BYD (1211.HK)

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May see a performance inflection point in 2013

Bloomberg | Reuters | POEMS 1211.HK | 1211.HK | 1211.HK Industry: Automobile

Phillip Securities Research Pte Ltd

28 March 2013

FY2012 Result Review

Recommendation: Accumulate | Previous Close: HKD25.15 | Fair Value: HKD29

Company Profile

Founded in 1995, BYD's main businesses comprise IT (rechargeable battery and handset component), automobiles and new energy (solar farm, battery energy storage station, electric vehicle, and LED, etc). In 2003, It entered automobile business by purchasing Tsinchuan Auto. BYD was listed on HKEx in July 2002.

Summary

Under the burden of solar photovoltaic business, FY2012 net profit down by over 90%: BYD reported operating revenue of about RMB 44.38 billion in 2012, 4.2% down on YoY basis. Income growth of the three major businesses is slower than cost growth, and overall gross profit rate dropped by 3.3ppts to 11.55%. Huge loss of solar photovoltaic business effaced profits. Core business of the Company recorded nearly RMB 300 million of operational losses. Fortunately, RMB 970 million of government subsidy and other income rescued the final profit (RMB 81.37 million, down 94.12% on YoY basis) from losses. EPC is RMB 0.03 as compared with RMB 0.6 in 2011.

Structural improvement of auto business and high takeoff potential in 2013: Auto sales for the year rose slightly by 2.3%, i.e. 456,000 cars (where the export increased by 39% to 24,000 cars). YoY increase of income grows by 1.88% to RMB 22.55 billion. Driven by hotter new car sales and upgrading vehicle structure, the average unit price increased by 9.3%. However, due to improvement of spare part quality, growth of purchase costs drives gross profit slightly down. We believe that the Company will gain in the future from the improvement of product quality: in the 4th quarter in 2012, auto sales well started to bottom out with a significant YoY increase of 24.6%, while in the first two months of 2013; auto sales reached 91,000 with a YoY increase of 27.9%, faster than the industrial average. Through three years of adjustment and gradual improvement of sales channels, gradual release of key vehicles (Sirui as the upgrading model of F6, high-end SUV S7, the second-generation dual-mode electric vehicle, Qin, and the pure electrical vehicle jointly manufactured with Daimler, Denza) will lay a foundation for further takeoff of car business of the Company.

| BAD | | |
|-----------------------------------|-------------------------------------|--|
| Rating | 2.00 | Accum ulate |
| - Previous Rating | 2.00 | Accumulate |
| Target Price (HKD) | 29 | |
| - Previous Target Price (HKD) | 29 | |
| Closing Price (HKD) | 25.15 | |
| Expected Capital Gains (%) | 15.3% | |
| Expected Dividend Yield (%) | 0.0% | |
| Expected Total Return (%) | 15.3% | |
| Raw Beta (Past 2yrs w eekly data) | 1.60 | |
| Market Cap. (HKD bn) | 65,447 | |
| Enterprise Value (HKD mn) | 70,473 | |
| 52 w eek range (HKD) | 12.54 - 32 | .8 |
| Closing Price in 52 w eek range | | |
| 20.00 | 0% | 50% 100% 18 16 14 12 10 8 6 4 2 0 |
| | 28-Nov-12 28-Oct-12 28-Sep-12 | |
| Volume, mn —— 12 | 11 hk equity | HSI |

| Key Financial Summary | | | | |
|---------------------------|--------|--------|--------|--------|
| FYE | 12/11 | 12/12 | 12/13F | 12/14F |
| Revenue (RMB mn) | 46,312 | 44,381 | 54,785 | 62,346 |
| Net Profit, adj. (RMB mn) | 1,385 | 81 | 819 | 1,591 |
| EPS, adj. (RMB) | 0.61 | 0.03 | 0.35 | 0.68 |
| P/E (X),adj. | 33.2 | 583.3 | 57.9 | 29.8 |
| BVPS (RMB) | 8.97 | 9.00 | 9.51 | 10.37 |
| P/B (X) | 2.2 | 2.2 | 2.1 | 1.9 |
| DPS (RMB) | 0.00 | 0.00 | 0.01 | 0.06 |
| Div. Yield (%) | 0.0% | 0.0% | 0.0% | 0.3% |
| | | | | |

Source: Bloomberg, PSR est.

