Deutsche Bank Markets Research

Asia China Utilities Utilities

China Environmental



Recommending Buy: stronger environmental enforcement, improving cashflow China usually strengthens environmental enforcement during the last three years of Five-Year Plan periods, as the country gets closer to assessment deadlines. We expect the same to take place from 2018, especially as the CPC's 19th National Congress recently mentioned that China plans to set up a "National Natural Resources and Ecology Administration" soon. We expect these factors to benefit this laggard sector, together with improving cashflow profile/earnings quality with selective companies over the next few years. Top pick: CEI on potential earnings beat and improving free cashflow profile for its waste-to-energy segment.

Top pick: China Everbright Intl - potential earnings beat and improving cashflow

We raise CEI earnings by 6%/14% in 2017/18e on fast project construction progress and our EPS is 7%/9% above consensus. We calculate that the WTE segment's free cashflow should improve from -HKD2.9bn in 2017e to -HKD970m in 2019e as operational capacity should grow significantly and position the segment well for positive free cashflow thereafter. This is positive, as any positive free cashflow from WTE would be used to support higher dividends according to management, while CEW and CEG will finance their own capex via debt/equity financing. The improving free cashflow profile and improving earnings quality (operating earnings as % of total earnings rising from 40% in 2017e to 50% in 2019e) should lead to a re-rating, considering the company's cheap valuation of ~10.7x PE in 2018e.

Buy on Beijing Enterprises Water on valuation; cash earning from PPP key

Our calculation shows that BEW would need to carry out EPC worth 11% of PPP orders (ex-relocation expenses) if it wants to reach cashflow break-even for its PPP projects, i.e. collecting back capital contribution during the construction stage. BEW has obtained EPC qualification in 2017; how much EPC the company can ultimately carry out depends on: 1) EPC experience requirements from specific projects, and 2) BEW's negotiation power with its construction partners. Maintaining Buy on valuation (~11.4x PE in 2018e).

Other names we particularly like; risks

We like CEG on its strong project pipeline, excellent project management and exposure to hazardous waste treatment; our channel checks show that biomass raw material costs are well under control in 10M17. See Figure 7 for a full list of

Thomas Zhu, CFA

Date

13 November 2017

Industry Update

Research Analyst +852-2203 6235

Michael Tong, CFA

Research Analyst +852-2203 6167

Key Change

| Key Changes | | |
|--|-------------------------|--------|
| Company | Target Price | Rating |
| 002672.SZ | 13.34 to 12.00 | - |
| 0895.HK | 14.70 to 13.60 | - |
| 0257.HK | 12.70 to 13.50 | - |
| 0270.HK | 13.50 to 13.20 | - |
| 1257.HK | 7.70 to 7.90 | - |
| 1363.HK | 1.26 to 1.29 | - |
| SIIC.SI | 0.63 to 0.61 | - |
| Source: Deutsche E | Bank | |
| Top picks | | |
| China Everbri (0257.HK),HK | 0 | Buy |
| Source: Deutsche E | Bank | |
| Companies fea | atured | |
| Dongjiang Environmenta (0895.HK),HK | | Buy |
| China Everbri (0257.HK),HK | 0 | Buy |
| Guangdong Ir (0270.HK),HK | | Buy |
| Beijing Enterprises W (0371.HK),HK | | Buy |
| China Everbri Greentech (1257.HK),HK | | Buy |
| CT Environme | ental (1363.HK),HKD1.32 | Hold |
| SIIC Environm | nent (SIIC.SI),SGD0.52 | Buy |
| Source: Deutsche E | Bank | |

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companies that we cover. Our valuations are DCF-based; key risks include: fewerthan-expected project wins, lower-than-expected project returns.



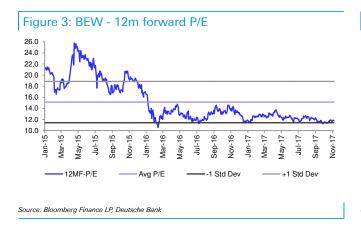
Share price performance and valuation

Stocks in China's environmental sector have had diverging performances recently. China Everbright Greentech (1257 HK, Buy) has outperformed MSCI China on a three-month basis, driven by strong 1H17 results and fast construction progress. On the other hand, CT Environmental (1363 HK, Hold) has underperformed significantly, due to low utilization, ASP and profitability for most of its assets in 1H17.



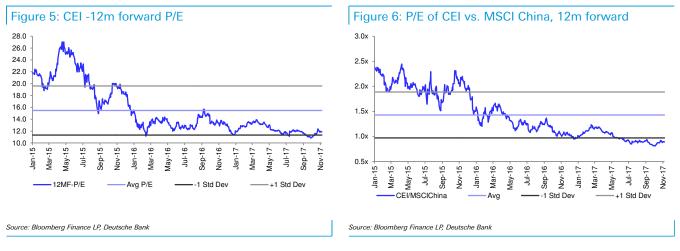


The sector's valuation looks attractive at current levels compared with its own trading history and also with the index. The P/Es of most stocks are below/close to their average minus one standard deviation since 2015, in terms of both their own PE and also relative PE to MSCI China. We think that the sector's current valuation offers decent safety margins to buy into most stocks.







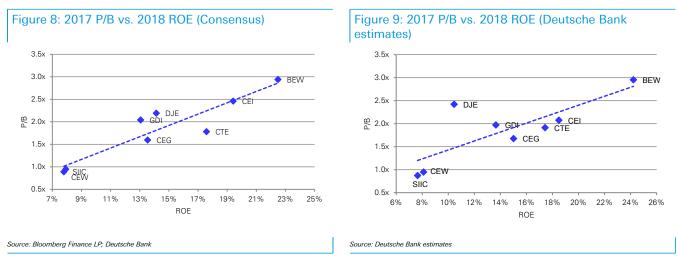


China usually strengthens environmental enforcement during the last three years of Five-Year Plan periods as the country gets closer to assessment deadlines. We expect the same to take place from 2018, especially as the CPC's 19th National Congress recently mentioned that China plans to set up a "National Natural Resources and Ecology Administration" soon. We expect these factors to benefit this laggard sector, together with improving cashflow profile/earnings quality with selective companies over the next few years. Top pick: CEI on potential earnings beat and improving free cashflow profile for its waste-to-energy segment.

| | | | | Price | % to | Vlkt. Cap | Avg. daily trade | EPS CAGR | | P/E | | | P/BV | | Net | t debt/Eq | uity | | RoE | | Divi | dend yi | ield |
|------------|---------------|------------|----------|----------|--------|-----------|------------------------|-------------|------|------|------|-----|------|-----|------|-----------|------|------|------|------|------|---------|------|
| Company | Ticker | Price | Rating | target | target | US\$m | US\$m | 17-19E | 17E | 18E | 19E | 17E | 18E | 19E | 17E | 18E | 19E | 17E | 18E | 19E | 17E | 18E | 19E |
| On recurri | ng earnings l | oasis (cor | ncession | accounti | ng) | | | | | | | | | | | | | | | | | | |
| BEW | 371 HK | 6.54 | Buy | 7.4 | 13% | 5,744 | 12.5 | 18% | 13.5 | 11.2 | 9.7 | 2.9 | 2.5 | 2.1 | 118% | 143% | 146% | 24.0 | 24.2 | 23.7 | 2.4 | 2.9 | 3.3 |
| CEI | 257 HK | 10.88 | Buy | 13.5 | 24% | 6,253 | 15.7 | 16% | 12.9 | 10.6 | 9.7 | 2.1 | 1.9 | 1.6 | 70% | 84% | 98% | 18.5 | 18.5 | 18.0 | 2.7 | 3.3 | 3.6 |
| CEG | 1257 HK | 6.81 | Buy | 7.9 | 16% | 1,805 | 2.1 | 23% | 14.5 | 10.7 | 9.6 | 1.7 | 1.5 | 1.3 | -5% | 20% | 58% | 15.6 | 15.0 | 14.9 | 1.4 | 1.9 | 2.1 |
| CEW | CEWL SP | 0.46 | Buy | 0.54 | 17% | 881 | 0.5 | 12% | 13.7 | 11.3 | 10.9 | 0.9 | 0.9 | 0.8 | 50% | 62% | 76% | 7.2 | 8.1 | 7.8 | 0.9 | 1.1 | 1.1 |
| CTEG | 1363 HK | 1.32 | Hold | 1.29 | (2%) | 1,069 | 5.3 | 18% | 13.5 | 10.2 | 9.6 | 1.9 | 1.6 | 1.4 | 60% | 49% | 32% | 16.8 | 17.4 | 16.0 | 1.5 | 1.9 | 2.0 |
| DJE-H | 895 HK | 12.12 | Buy | 13.6 | 12% | 1,958 | 1.1 | 17% | 20.5 | 17.9 | 14.9 | 2.4 | 1.6 | 1.4 | 69% | 15% | 35% | 12.7 | 10.4 | 10.1 | 1.0 | 1.2 | 1.4 |
| GDI | 270 HK | 11.46 | Buy | 13.2 | 15% | 9,129 | 9.1 | 4% | 15.7 | 14.5 | 14.6 | 2.0 | 1.9 | 1.9 | -14% | -18% | -22% | 13.5 | 13.7 | 13.0 | 4.2 | 4.9 | 5.2 |
| SIIC | SIIC SP | 0.52 | Buy | 0.61 | 18% | 853 | 0.7 | 10% | 12.1 | 10.9 | 10.0 | 0.9 | 0.8 | 0.8 | 81% | 89% | 93% | 7.6 | 7.6 | 7.8 | 1.2 | 1.4 | 1.5 |
| Average e | x. GDI | | | | | | | 16% | 14.4 | 11.8 | 10.6 | 1.8 | 1.5 | 1.4 | 63% | 66% | 77% | 14.6 | 14.5 | 14.0 | 1.6 | 1.9 | 2.2 |

Note: Price and target price are in HKD, except for SIIC and CEW, which are in SGD; price are closing price on 9 Nov, 2017 Source: Company data; Deutsche Bank estimates





Earnings revisions and Deutsche Bank vs. consensus

BEW: We fine-tune our earnings forecasts for 2017-19e and keep our target price flat at HKD7.4. Our earnings are 5-3% above consensus in 2017-19e.

CEG: We fine-tune our earnings forecast in 2017/18e but raise 19e earnings by 7%, backed on higher RMB exchange rate assumptions and additional project wins recently. Our target price is lifted to HKD 7.90 on the back of the earnings change. Our earnings are 3%/11% above consensus in 2017/19e (but in-line for 2018e), likely because we factor in faster project construction and also recent project wins.

CEI: We raise our earnings forecast in 17/18/19e by 6%/14%/9%, driven by the strong WTE project winning, shortened preparation and appreciation of the RMB. WTE project construction progress in 2017 is stronger than expected and thus boosts the construction revenue growth. Thanks to simplified approval procedures, the construction preparation stage has generally been shortened. We also fine-tune the foreign exchange rate to reflect a stronger RMB over HKD. Our target price is increased from HKD12.70 to HKD13.50 as a result of the earnings revision. Our earnings are 7%/9%/6% above consensus for 2017/18/19e, likely driven by faster construction progress and also recent project wins.

