

招商银行全资附属机木

## **BYD Company (1211 HK)**

### 4Q22 beat; FY23E margins likely overestimated

BYD's 4Q22 earnings beat our expectation. We raise our FY23E net profit to RMB 18.9bn, or RMB 7,100 per vehicle to account for subsidy phase-out and stiffer competition. We believe consensus could underestimate the margin dent from the subsidy phase-out. We maintain HOLD given its fair valuation to us.

- 4Q22 earnings beat. BYD announced preliminary FY22 net profit range of RMB 16-17bn on 30 Jan 2023, which implies 4Q22 net profit of RMB 6.7bn-7.7bn, stronger than our prior forecast. BYD's 4Q22 revenue of over RMB 152bn also exceeded our prior expectation, likely due to higher average selling prices. Our estimated net profit per vehicle (excl. BYDE (285 HK, HOLD)) rose slightly from RMB 9,869 in 3Q22 to RMB 9,932 in 4Q22.
- FY23E consensus may underestimate the margin dent from subsidy phase-out. We project BYD's FY23E sales volume to rise 31% YoY to 2.46mn units, outperforming our projection of China's total NEV sales volume growth of 27%, despite BYD's market leading position. Although some investors expect BYD to extend its strong sales growth, we believe both BYD's BEVs and PHEVs could face heightened competition from Tesla's price cuts and Chinese-brand PHEV launches. Our FY23E net profit estimates of RMB 18.9bn implies a net profit per vehicle excl. BYDE of about RMB 7,100 (vs. RMB 8,200 in FY22) amid subsidy phase-out. Our projected net profit per vehicle in FY23E would have been about RMB 13,100 if there was no subsidy change, or RMB 33.6bn for net profit (~100% YoY growth). For comparison, Tesla's (TSLA US, NR) 40% YoY sales volume growth in FY22 resulted in 128% YoY increase in net profit amid its superior operational efficiency.
- Valuation/Key risks. We raise our target price slightly from HK\$ 218 to HK\$ 230 based on sum-of-the-parts (SOTP) valuation (Figure 4), mainly because of forex change. We value HK\$ 180 per share for BYD's auto business, equivalent to 1.2x our FY23E NEV revenue, given the current P/S valuation of 1-2x for the NEV trio. We value HK\$ 25 and HK\$ 11 per share for BYD's battery and semiconductor segment, both based on 10x FY23E P/S on our estimated external EV battery revenue and external semiconductor sales, respectively. We value HK\$ 14 per share for BYD's handset business, based on BYDE's current market cap of HK\$ 61bn. Our target price is equivalent to 31x FY23E P/E, which is fair to us given that Tesla is now trading at 38x FY23E P/E. Key risks to our rating and target price include higher or lower NEV sales volume and margins, as well as sector re-rating or de-rating.

**Earnings Summary** 

(YE 31 Dec)	FY20A	FY21A	FY22E	FY23E	FY24E
Revenue (RMB mn)	156,598	216,142	420,024	536,681	567,920
YoY growth (%)	22.6	38.0	94.3	27.8	5.8
Net income (RMB mn)	4,234	3,045	16,508	18,884	15,883
EPS (RMB)	1.47	1.06	5.67	6.49	5.46
YoY growth (%)	162.3	(28.1)	442.1	14.4	(15.9)
P/E (x)	141.2	196.5	36.7	32.1	38.1
P/B (x)	10.6	6.4	5.4	4.7	4.2
Yield (%)	0.2	0.1	0.3	0.3	0.3
ROE (%)	7.5	4.0	16.0	15.7	11.7
Net gearing (%)	25.9	Net cash	Net cash	Net cash	Net cash

Source: Company data, Bloomberg, CMBIGM estimates

#### **HOLD (Maintain)**

Target Price HK\$ 230.00 (Previous TP HK\$ 218.00) Up/Downside -4.0% Current Price HK\$ 239.60

#### **China Auto Sector**

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# Stock Data Mkt Cap (HK\$ mn) 697,510 Avg 3 mths t/o (HK\$ mn) 1,908 52w High/Low (HK\$) 333.00/161.70 Total Issued Shares (mn) 2,911 Source: Bloomberg

Shareholding Structure	
Wang Chuanfu	17.6%
Lv Xiangyang	8.2%
Others	74.1%
Source: HKEx	

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	Absolute	Relative
1-mth	27.8%	13.1%
3-mth	34.1%	-12.7%
6-mth	-14.5%	-29.2%
Source: Bloomber	q	