Valuation Method

PE&PB

DVD

Analyst Phillip Research Team +65 65311240

research@phillip.com.sg



^{*}All multiples & yields based on current market price



Rapid development of new energy vehicles by zero down payment pattern: In terms of new energy vehicles, the pure electric vehicle, E6, to be sold in Hong Kong had sales of about 1700 sets in 2012, in addition to 262 electric buses, K9, and 1,201 sets of F3DM. In November 2012, the Company launched the business pattern of "Zero Down Payment" in consideration of high initial purchase price of electric vehicles. In addition to the good demonstration effect of the vehicles under trial operation and new energy subsidy policy to be promulgated in April-May, we believe that new energy vehicles of the Company may develop by a higher speed and further improve the profitability of the Company.

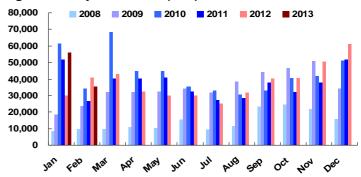
IT business: Accumulative input of the Company to photovoltaic business has been over RMB 3 billion. Sluggish industrial demand causes much loss for assets diminution. Most inventory diminution of the Company's photovoltaic business in 2012 has been withdrawn. 500MW photovoltaic power station project under the contract with Yulin, Shaanxi, will expectedly be put into construction in 2013. The construction will effectively improve production capacity utilization. It is expected that photovoltaic business will significantly ease its burden on performance of the Company in 2013. Mobile business of the Company has a poor performance in 2012, because new product models of key customers have not been put into mass production. The Company will further expand new customers, new models and market demand. We expect that the two businesses will grow steady in 2013.

Valuation: Given the stabilizing auto sales, optimizing car models and decreasing photovoltaic burden, we believe that the Company has survived the hardest period. With effect of new car models, it is expected that auto business will achieve a growth of over 20% in 2013. The Company may usher in a further takeoff of profit improvement. It is expected that in 2013 and 2014, net profit of the Company will be RMB 820 million and 1.59 billion. The target price is HKD 29, equivalent to 66 and 34 times of the expected PE ratio, and 2.44 and 2.24 times of expected PB ratio in 2013, 2014 respectively, hence "accumulate" rating.

Risk

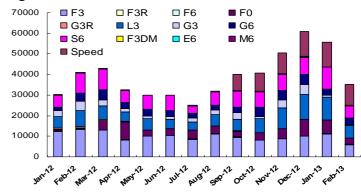
- 1) Slackened economy largely reduced demands for auto, handset and batteries;
- 2) Uncertainty of new energy's future development;
- 3) Rising raw material cost;
- 4) Lower than expected new car model sales and distributor network risk

Fig 1. Monthly auto sales (unit)



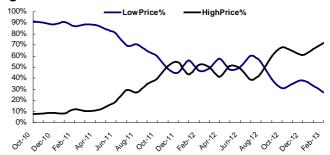
Data source: Phillip Securities

Fig 2. Auto sales Breakdown (unit)