CEW: We revise our earnings forecast by -6%/1%/-7% in 17/18/19e, mainly due to slower capacity addition and higher minority interest assumptions. We maintain our target price at SGD0.54. Our earnings are 6% below consensus for 2017e (but in-line for 2018-19e), likely driven by lower construction revenue assumption for 2017e.

CTEG: We keep our earnings unchanged but raise our target price slightly to HKD1.29 on higher RMB exchange rate assumptions. Our earnings are 14%/8% below consensus in 2017/19e (but in-line for 2018e), likely because of lower utilization rates and margin assumptions.

DJE-A & DJE-H: We fine-tune our recurring earnings forecasts in 2018-19e but lower our forecasts by 7% in 2017e on higher minority interests assumptions to stay in line with 3Q17 results. We significantly lower our EPS forecasts

for 2018-19e as we factor in the planned A-share placement. We assume the placement will be done in mid-2018 at RMB15/sh for 153m shares. We lower our target price to HKD13.6, driven by lower long-term profitability assumptions and also the potential new share issue. Our earnings forecasts are 7% below consensus in 2017e (but in-line for 2018/19e), likely because of lower utilization and higher minority interest assumptions.

GDI: We fine-tune our earnings forecasts in 2017/19e, but raise our forecast by 10% in 2018e, driven by higher earnings assumptions for Water Group HK, and a higher profit contribution from Guangdong Land. We now factor in Guangdong Investment adding 500ktpd of water capacity in 2018e on the back of the company's strong water capacity addition in 8M17. We factor in earnings contribution from Guangdong Land based on consensus, which expects its 2018 earnings to grow significantly, supposedly as its property projects enter into delivery stage from 2018. We fine-tune our target price to HKD13.2. Our earnings are 11% below consensus in 2017e as we have not factored in the bargain purchase and revaluation gains, which are not recurring. Our earnings are 5% above consensus in 2018e, likely as a result of the difference in factoring in the earnings contribution from Guangdong Land. Our earnings are in-line in 2019e.

SIIC: We fine-tune our earnings forecasts in 2017-19e and slightly lower our target price to SGD0.61 on slightly higher tax rates assumptions. Our earnings are in line with consensus.

| | Rep | orted earni | ings | 9 | % of chang | е | Recu | urring earr | nings | (| % of chang | е | Re | ecurring EP | S | % | of change | | 1 | Target pric | ce |
|---------|-------|-------------|-------|-------|------------|-------|-------|-------------|-------|-------|------------|-------|-------|-------------|-------|-------|-----------|-------|------|-------------|--------|
| Company | 2017E | 2018E | 2019E | 2017E | 2018E | 2019E | 2017E | 2018E | 2019E | 2017E | 2018E | 2019E | 2017E | 2018E | 2019E | 2017E | 2018E | 2019E | New | Old | Change |
| BEW | 4,298 | 5,126 | 5,943 | 2% | 1% | -1% | 4,228 | 5,126 | 5,943 | 2% | 1% | -1% | 0.48 | 0.58 | 0.67 | 2% | 1% | -2% | 7.4 | 7.4 | 0% |
| CEI | 3,768 | 4,597 | 5,052 | 6% | 14% | 9% | 3,768 | 4,597 | 5,052 | 6% | 14% | 9% | 0.84 | 1.03 | 1.13 | 6% | 14% | 9% | 13.5 | 12.7 | 6% |
| CEG | 971 | 1,315 | 1,468 | 0% | 0% | 7% | 971 | 1,315 | 1,468 | 0% | 0% | 7% | 0.47 | 0.64 | 0.71 | 0% | 0% | 7% | 7.9 | 7.7 | 3% |
| CEW | 504 | 610 | 633 | -6% | 1% | -7% | 504 | 610 | 633 | -6% | 1% | -7% | 0.19 | 0.23 | 0.24 | -6% | 1% | -7% | 0.54 | 0.54 | 0% |
| CTEG | 583 | 698 | 735 | 0% | 0% | 0% | 524 | 698 | 735 | 0% | 0% | 0% | 0.08 | 0.11 | 0.12 | 0% | 0% | 0% | 1.3 | 1.3 | 2% |
| DJE-H | 448 | 559 | 733 | -7% | -2% | -3% | 448 | 559 | 733 | -7% | -2% | -3% | 0.50 | 0.57 | 0.69 | -7% | -10% | -17% | 13.6 | 14.7 | -7% |
| GDI | 4,671 | 5,177 | 5,160 | 3% | 10% | 5% | 4,671 | 5,177 | 5,160 | 3% | 10% | 5% | 0.73 | 0.79 | 0.79 | 3% | 10% | 5% | 13.2 | 13.5 | -2% |
| SIIC | 517 | 599 | 654 | -1% | 0% | -2% | 517 | 599 | 654 | -1% | 0% | -2% | 0.21 | 0.23 | 0.25 | -1% | 0% | -2% | 0.61 | 0.63 | -3% |

Note: Reported earnings and recurring earnings are in HKDm, except for SIIC and CTEG, which are in RMBm; target prices are in HKD, except for SIIC and CEW, which are in SGD Source: Deutsche Bank estimates

Figure 11: Deutsche Bank vs. consensus

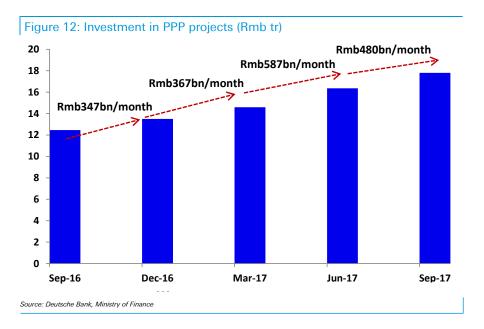
| | | 201 | 7E recurring ea | arnings | 201 | 8E recurring ea | arnings | 201 | 9E recurring ea | arnings |
|--------------|---------|-------|-----------------|-----------|-------|-----------------|-----------|-------|-----------------|-----------|
| | | | | DBe vs. | | | DBe vs. | | | DBe vs. |
| Company name | Ticker | DB | Consensus | consensus | DB | Consensus | consensus | DB | Consensus | consensus |
| BEW | 0371.HK | 4,228 | 4,013 | 5% | 5,126 | 4,915 | 4% | 5,943 | 5,745 | 3% |
| CEG | 1257.HK | 971 | 945 | 3% | 1,315 | 1,297 | 1% | 1,468 | 1,317 | 11% |
| CEI | 0257.HK | 3,768 | 3,534 | 7% | 4,597 | 4,208 | 9% | 5,052 | 4,783 | 6% |
| CEW | CEWL.SI | 504 | 535 | -6% | 610 | 613 | 0% | 633 | 636 | 0% |
| CTEG | 1363.HK | 524 | 608 | -14% | 698 | 704 | -1% | 735 | 801 | -8% |
| DJE-H | 0895.HK | 448 | 469 | -5% | 559 | 602 | -7% | 733 | 749 | -2% |
| GDI | 0270.HK | 4,671 | 5,238 | -11% | 5,177 | 4,935 | 5% | 5,160 | 5,232 | -1% |
| SIIC | SIIC.SI | 517 | 499 | 4% | 599 | 599 | 0% | 654 | 690 | -5% |

Note: Net earnings are in HKDm, except for SifC, CTEG, DJE-H and DJE-A, which are in Ki Source: Deutsche Bank estimates, Bloomberg Finance LP

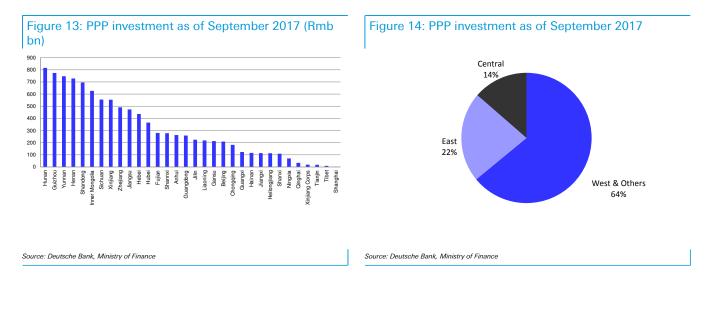
PPP industry dynamic

PPP rollouts continue at a fast pace

PPP rollouts in China have continued at a fast pace over the past few months. As of September 2017, investment in PPP projects in the Ministry of Finance's (MoF) database reached Rmb17.8tr, with average monthly additions of Rmb480bn in 3Q17.

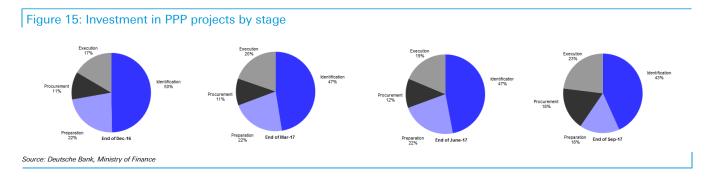


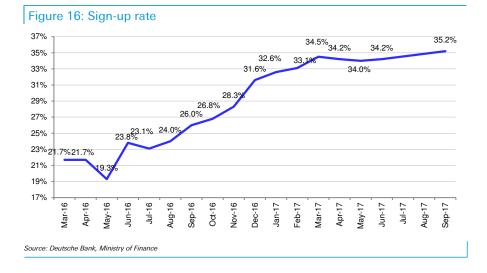
Looking at geographic distribution, West China, East China and Central China represent 64%, 22% and 14% of total investments, respectively. Specifically, investments in Hunan, Guizhou, Yunnan, Henan and Shandong rank as the top five.



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Looking at investments by stage, projects in the execution stage reached RMB4.1tr by September (23% of overall investment), up from 19% by June. In terms of the sign-up rate (published by the MoF), the rate rose from 34% by June 2017 to 35% by September 2017.





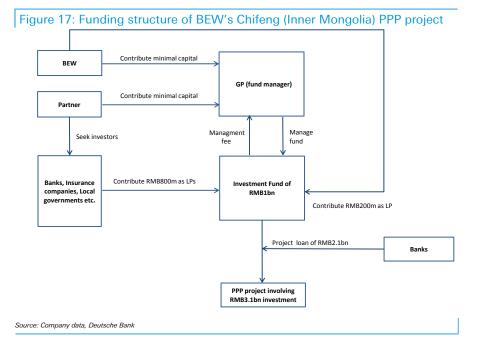
Investment summary

Beijing Enterprises Water (BEW) - Maintaining Buy

Stock view: We maintain our Buy on BEW on valuation. BEW is trading at a cheap valuation of 11.4x PE in 2018e (EPS growth of 15.5% in 2019e), close to average minus standard deviation since 2015. Our calculation shows that the company would need to carry out cash EPC equivalent to 11% of PPP project investment (ex-relocation expenses) if the company is to reach cashflow break-even for its PPP projects during the construction stage. We expect re-rating with BEW's shares if the company manages to achieve this, which we believe depends on: 1) EPC experience requirements from specific projects and 2) BEW's negotiation power with its construction partners.