#### 12-mth Price Performance

Share Performance



Auditor: Ernst & Young



Figure 1: Quarterly results

RMB mn	1Q21	2Q21	3Q21	4Q21	1Q22	2Q22	3Q22	4Q22E	YoY	QoQ
Sales volume (units)	104,145	142,544	206,055	287,387	291,378	355,021	538,704	683,440	137.8%	26.9%
Revenue	40,992	49,894	54,307	70,950	66,825	83,782	117,081	152,336	114.7%	30.1%
Gross profit	5,163	6,438	7,238	9,306	8,287	12,054	22,199	27,279	193.1%	22.9%
R&D expenses	(1,217)	(1,778)	(2,238)	(2,757)	(2,361)	(3,064)	(5,446)	(6,730)	144.1%	23.6%
SG&A expenses	(2,410)	(2,649)	(2,983)	(3,750)	(3,680)	(4,713)	(7,372)	(8,343)	122.5%	13.2%
Operating profit	646	1,570	1,653	763	1,061	3,561	7,460	8,908	1067.2%	19.4%
Net profit	237	936	1,270	602	808	2,787	5,713	7,199	1095.8%	26.0%
Gross margin	12.6%	12.9%	13.3%	13.1%	12.4%	14.4%	19.0%	17.9%	4.8 ppt	-1.1 ppt
Operating margin	1.6%	3.1%	3.0%	1.1%	1.6%	4.3%	6.4%	5.8%	4.8 ppt	-0.5 ppt
Net margin	0.6%	1.9%	2.3%	0.8%	1.2%	3.3%	4.9%	4.7%	3.9 ppt	-0.2 ppt

Source: Company data, CMBIGM estimates

Figure 2: Earnings revision

		New			Old		Diff (%)			
RMB mn	FY22E	FY23E	FY24E	FY22E	FY23E	FY24E	FY22E	FY23E	FY24E	
Revenue	420,024	536,681	567,920	380,351	463,394	481,459	10.4%	15.8%	18.0%	
Gross Profit	69,819	83,132	80,767	56,766	64,162	63,739	23.0%	29.6%	26.7%	
Operating Profit	20,990	23,608	20,246	16,615	15,992	12,966	26.3%	47.6%	56.1%	
Net profit	16,508	18,884	15,883	13,290	12,870	10,149	24.2%	46.7%	56.5%	
Gross Margin	16.6%	15.5%	14.2%	14.9%	13.8%	13.2%	1.7 ppt	1.6 ppt	1.0 ppt	
Operating Margin	5.0%	4.4%	3.6%	4.4%	3.5%	2.7%	0.6 ppt	0.9 ppt	0.9 ppt	
Net Margin	3.9%	3.5%	2.8%	3.5%	2.8%	2.1%	0.4 ppt	0.7 ppt	0.7 ppt	

Source: CMBIGM estimates

Figure 3: CMBI estimates vs consensus

		CMBIGM			Consensus		Diff (%)		
RMB mn	FY22E	FY23E	FY24E	FY22E	FY23E	FY24E	FY21E	FY22E	FY23E
Revenue	420,024	536,681	567,920	400,115	562,411	690,975	5.0%	-4.6%	-17.8%
Gross Profit	69,819	83,132	80,767	59,465	89,142	114,847	17.4%	-6.7%	-29.7%
Operating Profit	20,990	23,608	20,246	19,903	29,667	42,657	5.5%	-20.4%	-52.5%
Net profit	16,508	18,884	15,883	14,264	22,732	31,168	15.7%	-16.9%	-49.0%
Gross Margin	16.6%	15.5%	14.2%	14.9%	15.9%	16.6%	1.8 ppt	-0.4 ppt	-2.4 ppt
Operating Margin	5.0%	4.4%	3.6%	5.0%	5.3%	6.2%	0.0 ppt	-0.9 ppt	-2.6 ppt
Net Margin	3.9%	3.5%	2.8%	3.6%	4.0%	4.5%	0.4 ppt	-0.5 ppt	-1.7 ppt

Source: Bloomberg, CMBIGM estimates

Figure 4: SOTP valuation table

Segment	Estimated Revenue of FY23E (RMB mn)	Target P/S Multiple	Target Market Cap (HK\$ mn)	Target Price (HK\$)
NEV	386,498	1.2x	534,295	180
External sales of EV battery	6,385	10x	73,551	25
Handset			61,175	14
External sales of semiconductor	3,000	10x	33,523	11
SOTP			702,543	230