Data source: Phillip Securities

Fig 3. Auto sales Structure



Data source: Phillip Securities



Fig 4. Peer Comparison

| Fig 4. Peer Comparison | | | | | | | | | | | | | |
|---------------------------|---|--------------------|-------|--------------|------|--------------|------------------|------------|-------------|--------------|-------------|--------------|-------------|
| | • | Mark Cap | BEst | BEst P/B: | BEst | BEst P/E | BEst EV/BEst | | ROA | ROE | OPM | GPM | |
| Ticker | Name | (USD) | P/B | Y+1 | P/E | Y+1 | EBITDA | P/B | | % | % | % | PM % |
| EDM (3 sec | curities) | ` , | | | | | | | | | | | |
| | quity VOLKSWAGEN AG | 89480 | 0.8 | 0.7 | 6.8 | 5.9 | 6.9 | 0.9 | 7.7 | 32.2 | 5.1 | 16.5 | 3.4 |
| DAI GR Equ | • | | 1.1 | 1.0 | | 8.0 | 9.4 | 1.1 | 3.9 | 14.6 | 5.4 | 21.1 | 7.5 |
| EFR (2 sec | quity BAYERISCHE MOTOR urities) | EN 56910 | 1.4 | 1.2 | 8.9 | 8.6 | 8.0 | 1.5 | 4.0 | 17.8 | 9.2 | 19.2 | 5.8 |
| RNO FP Ed | | 18730 | 0.5 | 0.5 | | 5.0 | 8.9 | 0.6 | 2.4 | 7.3 | 1.0 | 16.9 | 5.0 |
| UG FP Equ HKD (11 se | • | 2594 | 0.2 | 0.2 | #N/A | 150.4 | 11.3 | 0.2 | -7.5 | -42.4 | -2.2 | 12.8 | -16.2 |
| 1211 HK E | | 8430 | 2.1 | | 46.1 | 33.2 | 13.0 | 2.2 | 0.1 | 0.4 | 2.6 | 11.0 | 0.3 |
| 2333 HK E | | | 2.5 | 2.1 | | 8.9 | 9.8 | 3.1 | 15.0 | 29.8 | 15.9 | 24.5 | 13.9 |
| 489 HK Equ | • | | 1.3 | 1.1 | 8.5 | 7.5 | 3.8 | 1.4 | 8.3 | 25.0 | 10.1 | 19.6 | 7.9 |
| 2338 HK E | | | | 1.2 | | 9.3 | 8.0 | 1.7 | 4.7 | 12.5 | 5.4 | 19.2 | 5.2 |
| 1114 HK Ed | | | | 3.3 | | 11.0 10.3 | 147.0 | 5.0 | 15.9 2.3 | 27.2 7.6 | 0.4 -4.3 | 12.9 | 47.4 |
| 2238 HK E | Equity CHONGQING CHANGA quity GUANGZHOU AUTOMO | | | 1.5 1.0 | | | 97.8 #N/A N/A | 2.0 | 8.1 | 15.6 | -4.3 | 16.2 4.7 | 3.1 27.0 |
| 175 HK Equ | | | | 1.5 | | 8.9 | 6.4 | 2.0 | 6.9 | 18.2 | 9.9 | 19.5 | 7.6 |
| | Equity JIANGLING MOTORS (| | | 1.2 | | 6.4 | 3.6 | 1.6 | 12.1 | 19.7 | 4.7 | 23.4 | 7.4 |
| 3808 HK Ed | | | | 0.5 | | 10.3 | 8.3 | 0.5 | 0.4 | 5.4 | 2.8 | 14.9 | -0.5 |
| 1122 HK Ed | | | | 0.5 | | 10.6 | 1.5 | 0.6 | 3.2 | 4.9 | 3.9 | 12.6 | 4.5 |
| INR (1 secu | | | | | | | | | | | | | |
| TTMT IN Eq JPY (10 ser | ' ' | 14858.6 | 3 2.1 | 1.7 | 8.6 | 6.9 | 4.5 | 2.7 | 11.0 | 52.1 | 10.1 | #N/A N | 8.2 |