Cashflow from PPP projects financed by investment funds...

BEW started using investment funds to carry out its PPP projects from April 2017 and plans to use the investment fund model for almost all of its PPP projects going forward. We calculate that profits from investment funds should represent 45% of BEW's net profit in 2018-19e. We believe the market has well understood the earnings impact from the PPP funds and we believe that the key to BEW's share price is how much cash the company can collect from the PPP projects.



Key assumptions for our PPP projects cashflow analysis include:

- PPP order size of RMB60bn, in line with the company's guidance for new sign-ups in 2017
- 25% of the total order size is related to relocation and therefore no construction/design fee/technical service fees can be booked on that part

- BEW charging total technical service fees of 11%, consisting of 4% design fee and 7% technology transfer fee
- Technical services fees generating 50% gross margin with minimal SG&A expenses
- Income tax rate of 25%
- PPP fund representing 20% of total project investment
- BEW contributing 20% of capital to PPP fund
- BEW generating 15% from potential EPC

Specifically, our assumption for BEW contributing 20% of total project investment is in line with the capital structure of the Chifeng PPP fund. While BEW does not have to contribute capital for the China Life fund at the parent fund level, BEW does have to contribute capital as junior tranche investor when children funds are set up to invest in specific projects.

According to our calculations, BEW would reach cashflow break-even during the construction stage if the company can obtain EPC orders equal to 11% of PPP order size ex-relocation expenses. We understand that BEW has obtained EPC qualification this year and we think how much EPC BEW can successfully carry out depends on: 1) possible requirement on EPC experience from specific projects (e.g. a PPP project in Hainan requires companies to have EPC experience with projects of at least RMB400m) and 2) BEW's negotiation power with its construction partners.

| (RMB bn) | | | Comment |
|---|-------|---------|---|
| PPP order size | 60 | а | Company guidance |
| PPP order size ex-relocation expenses | 45 | b=a*75% | 25% of PPP investment related to relocation |
| Technical service fees from PPP orders | 5.0 | c=b*11% | 11% design fees and technical service fees together |
| Gross profit from technical service fees | 2.5 | d=c*50% | Assume blended gross margin of 50% |
| Net profit/Operating cash inflow from technical service fees | 1.9 | e=d*75% | 25% tax rate |
| Investment fund to support PPP order | 12 | f=a*20% | Investment fund 20% of total project investment |
| BEW's capital contribution | 2.4 | g=f*20% | BEW contributes 20% of investment fund |
| unding gap | (0.5) | h=e-g | |
| Net profit/Operating cash inflow needed from EPC | 0.5 | i=-h | |
| Gross profit needed from EPC | 0.7 | j=i/75% | Tax rate of 25% |
| Revenue needed from EPC | 4.8 | k=j/15% | Assume gross margin of 15% |
| EPC revenue as % of total PPP order size ex-relocation expenses | 11% | l=k/b | |
| Source: Company data, Deutsche Bank estimates | | | |

...and from water plants

For the cashflow from water plants, we start with the company's adjusted operating cashflow in 2016. The company reported that after adjusting the "capex" for BOT/TOT/BT projects from operating cashflow to investment cashflow, adjusted operating cashflow should be HKD2.3bn in 2016. Key assumptions for our following analysis include:

• Operating capacity growing by 3mtpd p.a. going forward

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Unit capex of RMB2,000/tpd for water plants

| IKD m) | 2016 | 2017E | 2018E | 2019E |
|--|---------|---------|---------|---|
| eported OCF | (2,500) | | | |
| djustment for cash flow from BOT projects | 3,929 | | | |
| djustment for cash flow from TOT projects | 559 | | | |
| djustment for cash flow from comprehensive renovation projects | 265 | | | |
| djusted OCF | 2,253 | | | |
| ewage treated (tonnes m) | 3,052 | 3,474 | 4,147 | 4,849 a |
| ariff (HKD/tonne) | 1.18 | 1.14 | 1.16 | 1.17 b |
| leveue from sewage treatment (HK\$m) | 3,604 | 3,949 | 4,810 | 5,697 c=a*b |
| Profit Margin | 56% | 57% | 57% | 57% d |
| aross profit from sewage | 2,017 | 2,251 | 2,732 | 3,225 e=c*d |
| /ater supply (tonnes m) | 588 | 755 | 1,180 | 1,842 f |
| ariff (HKD/ton) | 1.77 | 1.75 | 1.78 | 1.80 g |
| leveue from water supply (HK\$m) | 1,042 | 1,325 | 2,102 | 3,315 h=f*g |
| Profit Margin | 49% | 49% | 49% | 49% i |
| iross profit from water supply | 510 | 649 | 1,026 | 1,611 j=h*i |
| otal water treatment gross profit (HKD m) | 2,527 | 2,900 | 3,757 | 4,836 k |
| oy | | 15% | 30% | 29% |
| djusted OCF excluding BT | 1,988 | 2,281 | 2,956 | 3,804 × |
| oy | | 15% | 30% | 29% m=l |
| apex for water plants | | (7,059) | (7,059) | (7,059) n=-2000*3000/0.85/1000, assume unit capex of RMB2,000/tpd |
| let cashflow from BEW's water plants | | (4,777) | (4,103) | (3,255) Y=X+n |

Based on our assumptions, BEW's free cashflow profile for the water plants is likely to improve gradually, although it is likely to remain negative over the next few years. While we have not factored in the discharge standard upgrades in our calculation, we note that the conclusion should be similar - improving the cashflow profile, but free cashflow to remain negative.

Valuation: We derive our target price using the DCF method, incorporating a 6.2% WACC (CoD 3.4%, 0.90 beta and 5.6% ERP yielding an 8.9% CoE), which incorporates longer-term growth and is not affected by the mismatch between reported earnings and cashflows under concession accounting.

Risks: The main downside risks include: 1) credit risk on the receivables from local governments; 2) delays in implementing cost pass-through for wastewater (including the impact of the VAT rule change) and water supply projects; 3) rising competition for new water projects; 4) stress on managerial and financial resources from rapid expansion; 5) political or foreign exchange risks for overseas investment; 6) larger-than-expected EPS dilution from potential share placements; and 7) any delay in project construction due to the relatively high reliance on earnings from construction activities in the near term (as opposed to recurring earnings from operational wastewater and water supply projects).

Figure 20: Summary for BEW

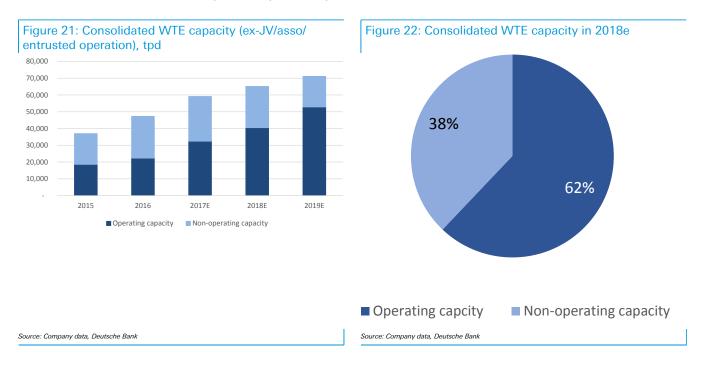
| HK\$ m | 2015 | 2016 | 2017E | 2018E | 2019E |
|--|--------|--------|--------|--------|--------|
| Year-end contracted capacity (ktpd) | | | | | |
| Sewage treatment | 13,808 | 15,674 | 16,880 | 18,690 | 20,500 |
| Water supply | 10,497 | 11,175 | 14,325 | 16,515 | 18,705 |
| Overseas | 319 | 319 | 463 | 463 | 463 |
| Year-end operational capacity (ktpd) | | | | | |
| Sewage treatment | 8,965 | 10,454 | 12,520 | 14,557 | 16,412 |
| Water supply | 3,961 | 5,704 | 6,725 | 9,188 | 11,432 |
| Overseas | 91 | 319 | 463 | 463 | 463 |
| Utilisation | | | | | |
| Sewage treatment | 85% | 88% | 86% | 85% | 87% |
| Water supply | 56% | 66% | 59% | 60% | 61% |
| Tariff (HK\$/cm, ex-VAT) | | | | | |
| Sewage treatment | 1.47 | 1.18 | 1.14 | 1.16 | 1.17 |
| Water supply | 2.20 | 2.17 | 2.15 | 2.18 | 2.20 |
| Revenue (HK\$ m) | | | | | |
| Sewage treatment | 3,515 | 3,654 | 4,036 | 4,884 | 5,745 |
| Water supply | 881 | 1,371 | 1,930 | 2,746 | 3,788 |
| Construction for comprehensive renovation | 1,890 | 4,612 | 9,121 | 767 | 882 |
| Water plant construction | 6,441 | 6,696 | 4,811 | 3,959 | 3,256 |
| Technical services | 776 | 1,021 | 1,531 | 2,037 | 2,342 |
| Others | - | - | - | - | - |
| Total | 13,503 | 17,355 | 21,430 | 14,392 | 16,013 |
| Gross profit (HK\$ m) | | | | | |
| Sewage and reclaimed water treatment | 2,166 | 2,044 | 2,301 | 2,774 | 3,252 |
| Water supply | 448 | 672 | 946 | 1,340 | 1,841 |
| Construction for comprehensive renovation | 454 | 1,015 | 1,733 | 146 | 168 |
| Construction of water plants | 1,466 | 1,473 | 1,155 | 950 | 782 |
| Technical services for water environmental | 456 | 576 | 842 | 1,120 | 1,288 |
| Others | - | - | - | - | - |
| Total | 4,989 | 5,780 | 6,976 | 6,330 | 7,330 |
| Gross profit margin | | | | | |
| Sewage and reclaimed water treatment | 62% | 56% | 57% | 57% | 57% |
| Water supply | 51% | 49% | 49% | 49% | 49% |
| Construction for comprehensive renovation | 24% | 22% | 19% | 19% | 19% |
| Construction of water plants | 23% | 22% | 24% | 24% | 24% |
| Technical services for water environmental | 59% | 56% | 55% | 55% | 55% |
| Others | | | | | |
| Total | 37% | 33% | 33% | 44% | 46% |
| JV & associate (HK\$ m) | | | | | |
| Share of JV & asso | 175 | 375 | 1,269 | 3,248 | 3,725 |
| | | | | | |
| Net income (HK\$ m) | | | | | |
| Net income (HK\$ m) Net income | 2,455 | 3,227 | 4,298 | 5,126 | 5,943 |

China Everbright Intl (CEI) - Recommending Buy

Stock view: We rate CEI as our sector top pick on potential earnings beat and also an improving free cashflow profile for the WTE segment and earnings quality. We revise up earnings forecasts for CEI on fast project construction (as a result of shortened preparation and construction periods) for its WTE projects and our earnings forecasts are now 7%/9% above consensus in 2017/18e. We calculate that operational capacity should represent 62%/74% of total capacity by end-2018/19e (vs. 55% by end-2017e) and we expect CEI's to get close to free cashflow positive for its WTE segment as a higher proportion of capacities come into operation. With the stock now trading at ~10.7x PE in 2018e (close to average minus standard deviation since 2015), we expect the stock to re-rate with improving cashflow/earnings quality (operating earnings as % of total rising from ~40% in 2017e to ~50% in 2019e).

