						Cash flow					
YE 31 Dec (RMB mn)	FY18A	FY19A	FY20E	FY21E	FY22E	YE 31 Dec (RMB mn)	FY18A	FY19A	FY20E	FY21E	FY22E
Revenue	130,055	127,739	156,971	208,657	272,410	Net income	2,780	1,614	5,210	6,884	10,606
Cost of sales	(108,725)	(106,924)	(128,876)	(172,617)	(225,595)	D&A	9,995	9,933	10,035	12,193	14,571
Gross profit	21,330	20,814	28,095	36,039	46,815	Change in working capital	(291)	3,233	4,475	7,802	(315)
						Others	(543)	6,427	-	-	-
Taxes and levies	(2,146)	(1,561)	(1,884)	(2,504)	(3,269)	Net cash from operating	12,523	14,741	11,912	12,919	27,641
S&D exp	(4,729)	(4,346)	(5,180)	(7,094)	(9,534)						
R&D exp	(3,760)	(4,141)	(4,521)	(5,988)	(7,764)	Capex & investments	(6,076)	(12,040)	(12,992)	(13,608)	(14,961)
Admin exp	(4,989)	(5,629)	(6,279)	(7,929)	(8,990)	Associated companies	(496)	(499)	(406)	(447)	(491)
Finance costs	(2,997)	(3,014)	(3,635)	(4,162)	(4,029)	Others	(7,659)	(8,342)	(4,520)	(5,529)	(5,858)
Impairment losses	(1,020)	(636)	(791)	(1,043)	(1,364)	Net cash from investing	(14,231)	(20,881)	(17,919)	(19,584)	(21,310)
Other income	2,328	1,724	2,259	3,185	3,918						
Investment income	248	(809)	(549)	(313)	(272)	Equity raised	-	-	-	-	-
GL from changes in FV	(5)	10	(56)	4	(38)	Change of Debts	5,076	10,535	13,572	13,628	2,414
GL on disposal	(19)	(100)	(76)	(97)	(172)	Dividend paid	(557)	(164)	(521)	(688)	(1,061)
Operating profit/(loss)	4,241	2,312	7,383	10,097	15,301	Others	(603)	(3,761)	7,202	7,361	10,010
Non-operating income	230	226	471	417	490	Net cash from financing	3,917	6,610	8,682	8,032	(3,955)
Non-operating expense	(86)	(107)	(118)	(157)	(217)						
Profit before income tax	4,385	2,431	7,736	10,358	15,575	Net change in cash	2,209	470	2,675	1,368	2,376
Income tax expense	(829)	(312)	(1,142)	(1,644)	(2,150)	Cash at the beginning	9,903	13,052	12,650	15,325	16,693
Profit for the year	3,556	2,119	6,595	8,713	13,425	Others	941	(872)	-	-	-
Non-controlling interests	776	504	1,385	1,830	2,819	Cash at the end	13,052	12,650	15,325	16,693	19,069
NP	2,780	1,614	5,210	6,884	10,606	Less: pledged cash	-	-	-	-	-

Balance sheet						Key ratios					
YE 31 Dec (RMB mn) Non-current assets	FY18A 79,361	FY19A 88,675	FY20E 102,159	FY21E 116,354	FY22E 131,224	YE 31 Dec Sales mix (%)	FY18A	FY19A	FY20E	FY21E	FY22E
Fixed asset	43,679	49,443	58,001	66,220	74,742	Automobiles	58%	50%	40%	44%	45%
Intangible assets	11,314	12,650	14,840	16,943	19,123	Handset Components	32%	42%	52%	49%	43%
Interest in joint	3,561	4,060	4,466	4,913	5,404	Rechargeable Batteries	7%	8%	8%	7%	6%
Other non-current assets	20,807	22,521	24,852	28,278	31,956	Other business	2%	0%	0%	0%	0%
						Power battery	0%	0%	0%	0%	5%
Current assets	115,211	106,967	127,203	160,394	190,954	IGBT	0%	0%	0%	0%	0%
Cash	13,052	12,650	15,325	16,693	19,069	Total	100%	100%	100%	100%	100%
Account receivable	49,284	43,934	52,324	67,309	77,831						
Inventory	26,330	25,572	31,281	41,099	50,132	P&L ratios (%)					
Other current assets	26,545	24,811	28,274	35,294	43,922	Gross profit margin	16%	16%	18%	17%	17%
						Pre-tax margin	3%	2%	5%	5%	6%
Current liabilities	116,569	108,029	131,067	167,393	196,203	Net margin	3%	2%	4%	4%	5%
Borrowings	37,789	40,332	50,310	62,614	62,925	Effective tax rate	19%	13%	15%	16%	14%
Account payables	46,283	36,168	42,959	55,683	70,498	Balance sheet ratios					
Other payables	13,568	11,217	13,532	18,125	23,687	Current ratio (x)	0.99	0.99	0.97	0.96	0.97
Tax payables	18,930	20,311	24,266	30,971	39,091	Quick ratio (x)	0.59	0.59	0.57	0.54	0.53
						Cash ratio (x)	0.11	0.12	0.12	0.10	0.10
Non-current liabilities	17,308	25,011	29,606	32,288	36,058	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%	234%	259%	258%
Deferred income tax	66	103	91	132	172	Net debt / equity ratio	64%	79%	86%	78%	72%
Provisions	-	-	-	-	-	Returns (%)					
Others	3,317	2,992	4,004	5,322	6,949	ROE	5%	3%	9%	10%	14%
						ROA	4%	3%	5%	6%	7%
Total equity	60,694	62,601	68,689	77,067	89,918	Per share					
Minority Interest	5,496	5,839	6,102	7,005	8,080	EPS (RMB)	0.93	0.50	1.81	2.43	3.79
Shareholders' equity	55,198	56,762	62,587	70,062	81,837	DPS (RMB)	0.20	0.06	0.19	0.25	0.39
						BVPS (RMB)	20.23	20.81	22.94	25.68	30.00

Source: Company data, CMBIS estimates

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



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Stock with potential return of over 15% over next 12 months
Stock with potential return of +15% to -10% over next 12 months
Stock with potential loss of over 10% over next 12 months

NOT RATED : Stock is not rated by CMBIS

OUTPERFORM : Industry expected to outperform the relevant broad market benchmark over next 12 months

MARKET-PERFORM : Industry expected to perform in-line with the relevant broad market benchmark over next 12 months

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