| 7203 JP Eq | uity TOYOTA MOTOR COR | P 178909 | 9 1.4 | 1.3 | 17.2 | 11.9 | 13.4 | 1.4 | 2.5 | 2.7 | 2.3 | 13.6 | 1.9 |
| 7267 JP Eq | • | | | 1.3 | | 11.2 | 12.0 | 1.4 | 3.1 | 4.8 | 5.4 | 25.8 | 3.2 |
| 7201 JP Eq | , | | | 1.0 | | 8.3 | 8.3 | 1.1 | 2.7 | 11.2 | 2.8 | 15.7 | 2.4 |
| 6902 JP Eq | • | 38242.6 | | 1.4 | | 15.4 | 7.2 | 1.6 | 4.2 | 4.5 | 7.9 | 15.7 | 4.5 |
| 7269 JP Eq | • | 12654.6 | 3 1.2 | 1.1 | 16.1 | 12.7 | 4.0 | 1.1 | 2.7 | 5.5 | 4.5 | 24.6 | 1.1 |
| 7270 JP Eq | uity FUJI HEAVY INDUSTR | E: 12343.9 | 2.2 | 1.9 | 14.2 | 11.1 | 6.8 | 2.3 | 4.0 | 8.9 | 6.4 | 21.4 | 2.7 |
| 7261 JP Eq | uity MAZDA MOTOR CORP | 9020.25 | 1.7 | 1.5 | 27.9 | 11.4 | 10.6 | 1.8 | 1.7 | -24.0 | 1.6 | 21.3 | 3.9 |
| 7211 JP Eq | uity MITSUBISHI MOTORS | C(6525.07 | 2.1 | 1.8 | 32.1 | 12.6 | 8.6 | #N/A | 2.2 | #N/A N | 2.4 | 18.1 | -3.0 |
| 7205 JP Eq | • | 6273.06 | | 2.2 | | 12.0 | 7.3 | 2.7 | 4.5 | 8.1 | 4.0 | 14.1 | 2.5 |
| 7272 JP Eq KRW (2 se | • | LT 4811.12 | 2 1.4 | 1.2 | 13.9 | 10.6 | 7.5 | 1.5 | 0.8 | 2.5 | -0.4 | 18.1 | -1.2 |
| 005380 KS | Equity HYUNDAI MOTOR CO | 44344.4 | 1.1 | 1.0 | 6.1 | 5.7 | 7.0 | 1.1 | 7.4 | 21.0 | 10.0 | 23.1 | 10.1 |
| 000270 KS SEK (2 sec | Equity KIA MOTORS CORPORurities) | RA 20729 | 1.1 | 0.9 | 5.5 | 5.0 | 4.7 | 1.4 | 12.3 | 25.5 | 7.5 | 22.7 | 8.2 |
| VOLVB SS | Equity VOLVO AB-B SHS | 30991.5 | 5 2.2 | 2.0 | 15.0 | 10.5 | 9.2 | 2.2 | 3.2 | 13.0 | 1.6 | 20.5 | 1.1 |
| SCVA SS E USD (8 sec | Equity SCANIA AB-A SHS urities) | 16372.5 | 5 2.8 | 2.5 | 14.4 | 12.4 | 11.0 | 3.1 | 6.0 | 19.1 | 12.9 | 23.8 | 8.5 |
| | Equity DAIMLER AG-REGISTE | | | 1.0 | | 8.1 | 9.4 | 1.1 | 3.9 | 14.6 | 5.4 | 21.1 | 7.5 |
| F US Equity | | 51262.1 | | 1.9 | | 7.9 | 3.8 | 3.3 | 3.0 | 36.6 | 4.7 | 11.8 | 4.4 |
| GM US Equ | • | | | 1.0 | | 6.5 | 3.3 | 1.5 | 4.2 | 18.1 | -21.2 | -6.6 | 3.0 |
| | Equity PACCAR INC | 17726.4 | | 2.4 | | 14.0 | 8.0 | 3.0 | 6.2 | 19.8 | 8.8 | 17.8 | 6.3 |
| KMX US Ed | | 9320.38 | | 2.6 | | 19.9 | 17.6 | 3.1 | 5.0 | 16.8 | 6.2 | 13.3 | 3.6 |
| AN US Equ | ity AUTONATION INC | 5312.54 4301.96 | | 2.2 4.3 | | 13.6 19.0 | 12.6 12.2 | 3.1 6.4 | 4.7 15.5 | 17.7 32.6 | 4.0 24.0 | 15.2 36.4 | 2.0 14.9 |
| PAG US E | | | | 1.7 | | 11.7 | 13.4 | 2.3 | 3.8 | 15.2 | 24.0 | 15.3 | 1.4 |
| 55 E | ,, | | 0 | | | | | | 0.0 | | | .0.0 | |