Cashflow improvement to come

We expect CEI's free cashflow profile for the WTE segment to improve over the next few years, as significantly higher proportion of capacities should become operational. We calculate that operational capacity should represent 62%/74% of total capacity by end-2018/19e, up significantly from 55% by end-2017e. We think this is especially positive as management made it clear that free cashflow from WTE will be used to support higher dividend payouts. Any capex demand for China Everbright Water (CEWL SP, Buy) and China Everbright Greentech (1257 HK, Buy) is going to be satisfied by debt/equity funding of respective listcos, rather than by the cashflow from CEI's WTE business (refer to our report <u>China Environmental - Environmental Corporate Day takeaways, 17 October 2017</u>).



We calculate WTE segment's free cashflow profile going forward based on the following key assumptions:

- Operating cashflow of HKD195/t of waste treated, same as what Canvest (1381 HK, not rated) reported for FY16
- CEI generating 17% construction cost savings

| Real "operating cashflow" - WTE | 2016 | 2017E | 2018E | 2019E |
|--|---------|---------|---------|--------------------|
| Vaste processed ('000 tons) | 8,933 | 11,235 | 16,737 | 21,273 a |
| Real "operating cashflow" - WTE (HK\$m) | 1,742 | 2,191 | 3,264 | 4,148 b=195*a/1000 |
| Estimated capex requirement - WTE (HK\$m) | 2016 | 2017E | 2018E | 2019E |
| Estimated capex requirement - WTE, nominal | 4,624 | 6,127 | 5,792 | 6,166 c |
| ess: cost saving | (786) | (1,042) | (985) | (1,048) d=-c*17% |
| Estimated capex requirement - WTE, effective | 3,838 | 5,085 | 4,807 | 5,118 e=c+d |
| Cash surplus/deficit - WTE (HK\$m) | 2016 | 2017E | 2018E | 2019E |
| Cash surplus/(deficit) - WTE, nominal | (2,882) | (3,936) | (2,528) | (2,018) f=b-c |
| Cash surplus/(deficit) - WTE, effective | (2,096) | (2,895) | (1,544) | (970) g=b-e |

Our calculation shows that the WTE segment's free cashflow profile should improve from -HKD2.9bn in 2017e to -HKD970m in 2019e, positioning the segment well for positive free cashflow and higher dividend in the following years.

Valuation: We derive our target price using DCF valuation, which is not affected by the mismatch between reported earnings and cashflows under concession accounting. We use explicit cashflows to 2051e, with no terminal value, discounted at 6.1% WACC (beta of 0.9, ERP of 5.6%, yielding a CoE of 8.9%, pretax CoD of 3.5%, and a D/E ratio of 45:55).

Risks: Key downside risks include: 1) lower-than-expected new project wins; 2) variations on operating assumptions for the WTE and greentech business, given that there is limited transparency for these businesses; 3) delay in the construction progress of new projects; 4) lower-than-expected construction cost savings and government subsidies; and 5) EPS dilution risk from potential share placement.

Figure 24: Summary for CEI

| | 2015 | 2016 | 2017E | 2018E | 2019E |
|--|--------|---------|---------|---------|---------|
| Year-end operational capacity (consolidated basis) | | | | | |
| Waste-to-Energy (tpd) | 18,550 | 22,400 | 32,400 | 40,450 | 52,800 |
| Water (ktpd) | 3,602 | 3,907 | 4,057 | 4,197 | 4,345 |
| Biomass to Power (MW) | 60 | 145 | 265 | 415 | 751 |
| Hazardous Waste (tpa) | 63,650 | 130,980 | 140,980 | 213,980 | 333,980 |
| Utilisation | | | | | |
| Waste-to-Energy | 123% | 126% | 120% | 125% | 125% |
| Wastewater Treatment | 96% | 89% | 91% | 94% | 94% |
| Biomass to Power | 91% | 87% | 85% | 86% | 86% |
| Hazardous Waste | 84% | 107% | 95% | 90% | 90% |
| Tariff (ex-VAT) | | | | | |
| Waste-to-Energy Power (RMB/kWh) | 0.56 | 0.56 | 0.55 | 0.54 | 0.54 |
| Waste-to-Energy Treatment Fee (RMB/t) | 75 | 63 | 63 | 62 | 61 |
| Wastewater Treatment (RMB/t) | 1.2 | 1.1 | 1.1 | 1.2 | 1.2 |
| Biomass to Power (RMB/kWh) | 0.64 | 0.64 | 0.64 | 0.64 | 0.64 |
| Hazardous Waste (RMB/t) | 2,172 | 2,414 | 2,486 | 2,511 | 2,536 |
| Revenue (HKD m) | | | | | |
| Environmental Energy | 5,400 | 7,905 | 10,611 | 10,917 | 13,043 |
| Environmental Water | 1,815 | 2,494 | 3,484 | 4,387 | 4,697 |
| Greentech | 1,178 | 3,026 | 4,646 | 7,285 | 8,956 |
| Envirotech | 135 | 546 | 534 | 561 | 589 |
| Others | 6 | - | - | - | - |
| Total | 8,535 | 13,971 | 19,275 | 23,151 | 27,284 |
| EBITDA (HKD m) | | | | | |
| Environmental Energy | 2,608 | 3,300 | 4,517 | 5,691 | 6,286 |
| Environmental Water | 796 | 844 | 1,105 | 1,329 | 1,420 |
| Greentech | 458 | 1,020 | 1,543 | 2,174 | 2,660 |
| Envirotech | 521 | 417 | 66 | 69 | 73 |
| Inter-segment Elimination & Others | (599) | (434) | - | - | - |
| Total | 3,784 | 5,147 | 7,230 | 9,263 | 10,439 |
| EBITDA margin | | | | | |
| Environmental Energy | 48% | 42% | 43% | 52% | 48% |
| Environmental Water | 44% | 34% | 32% | 30% | 30% |
| Greentech | 39% | 34% | 33% | 30% | 30% |
| Envirotech | n.a. | n.a. | 12% | 12% | 12% |
| Inter-segment Elimination & Others | n.a. | n.a. | n.a. | n.a. | n.a. |
| Overall | 44% | 37% | 38% | 40% | 38% |
| Source: Deutsche Bank estimates | | | | | |

Guangdong Investment (GDI) - Recommending Buy

Stock view: We like GDI for its defensive water business, growing dividends and strong balance sheet. With more than 50% of earnings from water sales in HKD terms, GDI is the most defensive among its environmental peers in relation to potential RMB depreciation. We expect GDI to deliver a recurring profit CAGR of 4% in 2017-19e and to increase its dividend payout ratio by ~5 percentage points per annum, resulting in a DPS CAGR of 12% in 2017-19e. GDI is in a net cash position (HKD10.8bn or HKD1.65 per share net cash after considering available-for-sale investments by Jun 2017) and is trading at an attractive dividend yield of 5.3% in 2019e. We think the results of the upcoming HK water supply negotiation, GDI's dividend outlook and also the US treasury yield are key for GDI's share price.

In-line 3Q17 and EPS impact from Yinping project likely small in 2018/19e

Guangdong Investment reported in-line 9M17 results with recurring profit of HKD3.7bn, up 8% yoy. GDI expects capex of RMB2.9bn for the water segment, comprising RMB876m for the projects in Meizhou/Jiangsu/Zhaoqing, RMB381m for the projects in Yunfu and RMB1,639m for the projects in Shantou. Revenue of the Tianjin Teem Shopping Mall reached HKD37.6m in 3Q, after opening in end-June and the mall made profit of HKD2.4m in 3Q. GDI incurred capex of HKD176m for the Buxin project and HKD49m for the Panyu Wanbo project in 3Q17. Management expects the Yinping PPP project to commence soon.

/

- Eight sub-projects in total
- 1st project commencing construction in early 2018, with the other projects commencing at 0.5 year intervals afterwards
- Average project size of HKD699m
- Construction period of three years and maintenance period of 10 years
- Accrued interest at 8%, management fee at 2.5%, maintenance fee at 1.1%, tax rate at 25%

Under our assumptions, the profit contribution from the Yinping project should be only HKD23m/82m in 2018/19e, representing less than 2% of total earnings of GDI. However, we note that earnings contribution could be more significant beyond 2019e as more sub-projects kick in. We calculate that the project should generate IRR of 6%, higher than the 2.4% return the company is generating from its available-for-sale financial assets and cash.

| Figure 2E: Dengguen Ving | ing F | | raiaat | | | | | | | | | | | | | | |
|---------------------------------------|-------|-------|----------|---------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Figure 25: Dongguan Yinp | 2018E | 2019E | 2020E | 2021E | 2022E | 2023E | 2024E | 2025E | 2026E | 2027E | 2028E | 2029E | 2030E | 2031E | 2032E | 2033E | 2034E |
| Capex (cash) | 2018 | 20192 | 20202 | 20215 | 20220 | 20236 | 2024L | 2025E | 2020E | 2027E | 20200 | 2029E | 2030E | 2031E | 2032E | 2033E | 20340 |
| Cumulative capex | 233 | 466 | 699 | 699 | 699 | 699 | 699 | 699 | 699 | 699 | 699 | 699 | 699 | | | | |
| Repayment of development costs | | | | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | | | | |
| Outstanding development costs | 233 | 466 | 699 | 629 | 559 | 489 | 419 | 349 | 279 | 210 | 140 | 70 | - | | | | |
| Period avg. development costs | 116 | 359 | 620 | 751 | 742 | 731 | 720 | 707 | 694 | 680 | 664 | 648 | 630 | | | | |
| Accrued int. | 9 | 29 | 50 | 60 | 59 | 58 | 58 | 57 | 56 | 54 | 53 | 52 | 50 | | | | |
| Cumulative int. | 9 | 38 | 88 | 148 | 207 | 266 | 323 | 380 | 435 | 490 | 543 | 595 | 645 | | | | |
| Repayments of accrued int.+ principal | | | | (134) | (134) | (134) | (134) | (134) | (134) | (134) | (134) | (134) | (134) | | | | |
| Income (cash) | | | | | | | | | | | | | | | | | |
| Accrued int. | - | - | - | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | | | | |
| Mgt fee | - | - | - | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | | | |
| Maintenance fee | - | - | - | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | | |
| Total | (233) | (233) | (233) | 137 | 137 | 137 | 137 | 137 | 137 | 137 | 137 | 137 | 137 | | | | |
| After tax | (233) | (233) | (233) | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | | | | |
| IRR | 6% | | | | | | | | | | | | | | | | |
| Income statement | | | | | | | | | | | | | | | | | |
| Accrued int. | 9 | 29 | 50 | 60 | 59 | 58 | 58 | 57 | 56 | 54 | 53 | 52 | 50 | | | | |
| Mgt fee | 6 | 6 | 6 | | | | | | | | | | | | | | |
| Maintenance fee | | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | | |
| Total | 15 | 35 | 55 | 61 | 60 | 59 | 58 | 57 | 56 | 55 | 54 | 53 | 51 | | | | |
| Profit contribution from 8 projects | 23 | 82 | 182 | 302 | 399 | 459 | 476 | 472 | 464 | 456 | 448 | 438 | 428 | 343 | 234 | 129 | 26 |
| Cash inflow/(outflow) from 8 projects | (349) | (815) | (1,281) | (1,243) | (689) | (18) | 654 | 821 | 821 | 821 | 821 | 821 | 821 | 719 | 513 | 308 | 103 |
| Total capex on 8 projects | (349) | (815) | (1, 281) | (1,397) | (1,048) | (582) | (116) | | | | | | | | | | |

Source: Company data, Deutsche Bank estimates

Valuation: Our SOTP-derived target price consists of the NAV discount method for the commercial property segment and DCF methodology for the other segments, based on a WACC of 6% for water, and 8% for the other sectors.