Source: CMBIGM estimates



#### **Financial Summary**

Income statement	t					Cash flow summary					
YE 31 Dec (RMB mn)	FY20A	FY21A	FY22E	FY23E	FY24E	YE 31 Dec (RMB mn)	FY20A	FY21A	FY22E	FY23E	FY24E
Revenue	156,598	216,142	420,024	536,681	567,920	Profit before taxation	6,883	4,518	20,900	23,458	20,096
Cost of sales	(126,251)	(187,998)	(350,205)	(453,549)	(487,153)	Depreciation/amortization	12,519	14,108	16,042	18,213	20,151
Gross profit	30,346	28,145	69,819	83,132	80,767	Change in working capital	21,399	44,083	(14,878)	7,886	6,041
						Others	4,592	2,757	1,352	(10)	462
Selling exp.	(5,056)	(6,082)	(14,220)	(17,433)	(17,932)	Net cash from operating	45,393	65,467	23,417	49,546	46,750
Admin exp.	(4,321)	(5,710)	(9,889)	(12,499)	(13,654)						
R&D exp.	(7,465)	(7,991)	(17,600)	(19,360)	(18,700)	Capex	(11,774)	(37,344)	(25,930)	(25,170)	(23,830)
Others	(6,419)	(3,730)	(7,121)	(10,232)	(10,235)	Others	(2,670)	(8,060)	(900)	(990)	(990)
Operating profit	7,086	4,632	20,990	23,608	20,246	Net cash from investing	(14,444)	(45,404)	(26,830)	(26,160)	(24,820)
Non-operating income	282	338	340	300	300	Share issuance	-	37,314	-	_	-
Non-operating expenses	(485)	(452)	(430)	(450)	(450)	Net borrowings	(24,490)	(17,006)	(11,051)	(9,888)	(1,000)
Pre-tax profit	6,883	4,518	20,900	23,458	20,096	Others	(4,418)	,	. , ,	(3,148)	. , ,
						Net cash from financing	(28,907)	16,063	(12,307)	(13,036)	(4,111)
Tax	(869)	(551)	(3,390)	(3,468)	(2,951)						
Minority interests	(1,780)	(922)	(1,003)	(1,106)	(1,262)	Net change in cash	2,041	36,125	(15,720)	•	•
Net profit	4,234	3,045	16,508	18,884	15,883	Cash at beginning of the year	11,674	13,738	49,820	34,100	44,450
						Exchange difference	23	(44)	-	-	-
						Cash at the end of the year	13,738	49,820	34,100	44,450	62,270
Balance sheet						Key ratios					
YE 31 Dec (RMB mn)	FY20A	FY21A	FY22E	FY23E	FY24E	YE 31 Dec	FY20A	FY21A	FY22E	FY23E	FY24E
Current assets	111,605	166,110	226,486	290,592	323,520	Sales mix (%)					
Cash & equivalents	14,445	50,457	35,000	45,450	63,270	Automobile	53.6	52.0	71.2	72.9	71.2
Account receivables	50,079	44,994	83,142	106,234	112,417	Handset	38.3	40.0	24.1	22.8	24.8
Inventories	31,396	43,355	76,757	101,893	109,443	Battery & others	8.0	8.0	4.7	4.2	4.1
Other current assets	15,685	27,304	31,587	37,015	38,390						
						Growth (%)					
Non-current assets	89,412	129,670	141,976	151,292	156,729	Revenue	22.6	38.0	94.3	27.8	5.8
PP&E	54,585	61,221	68,708	73,644	75,180	Gross profit	45.8	(7.3)	148.1	19.1	(2.8)
Intangibles	11,870	17,171	19,731	20,334	20,155	Operating profit	206.4	(34.6)	353.2	12.5	(14.2)
Investment in JVs&assos	5,466	7,905	8,975	10,285	11,595	Net profit	162.3	(28.1)	442.1	14.4	(15.9)

Investment in JVs&assos 17,492 43,373 44,562 47,030 49,799 Other non-current assets **Total assets** 201,017 295,780 368,462 441,885 480,249 Profit & loss ratio (%) Gross margin 19.4 13.0 16.6 15.5 14.2 **Current liabilities** 106,431 171,304 228,161 284,134 308,164 Operating margin 4.5 2.1 5.0 4.4 3.6 16,401 10,204 7,888 Net profit margin 2.7 1.4 3.9 3.5 2.8 Bank borrowings Account payables 42,983 73,160 115,136 149,112 160,160 Contract Liabilities 8,193 14,934 19,189 24,852 6,006 Balance sheet ratio Other current liabilities 38,854 73,006 85,948 110,170 141,998 Net cash/total equity (x) (0.3)0.3 0.2 0.3 0.4 1.0 Current ratio (x) 1.0 1.0 1.0 1.0 16,047 Receivable turnover days Non-current liabilities 30,133 20,232 17,848 16,959 136 94 85 85 85 6,744 14,745 8,744 7,744 4,744 Inventory turnover days 91 84 80 82 82 Bank borrowings 8,880 2,046 46 46 1,046 Payable turnover days 150 156 150 150 150 Bond payables Other non-current liabilities 6,507 9,442 10,058 10,169 10,257 **Total liabilities** 136,563 191,536 246,009 301,092 324,211 Profitability (%) ROE 7.5 16.0 15.7 4.0 11.7 Share capital 2.911 2,911 ROA 2.1 1.2 5.0 4.7 2,728 2,911 2.911 3.4 53,052 92,159 108,461 125,794 139,889 Reserves Non-controlling interests 7,580 9,175 11,081 12,087 13,238 Per share data (RMB) Shareholders' equity 56,874 95,070 111,372 128,705 142,800 1.47 1.06 5.67 6.49 5.46 **FPS** 

Source: Company data, CMBIGM estimates

201,017

295,780

368,462

441,885

480,249

Total equity and liabilities

0.55

0.15

0.11

0.57

0.65



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