Data source: Bloomberg, Phillip Securities



| FYE DEC | FY10 | FY11 | FY12 | FY13F | FY14F |
|---------------------------|----------|----------|----------|----------|----------|
| Valuation Ratios | | | | | |
| P/E (X), adj. | 18.2 | 33.2 | 583.3 | 57.9 | 29.8 |
| P/B (X) | 2.5 | 2.2 | 2.2 | 2.1 | 1.9 |
| Dividend Yield (%) | 0.0% | 0.0% | 0.0% | 0.0% | 0.3% |
| Per share data (RMB) | | | | | |
| EPS, reported | 1.11 | 0.61 | 0.03 | 0.35 | 0.68 |
| EPS, adj. | 1.11 | 0.61 | 0.03 | 0.35 | 0.68 |
| DPS | 0.00 | 0.00 | 0.00 | 0.01 | 0.06 |
| BVPS | 8.11 | 8.97 | 9.00 | 9.51 | 10.37 |
| Growth & Margins (%) | | | | | |
| Growth | | | | | |
| Revenue | 15.4% | -0.8% | -4.2% | 23.4% | 13.8% |
| EBIT | -28.1% | -27.9% | -53.3% | 96.9% | 47.4% |
| Net Income, adj. | -33.5% | -45.1% | -94.1% | 906.3% | 94.3% |
| Margins | | | | | |
| EBIT margin | 7.3% | 5.3% | 2.6% | 4.1% | 5.4% |
| Net Profit Margin | 5.4% | 3.0% | 0.2% | 1.5% | 2.6% |
| Ğ | | | | | |
| Key Ratios | | | | | |
| ROE (%) | 14.36% | 7.00% | 0.38% | 3.76% | 6.8% |
| ROA (%) | 5.40% | 2.31% | 0.12% | 1.15% | 2.1% |
| Income Statement (RMB mn) | | | | | |
| Revenue | 46685 | 46312 | 44381 | 54785 | 62,346 |
| Cost of sales | (38,421) | (39,445) | (39,255) | (46,819) | (52,763) |
| Gross profit | 8264 | 6867 | 5126 | 7966 | 9,583 |
| Other income and gains | 886 | 1289 | 974 | 715 | 860 |
| Operating expenditure | (5,752) | (5,688) | (4,922) | (6,410) | (7,096) |
| Financial costs | (281) | (742) | (862) | (967) | (1,032) |
| Profit before tax | 3,142 | 1,727 | 291 | 1,304 | 2,314 |
| Tax | (224) | (132) | (78) | (326) | (532) |
| Profit for the period | 2,919 | 1,595 | 213 | 978 | 1,782 |
| Minority interests | (395) | (210) | (132) | (159) | (191) |
| Net profit | 2,523 | 1,385 | 81 | 819 | 1,591 |
| | | · | | | · |
| FYE DEC | FY10 | FY11 | FY12F | FY13F | FY14F |
| Balance Sheet (RMB m n) | | | | | |
| Total Assets | 52,963 | 66,881 | 70,008 | 72,794 | 76,054 |
| Cash & cash equivalent | 1,993 | 3,737 | 4,042 | 4,830 | 5,210 |
| Total Liabilities | 31,812 | 42,901 | 45,863 | 46,875 | 47,521 |
| Non-controlling interest | 2,691 | 2,856 | 2,947 | 3,520 | 4,115 |
| Total Equity | 21,151 | 23,980 | 24,144 | 25,919 | 28,533 |
| Shareholder Equity | 18,460 | 21,125 | 21,197 | 22,399 | 24,418 |
| Source: PSR | | | | | |



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Please contact Phillip Securities Research at [65 65311240] in respect of any matters arising from, or in connection with, this document.