Risk: Key downside risks include the following: 1) lower-than-expected revenue for raw water sales to Hong Kong in future revenue resets after 2017; 2) acquisition or asset injection at expensive valuations; 3) higher-than-expected tariff cuts and coal costs, or lower-than-expected utilization rates for its thermal plant business; and 4) lower-than-expected rental yields for its commercial property project, especially for new projects under development.



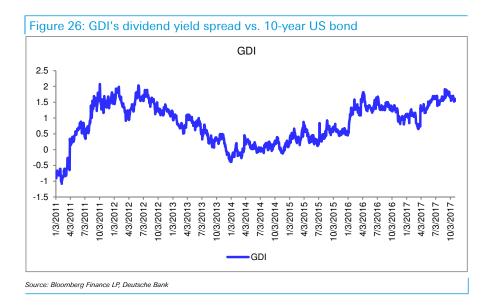


Figure 27: Summary for GDI

| | 2015 | 2016 | 2017E | 2018E | 2019E |
|--|-------|--------|--------|--------|--------|
| Year-end capacity | | | | | |
| Water supply | | | | | |
| Water Group HK (RMB/ m3) | 145 | 555 | 1212 | 1394 | 1467 |
| Waste water (RMB/ m3) | 142 | 143 | 160 | 160 | 160 |
| Power plant (Rmb/ kWh) | 110 | 355 | 600 | 600 | 600 |
| Utilization rate | | | | | |
| Water supply | | | | | |
| Water Group HK (RMB/ m3) | 60% | 50% | 52% | 54% | 56% |
| Waste water (RMB/ m3) | 90% | 90% | 90% | 90% | 90% |
| Power plant (Rmb/ kWh) | 68% | 62% | 48% | 50% | 52% |
| Tariff (ex VAT) | | | | | |
| Water supply | | | | | |
| Hong Kong (HK\$/ m3) | 5.51 | 7.14 | 7.59 | 7.71 | 7.82 |
| Shenzhen and Dongguan (RMB/ m3) | 0.62 | 0.83 | 0.92 | 0.92 | 0.92 |
| Water Group HK (RMB/ m3) | 2.41 | 2.21 | 2.26 | 2.30 | 2.35 |
| Waste water (RMB/ m3) | 0.93 | 0.91 | 0.95 | 0.95 | 0.95 |
| Power plant (Rmb/ kWh) | 0.49 | 0.37 | 0.38 | 0.38 | 0.38 |
| Revenue (HK\$ mn) | | | | | |
| - Water distribution | 5,896 | 6,505 | 7,367 | 7,686 | 7,891 |
| Property investment and dev. | 1,171 | 1,130 | 1,229 | 1,526 | 1,404 |
| - Department stores | 813 | 717 | 739 | 728 | 717 |
| - Electric power generation | 471 | 847 | 1,093 | 1,139 | 1,184 |
| - Toll roads and bridges | 150 | 630 | 685 | 733 | 818 |
| - Hotel O&M | 672 | 634 | 642 | 660 | 679 |
| - Others | - | - | - | - | - |
| Total | 9,172 | 10,464 | 11,755 | 12,471 | 12,693 |
| EBITDA (excl. interest income) | | | | | |
| Water distribution | 3,852 | 4,471 | 5,304 | 5,495 | 5,602 |
| Electric power generation | 189 | 405 | 284 | 410 | 426 |
| Toll roads and bridges | 166 | 542 | 557 | 602 | 683 |
| Property investment | 1,078 | 1,104 | 882 | 1,157 | 995 |
| Department stores | 282 | 206 | 298 | 294 | 291 |
| Hotel operations and management | 226 | 192 | 254 | 261 | 269 |
| Others | (124) | (219) | 72 | 74 | 77 |
| Total | 5,668 | 6,701 | 7,653 | 8,293 | 8,342 |
| EBITDA margin (excl. interest income) | | | | | |
| Water distribution | 65% | 69% | 72% | 72% | 71% |
| Electric power generation | 16% | 36% | 23% | 27% | 30% |
| Toll roads and bridges | 20% | 76% | 75% | 83% | 95% |
| Property investment | 229% | 130% | 81% | 102% | 84% |
| Department stores | 188% | 33% | 43% | 40% | 36% |
| Hotel operations and management | 34% | 30% | 40% | 40% | 40% |
| Others | - | - | - | - | - |
| Total | 62% | 64% | 65% | 67% | 66% |
| Source: Deutsche Bank estimates; company data | | | | | |

Dongjiang Environmental (DJE) - Recommending Buy

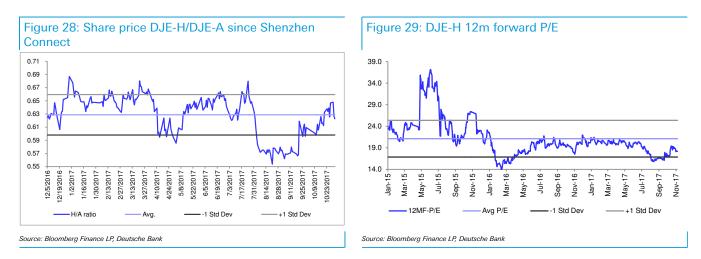
Stock view: We like Dongjiang on the strong capacity growth outlook for China's hazardous waste treatment market and Dongjiang's leading market position. We expect Dongjiang to deliver recurring EPS CAGR of 17% in 2017-19E. This should be driven by the capacity growth and utilization rate rise in the industrial waste treatment division.

3Q17 results in line

Dongjiang reported in-line 9M17 results with recurring profit up 17% yoy. Management guides for 0% to 25% recurring earnings growth for 2017e and we forecast recurring earnings growth of 17% yoy. We expect Dongjiang's hazardous waste treatment capacities to reach 930/1,089/1,395 ktpa at end-2017/18/19e, implying a CAGR of 22% in 2017-19e.

In September 2017, Dongjiang announced that it has acquired an 80% stake in Wanside (Tangshan Caofeidian) Enviro & Tech Ltd., which has a total hazardous waste treatment capacity of 58.2 ktpa and is expected to complete construction by end-2018. In the same month, Dongjiang announced the acquisition of a 30% stake in Foshan Fulong Enviro & Tech Ltd., which focuses on industrial solid waste treatment in Foshan, and has a total hazardous waste treatment capacity of 49.7 ktpa.

The company recently announced that three members of management (CEO and two Vice Presidents) plan to sell 5.5m shares of Dongjiang, representing 18% of their shareholdings or 0.6% of Dongjiang's total share capital. Management mentioned that they plan to sell the shares for personal financial needs and they will be allowed to sell the shares between November 13, 2017 and May 12, 2018.



Valuation: We derive our target price using DCF valuation with explicit cash flows through to 2026e and a terminal value, discounted at a 7.3% WACC (RFR of 3.9%, beta of 1.3, and ERP of 5.6%, yielding a CoE of 11.2%; pre-tax CoD of 4.4%; and a D/E ratio of 50:50).

Risks: Downside risks include: 1) fluctuations in China's industrial activity, 2) slower capacity ramp-ups, 3) lower-than-expected metal prices, 4) lower-than-expected margins, as Dongjiang may have to pay higher prices to source raw materials, and 5) possible changes in China's policies on VAT changes.

Figure 30: Summary for DJE

| | 2014 | 2015 | 2016 | 2017E | 2018E | 2019E |
|---|---------|---------|---------|---------|---------|--------|
| Year-end operational capacity (ktpa) | | | | | | |
| Industrial waste recycling | 401 | 613 | 711 | 760 | 798 | 838 |
| Industrial waste treatment and disposal | 135 | 578 | 773 | 930 | 1,089 | 1,395 |
| Total | 536 | 1,190 | 1,484 | 1,690 | 1,887 | 2,233 |
| Sales volume (kt) | | | | | | |
| Industrial waste recycling | 69 | 63 | 68 | 82 | 86 | 90 |
| Industrial waste treatment and disposal | 165 | 235 | 327 | 493 | 714 | 912 |
| Revenue (Rmb m) | | | | | | |
| Industrial waste recycling | 938 | 773 | 791 | 1,156 | 1,209 | 1,480 |
| Industrial waste treatment and disposal | 396 | 587 | 843 | 1,134 | 1,659 | 2,140 |
| Municipal waste treatment and disposal | 209 | 273 | 306 | 181 | 181 | 181 |
| Renewable energy utilisation | 64 | 89 | 92 | 92 | 92 | 92 |
| Environmental engineering and services | 159 | 200 | 245 | 314 | 342 | 342 |
| Trading | 61 | 86 | 119 | 119 | 119 | 119 |
| Dismantling household appliances | 221 | 395 | 221 | 26 | 8 | 8 |
| Other emerging business | - | - | - | 67 | 87 | 113 |
| Total | 2,048 | 2,403 | 2,617 | 3,089 | 3,697 | 4,475 |
| Cost (Rmb m) | | | | | | |
| Industrial waste recycling | (654) | (538) | (531) | (819) | (872) | (1,054 |
| Industrial waste treatment and disposal | (167) | (284) | (422) | (601) | (879) | (1,134 |
| Municipal waste treatment and disposal | (175) | (225) | (239) | (156) | (157) | (157 |
| Renewable energy utilisation | (46) | (66) | (59) | (64) | (64) | (64 |
| Environmental engineering and services | (120) | (151) | (187) | (238) | (260) | (260 |
| Trading | (34) | (24) | (29) | (36) | (36) | (36 |
| Dismantling household appliances | (186) | (337) | (206) | (26) | (8) | (8 |
| Other emerging business | - | - | - | (53) | (69) | (90 |
| Total | (1,382) | (1,624) | (1,672) | (1,994) | (2,345) | (2,804 |
| Gross profit margin | | | | | | |
| Industrial waste recycling | 30% | 30% | 33% | 29% | 28% | 29% |
| Industrial waste treatment and disposal | 58% | 52% | 50% | 47% | 47% | 47% |
| Municipal waste treatment and disposal | 16% | 18% | 22% | 14% | 13% | 13% |
| Renewable energy utilisation | 28% | 26% | 36% | 30% | 30% | 30% |
| Environmental engineering and services | 25% | 24% | 24% | 24% | 24% | 24% |
| Trading | 45% | 73% | 76% | 70% | 70% | 70% |
| Dismantling household appliances | 16% | 15% | 7% | 0% | 0% | 0% |
| | 25% | 24% | 24% | 20% | 20% | 20% |
| Other emerging business | | | | | | |

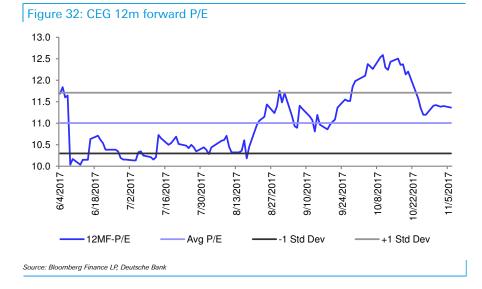
China Everbright Greentech (CEG) - Buy

Stock view: We like China Everbright Greentech (CEG) on its strong project pipeline, excellent project management, decent project returns and potential synergy with its parent company, China Everbright Int'I. We expect CEG's recurring profit to increase by 50% in 17e and register a CAGR of 23% in 17-19e, driven by a strong project pipeline. Kaidi Ecological (000939 CH, not rated), an A-share peer with CEG, announced that the company's power generation from its biomass power plants reached 760 GWh in October, up 33% yoy and up 6% mom. Our conversation with management shows that biomass raw material supplies remain abundant and the prices remain stable.

CEG recently won the Huaiyuan WTE project and the Zhecheng urban-rural integration project, with investment of RMB410m and RMB357m respectively. Management expects to see 20 new projects in total in 2017 and no less than that in FY18, half of which should be from HWT. Management also expects to win soil remediation projects by 1H18.

| Figure 31: CEG forecast summary | | | | | |
|---------------------------------|--------|---------|---------|---------|-----------|
| | 2015 | 2016 | 2017E | 2018E | 2019E |
| Year-end operational capacity | | | | | |
| Biomass to power (MW) | 60 | 145 | 265 | 415 | 751 |
| Biomass to heat (tpa) | - | 525,600 | 525,600 | 963,600 | 1,011,050 |
| Urban-rural WTE (tpa) | - | 146,000 | 438,000 | 766,500 | 1,697,250 |
| Hazardous waste (tpa) | 63,650 | 130,980 | 140,980 | 213,980 | 333,980 |
| Utilization rate | | | | | |
| Biomass to power | 91% | 87% | 85% | 86% | 86% |
| Biomass to heat | - | 65% | 36% | 39% | 42% |
| Urban-rural WTE | - | 76% | 92% | 92% | 93% |
| Hazardous waste | 84% | 107% | 95% | 90% | 90% |
| Tariff (ex-VAT) | | | | | |
| Biomass to power (Rmb/kWh) | 0.64 | 0.64 | 0.64 | 0.64 | 0.64 |
| Biomass to heat (Rmb/t) | - | 205 | 197 | 199 | 201 |
| Urban-rural WTE (Rmb/kWh) | - | 0.56 | 0.56 | 0.56 | 0.56 |
| Hazardous waste (Rmb/t) | 2,172 | 2,414 | 2,486 | 2,511 | 2,536 |
| EBITDA profit (HKD m) | | | | | |
| Biomass | 301 | 667 | 1,163 | 1,734 | 2,145 |
| Hazardous waste | 82 | 189 | 244 | 344 | 472 |
| Renewables | 78 | 199 | 208 | 210 | 211 |
| Total | 460 | 1,054 | 1,615 | 2,288 | 2,828 |
| EBITDA profit mix | | | | | |
| Biomass | 65% | 63% | 72% | 76% | 76% |
| Hazardous waste | 18% | 18% | 15% | 15% | 17% |
| Renewables | 17% | 19% | 13% | 9% | 7% |
| Total | 100% | 100% | 100% | 100% | 100% |

Source: Deutsche Bank estimates



Valuation: We derive our target price using a DCF valuation with explicit cash flows to 2051e and no terminal value, discounted at a 7.1% WACC (RFR of 3.9%, beta of 1.3, ERP of 5.6%, yielding a CoE of 10.9%, pre-tax CoD of 4.5% and a

D/E ratio of 50:50). The DCF valuation is not affected by the mismatch between reported earnings and cash flows under concession accounting.

Risks: The main downside risks include: 1) poor raw material price control; 2) rising competition for new projects; 3) delay in construction progress of new projects; 4) lower-than-expected utilisation rate; and 5) possible changes in China's policies.

SIIC Environment (SIIC) - Maintaining Buy

Stock view: We maintain our Buy rating on SIIC Environment (SIIC) on its growth prospects and attractive valuation. We expect SIIC to deliver recurring profit growth of 52% in 2017e and a CAGR of 12% in 2017-19e, driven by water capacity addition. SIIC is trading at an attractive valuation of 14.4x in 2018e, if we exclude non-cash construction earnings, much lower than industry average. We expect SIIC to get re-rated if the company completes its Hong Kong dual listing.

SIIC announced in October that it has received approval by the Wuhan Water Bureau to commence commercial operations for the expansion and upgrading project of the Hanxi Waste Water Treatment plant. The daily design capacity of the Hanxi plant has been raised to 600 ktpd from 400 ktpd with a discharge standard of Grade 1B, and the processing fee increased from RMB0.723/t to RMB1.139/t. The guaranteed minimum treatment volume for the first two years is 560,000 t/ d and 600,000 t/d from the third year on.

Key takeaway from 3Q17 results conference call

SIIC has been preparing for HK listing by way of introduction, but management no longer gives timeline guidance. The company will hold an extraordinary general meeting after it files listing document in Hong Kong. Finance cost in 3Q17 was 4.7% - the company did not replace high-cost debt of Longjiang during 3Q17. In 3Q17, water supply tariff was RMB2.38/tonne, while WWT tariff reached RMB1.05/tonne, and management expect the tariffs to increase in the future on discharge standard upgrades. Management expects large amount of constructions to be carried out in the near future and expects to achieve its 1-1.5mtpd guidance for each year, including 2017. Operation revenue decreased QoQ in 3Q17 was due to treatment operation disruption as result of discharge standard upgrades but should normalize after the upgrades are done. Management expects FY17 tax rate to be ~27%.

Valuation: We derive our target price using a DCF valuation with explicit cash flows to 2050 and no terminal value, discounted at a 6.8% WACC (RFR of 3.9%, beta of 1.0, and ERP of 5.6% yielding a CoE of 9.5%, pre-tax CoD of 4.5%, and D/E ratio of 45:55). The DCF valuation is not affected by the mismatch between reported earnings and cash flows under concession accounting.

Risk: The main downside risks include the following: 1) rising competition for new projects; 2) regulatory risks, including delays in implementing cost pass-through for wastewater and water supply projects, especially for the impact of the VAT rule change; 3) credit risk on the receivables from local governments or other customers; 4) lower-than-expected project wins; 5) EPS dilution from potential equity placement; and 6) possible higher share price volatility due to relatively low trading liquidity.

Figure 33: SIIC 12m forward P/E



| Figure 34: Summary for SIIC | | | | | |
|-------------------------------------|-------------|-------|-------|-------|--------|
| | 2015 | 2016 | 2017E | 2018E | 2019E |
| Year-end capacity (ktpd, consolida | ated basis) | | | | |
| WWT | 4,737 | 8,178 | 8,978 | 9,778 | 10,578 |
| Water supply | 1,895 | 1,895 | 1,895 | 1,895 | 1,895 |
| Utilization | | | | | |
| WWT | 100% | 86% | 75% | 76% | 77% |
| Water supply | 57% | 50% | 50% | 51% | 52% |
| Tariffs (RMB/t, ex-VAT) | | | | | |
| WWT | 0.9 | 0.8 | 0.9 | 0.9 | 1.0 |
| Water supply | 1.6 | 2.2 | 2.4 | 2.4 | 2.4 |
| Revenue (RMB m) | | | | | |
| Construction | 523 | 1,031 | 2,045 | 2,045 | 1,636 |
| Operation + Finance Income | 1,087 | 1,348 | 2,334 | 2,587 | 2,923 |
| Others | 193 | 269 | 272 | 272 | 272 |
| Total | 1,804 | 2,648 | 4,652 | 4,904 | 4,831 |
| Gross profit (RMB m) | | | | | |
| Construction | 65 | 124 | 245 | 245 | 196 |
| Operation + Finance Income | 574 | 578 | 1,120 | 1,239 | 1,397 |
| Others | 73 | 111 | 119 | 119 | 119 |
| Total | 712 | 812 | 1,485 | 1,604 | 1,713 |
| Gross margins | | | | | |
| Construction | 13% | 12% | 12% | 12% | 12% |
| Operation + Finance Income | 53% | 43% | 48% | 48% | 48% |
| Others | 38% | 41% | 44% | 44% | 44% |
| Overall | 39% | 31% | 32% | 33% | 35% |
| Source: Company Data, Deutsche Bank | | | | | |

CT Environmental (CTEG) - Maintaining Hold

Stock view: We maintain our Hold rating on CT Environmental (CTEG). The utilization/ASP/profitability of sludge treatment, hazardous waste treatment and industrial water supply was lower than expected, and we still see uncertainty over the profitability of its upcoming Guangyuan project, which may suffer from insufficient industrial customers.