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Contact Information (Singapore Research Team)

Chan Wai Chee

CEO, Research

Special Opportunities

+65 6531 1231 yebo@phillip.com.sg

Go Choon Koay, Bryan

Investment Analyst
Property
+65 6531 1792
gock@phillip.com.sg

Ng Weiwen

Macro Analyst
Global Macro, Asset Strategy
+65 6531 1735
ngww@phillip.com.sg

Research Assistant

General Enquiries +65 6531 1240 (Phone) research@phillip.com.sg

Joshua Tan

Head of Research

Global Macro, Asset Strategy

+65 6531 1249 joshuatan@phillip.com.sg

Travis Seah

Investment Analyst
REITs
+65 6531 1229
travisseahhk@phillip.com.sg

Roy Chen

Macro Analyst
Global Macro, Asset Strategy
+65 6531 1535
roychencz@phillip.com.sg

Derrick Heng

Deputy Head of Research SG Equity Strategist & Transport +65 6531 1221 derrickhengch@phillip.com.sg

Ken Ang

Investment Analyst Financials, Telecoms +65 6531 1793 kenangwy@phillip.com.sq

Nicholas Ong

Investment Analyst Commodities, Offshore & Marine +65 6531 5440 nicholasonghg@phillip.com.sg

Contact Information (Regional Member Companies)

SINGAPORE

Phillip Securities Pte Ltd

Raffles City Tower 250, North Bridge Road #06-00 Singapore 179101 Tel +65 6533 6001 Fax +65 6535 6631

Website: www.poems.com.sg

HONG KONG Phillip Securities (HK) Ltd

Exchange Participant of the Stock Exchange of Hong Kong 11/F United Centre 95 Queensway Hong Kong Tel +852 2277 6600

Fax +852 2868 5307 Websites: www.phillip.com.hk

INDONESIA

PT Phillip Securities Indonesia

ANZ Tower Level 23B, JI Jend Sudirman Kav 33A Jakarta 10220 – Indonesia Tel +62-21 5790 0800 Fax +62-21 5790 0809 Website: www.phillip.co.id

THAILAND

Phillip Securities (Thailand) Public Co. Ltd

15th Floor, Vorawat Building, 849 Silom Road, Silom, Bangrak, Bangkok 10500 Thailand Tel +66-2 6351700 / 22680999 Fax +66-2 22680921 Website www.phillip.co.th

UNITED KINGDOM

King & Shaxson Capital Limited

6th Floor, Candlewick House, 120 Cannon Street, London, EC4N 6AS Tel +44-20 7426 5950 Fax +44-20 7626 1757

Website: www.kingandshaxson.com

AUSTRALIA PhillipCapital

Level 12, 15 William Street, Melbourne, Victoria 3000, Australia Tel +61-03 9629 8288 Fax +61-03 9629 8882

Website: www.phillipcapital.com.au

MALAYSIA

Phillip Capital Management Sdn Bhd

B-3-6 Block B Level 3 Megan Avenue II, No. 12, Jalan Yap Kwan Seng, 50450 Kuala Lumpur Tel +603 2162 8841 Fax +603 2166 5099

Website: www.poems.com.my

JAPAN

Phillip Securities Japan, Ltd.

4-2 Nihonbashi Kabuto-cho Chuo-ku, Tokyo 103-0026 Tel +81-3 3666 2101 Fax +81-3 3666 6090 Website:www.phillip.co.jp

CHINA

Phillip Financial Advisory (Shanghai) Co. Ltd

No 550 Yan An East Road, Ocean Tower Unit 2318, Postal code 200001 Tel +86-21 5169 9200 Fax +86-21 6351 2940

Website: www.phillip.com.cn

FRANCE

King & Shaxson Capital Limited

3rd Floor, 35 Rue de la Bienfaisance 75008 Paris France Tel +33-1 45633100 Fax +33-1 45636017

Website: www.kingandshaxson.com

UNITED STATES Phillip Futures Inc

141 W Jackson Blvd Ste 3050 The Chicago Board of Trade Building Chicago, IL 60604 USA Tel +1-312 356 9000 Fax +1-312 356 9005