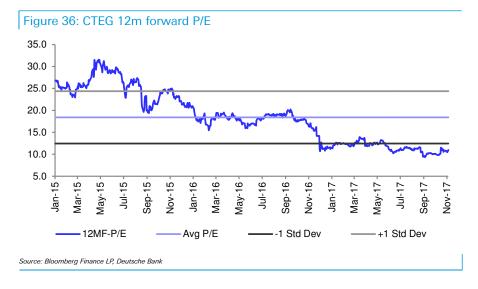
CTEG plans to spin off its solid waste and hazardous waste business for a separate listing but did not provide much detail on the matter, although we expect little impact from that in the near term. We believe it will be quite some time before

CTEG can regain investor confidence and the profitability uncertainty over its upcoming projects is cleared.

| Figure 35: Summary for CT | - Envi | ronme | ntal | |
|---|--------------|----------------|----------------|----------------|
| rigure co. cummary for or | | 2017E | | 2019E |
| Average operational capacity (t/d) | 2010 | | LUIUL | LOTOL |
| | 30,000 | 293,333 | 390,000 | 390,000 |
| | 35,000 | 565,833 | 622,500 | 625,000 |
| | 55,000 | 165,000 479 | 165,000 | 165,000 |
| Industrial waste Sludge | 274 3.063 | 3,667 | 1,575 4,242 | 2,055 4,242 |
| | 29,000 | 781,000 | 839,000 | 879,000 |
| WTE | | 300 | 600 | 600 |
| Utilization rate | | | | |
| Industrial water supply | 56% | 49% | 49% | 48% |
| WWT BOO | 62% | 62% | 62% | 62% |
| WWT BOT | 95% | 95% | 95% | 95% |
| Industrial waste Sludge | 78% 120% | 57% 90% | 60% 95% | 63% 95% |
| Hazardous waste | 47% | 50 % 6% | 9% | 10% |
| WTE | | 80% | 90% | 100% |
| Volume (mt) | | | | |
| Industrial water supply | 57 | 52 | 69 | 68 |
| WWT BOO | 98 | 128 | 141 | 141 |
| WWT BOT | 57 | 57 | 57 | 57 |
| Industrial waste Sludge | 0.1 1.3 | 0.1 1.2 | 0.3 1.5 | 0.5 1.5 |
| WTE treatment volume | 1.3 | 0.1 | 0.2 | 0.2 |
| WTE electricity (mn kWh) | - | 29 | 66 | 73 |
| Tariff (Rmb/t) | | | | |
| Industrial water supply | 1.1 | 1.1 | 1.1 | 1.1 |
| WWT BOO | 4.3 | 3.9 | 3.9 | 3.9 |
| WWT BOT | 1.0 | 1.0 | 1.0 | 1.0 |
| Industrial waste Sludge | 586 286 | 586 334 | 586 344 | 586 354 |
| WTE treatment fee | 245.0 | 245.0 | 245.0 | 245.0 |
| WTE electricity (Rmb/kWh, ex. VAT) | | 0.5 | 0.5 | 0.5 |
| Revenue (Rmb m) | | | | |
| Industrial water supply | 58 | 58 | 73 | 73 |
| Wastewater treatment plants operation | 470 | 496 | 545 | 547 |
| BOT construction and operation | 334 | 180 | 109 | 109 |
| Heating service Sludge & solid waste treatment | 121 440 | 150 461 | 155 710 | 159 800 |
| Entrusted operations | 440 | 401 | 0 | 000 |
| Hazardous waste treatment | 435 | 532 | 585 | 644 |
| Total | 1,866 | 1,876 | 2,177 | 2,332 |
| Adjusted EBITDA (Rmb m) | | | | |
| Industrial water supply | 47 | 36 | 45 | 44 |
| Wastewater treatment plants operation BOT construction and operation | 327 87 | 396 46 | 428 39 | 421 34 |
| Heating service | 8 | 40 | 11 | 34 11 |
| Sludge & solid waste treatment | 247 | 226 | 341 | 376 |
| Entrusted operations | 9 | 0 | 0 | 0.0 |
| Hazardous waste treatment | 308 | 356 | 383 | 412 |
| Elimination | -5 | 0 | 0 | 0 |
| Total | 1,027 | 1,071 | 1,247 | 1,299 |
| Adjusted EBITDA margin Industrial water supply | 81% | 62% | 61% | 60% |
| Wastewater treatment plants operation | 70% | 80% | 79% | 77% |
| BOT construction and operation | 26% | 25% | 36% | 31% |
| Heating service | 7% | 7% | 7% | 7% |
| Sludge & solid waste treatment | 56% | 49% | 48% | 47% |
| Entrusted operations | NA | 0% | 0% | 0% |
| Hazardous waste treatment | 71% | 67% | 66% | 64% |
| Elimination Total | 0% 55% | 0% 57% | 0% 57% | 0% 56% |
| Iotai | JJ /0 | 51% | 51% | JU % |

Source: Deutsche Bank estimates

/



Valuation: We derive our target price using a DCF valuation, with explicit cash flows to 2026e and a terminal value, discounted at 6.9% WACC (RFR of 3.9%,beta of 1.3, ERP of 5.6%, yielding a CoE of 11.2%, pre-tax CoD of 3.5%, and a D/E ratio of 50:50).

Risk: Key downside risks include: 1) closure or relocation of existing industrial customers or lower-than-expected utilization rate due to economic growth slowdown; 2) credit risk on receivables from customers, especially industrial customers; 3) slower-than-expected expansion through winning new projects; 4) failure to meet environmental discharge standards; 5) EPS dilution from potential equity placement; and 6) lower-than-expected return on new projects or unsuccessful expansion into new businesses. Upside risks: 1) faster-than-expected project ramp-ups; and 2) stronger-than-expected new project wins.

China Everbright Water (CEW) - Maintaining Buy

Stock view: We maintain a Buy rating on CEW on its strong growth prospects, synergies with China Everbright Intl. - its parent company, a strong balance sheet and attractive valuation. Management sees benefits in a better regulated PPP market and has won three sizable projects this year. We forecast that CEW's recurring profit should register a CAGR of 12% in 17-19e. We expect CEW to benefit from its parent's strong connections with local governments, strong brand name in fund sourcing, and collaboration in packaged PPP projects. CEW's leverage (net debt/equity) was at only 43% by Jun 2017 and the company's funding sources also include PPP funds, panda bonds, etc., providing sufficient financial resources for future projects.

Strong projects won and low capital pressure

The industry has now many of the projects packaged into large PPP projects, thus CEW has an advantage over other competitors, as it can collaborate with its parent in project bidding. CEW has won several sizable projects this year. The Suizhou (Hubei) Water environment renovation project and Zhangqiu (Shandong) water supply project were sealed in 1H17 and are now in the preparatory stage. In 2H17, CEW won Nanning (Guangxi) shuitang river integrated restoration PPP project with an investment of RMB1.5bn and started construction at the end of

September. 2H17 construction revenue is expected to be higher than 1H17, as management previously guided.

In the coming 1-2 years, management expects to benefit from tariff hikes from its upgrade projects (from 1B to 1A) in 1H17. Around 70%-80% of CEW projects now are Grade 1A, while the rest are mainly Grade 1B.

CEW may have to rely on its own sources for future project funding, but we believe this will not be a big issue given its low gearing ratio at ~43%, and relatively low finance cost at ~4.3%. The company issued a panda bond of RMB1bn in July (4.55% coupon rate with five-year maturity), and launched a water investment fund in August (RMB 10bn off-balance-sheet) for PPP projects.

| Figure 37: Summary for CEW | | | | | |
|--|-------|-------|-------|-------|-------|
| | 2015 | 2016 | 2017E | 2018E | 2019E |
| Year-end capacity (ktpd, consolidated basis) | | | | | |
| Design capacity | 4,587 | 5,132 | 5,132 | 5,332 | 5,532 |
| Operational capacity | 3,602 | 3,907 | 4,057 | 4,197 | 4,345 |
| Utilization | | | | | |
| WWT | 96% | 89% | 91% | 94% | 94% |
| Reusable water | 46% | 49% | 52% | 55% | 58% |
| Tariffs (RMB/t, ex-VAT) | | | | | |
| WWT | 1.2 | 1.1 | 1.1 | 1.2 | 1.2 |
| Reusable water | 4.1 | 3.9 | 4.0 | 4.0 | 4.1 |
| Revenue (HKD m) | | | | | |
| Construction | 592 | 1,143 | 1,976 | 2,692 | 2,917 |
| Operation + Finance Income | 1,223 | 1,351 | 1,508 | 1,696 | 1,780 |
| Total | 1,815 | 2,494 | 3,484 | 4,387 | 4,697 |
| Gross profit (HKD m) | | | | | |
| Construction | 135 | 193 | 356 | 484 | 525 |
| Operation + Finance Income | 689 | 713 | 784 | 882 | 926 |
| Total | 824 | 906 | 1,140 | 1,366 | 1,451 |
| Gross margin | | | | | |
| Construction | 23% | 17% | 18% | 18% | 18% |
| Operation + Finance Income | 56% | 53% | 52% | 52% | 52% |
| Overall | 45% | 36% | 33% | 31% | 31% |
| Source: Deutsche Bank estimates | | | | | |

/



Valuation: We derive our target price using a DCF valuation with explicit cash flows to 2051 and no terminal value, discounted at a WACC of 7.3% (RFR of 3.9%, beta of 1.4, EQR of 5.6%, and therefore a CoE of 11.6%; post tax CoD of 3.0%; and D/E of 50:50). Our DCF valuation is not affected by the mismatch between reported earnings and cash flows under concession accounting.

Risks: The main downside risks include: 1) rising competition for new projects; 2) regulatory risks such as delays in implementing cost pass-through for waste water (including the impact from VAT rule changes) and water supply projects; 3) credit risk on the receivables from local governments or other customers; 4) fewer-than-expected project wins; 5) EPS dilution from potential equity placement; and 6) possible higher share price volatility due to relatively low trading liquidity.

Model updated: 03 November 2017

| Running Asia | the numbers |
|-----------------|-------------|
| China | |
| Utilities | |

Dongjiang Environmental

Reuters: 0895.HK Bloom

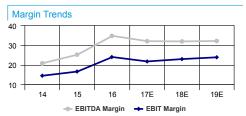
Buy

| Duy | |
|------------------|-----------------------------|
| Price (9 Nov 17) | HKD 12.12 |
| Target Price | HKD 13.60 |
| 52 Week range | HKD 10.30 - 14.00 |
| Market cap (m) | HKDm 15,273 USDm 1.958.1 |

Company Profile

Dongjiang Environmental Company Ltd is primarily focused on industrial waste treatment and recycling, with small business exposure to municipal waste treatment. The company is a leader in industrial hazardous waste treatment in China and holds permits to treat more than 40 different types of hazardous wastes. The company is dual-listed in Hong Kong and mainland China.









| | Financial Summary | | |
|--|-------------------------------------|--------------|--------------|
| | DB EPS (CNY) | 0.28 | 0.34 |
| | Reported EPS (CNY) | 0.30 | 0.38 |
| | DPS (CNY) | 0.15 | 0.08 |
| | BVPS (CNY) | 2.8 | 3.2 |
| | Weighted average shares (m) | 846 | 869 |
| 1 | Average market cap (CNYm) | 8,758 | 15,224 |
| 1 | Enterprise value (CNYm) | 9,481 | 17,051 |
| nberg: 0895 HK | Valuation Metrics | | |
| | | 27.0 | 31.4 |
| | P/E (DB) (x) P/E (Reported) (x) | 27.0 | 28.1 |
| | P/BV (x) | 3.04 | 3.34 |
| HKD 12.12 | | | |
| | FCF Yield (%) | nm 1.9 | nm 0.7 |
| HKD 13.60 | Dividend Yield (%) | | •••• |
| D 10.30 - 14.00 | EV/Sales (x) | 4.6 | 7.1 |
| D 10.30 - 14.00 | EV/EBITDA (x) EV/EBIT (x) | 22.3 32.1 | 28.2 42.8 |
| HKDm 15,273 | EV/EBIT (X) | 32.1 | 42.0 |
| USDm 1,958.1 | Income Statement (CNYm) | | |
| | Sales revenue | 2,048 | 2,403 |
| | Gross profit | 786 | 968 |
| narily focused on | EBITDA | 426 | 605 |
| small business | Depreciation | 96 | 143 |
| ompany is a leader | Amortisation | 35 | 64 |
| na and holds | EBIT | 295 | 398 |
| f hazardous wastes. | Net interest income(expense) | -24 | -65 |
| mainland China. | Associates/affiliates | 32 | 28 |
| | Exceptionals/extraordinaries | -47 | -13 |
| | Other pre-tax income/(expense) | 65 | 100 |
| | Profit before tax | 322 | 449 |
| | Income tax expense | 39 | 64 |
| فيبهم مرمودين | Minorities | 31 | 53 |
| and the second sec | Other post-tax income/(expense) | 0 | 0 |
| me in | Net profit | 252 | 333 |
| | DB adjustments (including dilution) | -13 | -35 |
| | | | |

Fiscal year end 31-Dec

2014

2015

2016

0.43

0.61

0.13

3.7

878

14,055

16,108

23.7

16.8

3.12

0.1

1.2

6.2

17.7

25.7

2,617

1,190

910

175

108

627

-96

16

2017E

0.50

0.50

0.11

42

890 12,990

16,508

20.5

20.5

2.44

nm

1.0

5.3 16.7

24.6

3,089

1.380

991

229

671

-101

27

90

13 -8 0 0 0 00 49 134 0 0 ٥ 674 597 753 1.002 64 97 94 68 136 53 43 80 101 134 0 0 0 0 0 33 534 448 559 733 -35 -155 0 0 0 DB Net profit 239 298 379 448 559 733 Cash Flow (CNYm) Cash flow from operations 166 228 690 -108 704 879 Net Capex -978 -925 -681 -1,324 -1,376 -2,478 Free cash flow -1,432 146 -813 -697 9 -672 -1,599Equity raised/(bought back) 132 160 2,679 64 8 Dividends paid -128 -248 -249 -107 -126 -94 Net inc/(dec) in borrowings 903 714 420 883 -434 1,835 Other investing/financing cash flows -4 14 -16 -22 -40 -53 Net cash flow 89 -208 324 -533 1,439 119 Change in working capital -296 -432 -119 -956 -289 -360 Balance Sheet (CNYm) Cash and other liquid assets 1,028 858 1,160 627 2,066 2,185 Tangible fixed assets 790 1,300 1,397 2,462 3,575 4,650 1,857 1,710 153 Goodwill/intangible assets 849 1,413 1,947 1,781 Associates/investments 101 150 153 153 153 Other assets 2,217 3,532 4,216 4,594 2,965 6,166 14,863 5.074 Total assets 4,985 6,685 8,189 9,315 12,169 Interest bearing debt 1.455 2.369 2.790 3.673 3.239 Other liabilities 691 1,097 1,534 1,241 1,325 1,435 Total liabilities 3,466 4,323 4,915 4,565 6,509 2,147 3,775 625 Shareholders' equity 2.442 2.753 3.289 6.919 7.588 . 396 466 577 685 766 Minorities Total shareholders' equity 2,839 3,220 3,866 4,400 7,604 8,354 Net debt 428 1,511 1,629 3.046 1,173 2,889 **Key Company Metrics** Sales growth (%) 29.3 17.4 8.9 18.0 19.7 21.1 DB EPS growth (%) EBITDA Margin (%) 14.1 32.0 29.9 20.3 26.1 16.6 20.8 20.8 25.2 34.8 32.2 32.1 EBIT Margin (%) 24.0 21.7 22.9 23.8 14.4 16.6 Payout ratio (%) 50.4 20.7 20.9 20.9 20.9 20.9 ROE (%) 10.7 128 177 127 10.4 10 1 Capex/sales (%) 47 8 42.9 37 2 44 8 46.5 55 4 Capex/depreciation (x) 7.5 5.2 6.7 4.3 4.1 4.1 Net debt/equity (%) 15.1 46.9 42.2 69.2 15.4 34.6

Source: Company data, Deutsche Securities estimates

12.2

6.2

6.5

Net interest cover (x)



0.57

0.57

0.12

6.6

972

12,990

14,696

17.9

17.9

1.57

nm

1.2

4.0

12.4

17.3

3,697

1,644

1,181

258

847

-124

30

76

0.69

0.69

0.15

7.2

1 056

12,990

16,492

14.9

14.9

1.44

nm

1.4

3.7

11.5

15.5

4,475

1.993

1,439

1,067

301

71

-95

31

6.9

11.2

6.6



| Model updated: 03 Novem | ber 2017 |
|-----------------------------|----------------------|
| Running the numbers Asia | |
| China | |
| Utilities | |
| Dongjiang Envir | onmental |
| Reuters: 002672.SZ | Bloomberg: 002672 CH |

Sell

| Price (9 Nov 17) | CNY 15.84 |
|------------------|-----------------------------|
| Target Price | CNY 12.00 |
| 52 Week range | CNY 15.13 - 19.94 |
| Market cap (m) | CNYm 10,282 USDm 1,549.8 |

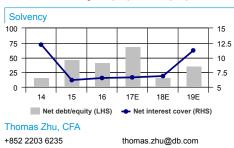
Company Profile

Dongjiang Environmental Company Ltd is primarily focused on industrial waste treatment and recycling, with small business exposure to municipal waste treatment. The company is a leader in industrial hazardous waste treatment in China and holds permits to treat more than 40 different types of hazardous wastes. The company is dual-listed in Hong Kong and mainland China.









| Fiscal year end 31-Dec | 2014 | 2015 | 2016 | 2017E | 2018E | 2019E |
|---|----------------|------------------|------------------|------------------|------------------|------------------|
| Financial Summary | | | | | | |
| DB EPS (CNY) | 0.28 | 0.34 | 0.43 | 0.50 | 0.57 | 0.69 |
| Reported EPS (CNY) DPS (CNY) | 0.30 0.15 | 0.38 0.08 | 0.61 0.13 | 0.50 0.11 | 0.57 0.12 | 0.69 0.15 |
| BVPS (CNY) | 2.8 | 3.2 | 3.7 | 4.2 | 6.6 | 7.2 |
| Weighted average shares (m) | 846 | 869 | 878 | 890 | 972 | 1,056 |
| Average market cap (CNYm) Enterprise value (CNYm) | 7,178 7,900 | 11,098 12,925 | 10,486 12,540 | 10,282 13,800 | 10,282 11,987 | 10,282 13,783 |
| | | | · · · | | | |
| Valuation Metrics | | | | | | |
| P/E (DB) (x) P/E (Reported) (x) | 39.7 37.7 | 57.1 51.1 | 41.0 29.1 | 31.5 31.5 | 27.6 27.6 | 22.8 22.8 |
| P/BV (x) | 4.93 | 6.37 | 4.75 | 3.75 | 2.41 | 2.21 |
| FCF Yield (%) | nm | nm | 0.1 | nm | nm | nm |
| Dividend Yield (%) | 1.3 | 0.4 5.4 | 0.7 | 0.7 | 0.8 3.2 | 0.9 3.1 |
| EV/Sales (x) EV/EBITDA (x) | 3.9 18.5 | 5.4 21.4 | 4.8 13.8 | 4.5 13.9 | 3.2 10.1 | 3.1 9.6 |
| EV/EBIT (x) | 26.7 | 32.5 | 20.0 | 20.6 | 14.1 | 12.9 |
| Income Statement (CNYm) | | | | | | |
| Sales revenue | 2,048 | 2,403 | 2,617 | 3,089 | 3,697 | 4,475 |
| Gross profit EBITDA | 786 426 | 968 605 | 1,190 910 | 1,380 991 | 1,644 1,181 | 1,993 1,439 |
| Depreciation | 96 | 143 | 175 | 229 | 258 | 301 |
| Amortisation EBIT | 35 295 | 64 398 | 108 627 | 90 671 | 76 847 | 71 1,067 |
| Net interest income(expense) | -24 | -65 | -96 | -101 | -124 | -95 |
| Associates/affiliates Exceptionals/extraordinaries | 32 -47 | 28 -13 | 16 -8 | 27 0 | 30 0 | 31 0 |
| Other pre-tax income/(expense) | 65 | 100 | 134 | 0 | 0 | 0 |
| Profit before tax | 322 39 | 449 64 | 674 97 | 597 | 753 94 | 1,002 136 |
| Income tax expense Minorities | 39 | 53 | 97 43 | 68 80 | 94 101 | 136 |
| Other post-tax income/(expense) | 0 | 0 | 0 | 0 | 0 | 0 |
| Net profit | 252 -13 | 333 -35 | 534 -155 | 448 0 | 559 0 | 733 0 |
| DB adjustments (including dilution) DB Net profit | 239 | 298 | 379 | 448 | 559 | 733 |
| Cash Flow (CNYm) | | | | | | |
| Cash flow from operations | 166 | 228 | 690 | -108 | 704 | 879 |
| Net Capex Free cash flow | -978 -813 | -925 -697 | -681 9 | -1,324 -1,432 | -1,376 -672 | -2,478 -1,599 |
| Equity raised/(bought back) | 132 | 8 | 160 | 146 | 2,679 | 64 |
| Dividends paid Net inc/(dec) in borrowings | -128 903 | -248 714 | -249 420 | -107 883 | -94 -434 | -126 1.835 |
| Other investing/financing cash flows | -4 | 14 | -16 | -22 | -40 | -53 |
| Net cash flow Change in working capital | 89 -296 | -208 -432 | 324 -119 | -533 -956 | 1,439 -289 | 119 -360 |
| Balance Sheet (CNYm) | | | | | | |
| Cash and other liquid assets | 1,028 | 858 | 1,160 | 627 | 2,066 | 2,185 |
| Tangible fixed assets | 790 | 1,300 | 1,397 | 2,462 | 3,575 | 4,650 |
| Goodwill/intangible assets Associates/investments | 849 101 | 1,413 150 | 1,947 | 1,857 | 1,781 | 1,710 153 |
| Other assets | 2,217 | 2,965 | 153 3,532 | 153 4,216 | 153 4,594 | 6,166 |
| Total assets | 4,985 | 6,685 | 8,189 | 9,315 | 12,169 | 14,863 |
| Interest bearing debt Other liabilities | 1,455 691 | 2,369 1,097 | 2,790 1,534 | 3,673 1,241 | 3,239 1,325 | 5,074 1,435 |
| Total liabilities | 2,147 | 3,466 | 4,323 | 4,915 | 4,565 | 6,509 |
| Shareholders' equity Minorities | 2,442 396 | 2,753 466 | 3,289 577 | 3,775 625 | 6,919 685 | 7,588 766 |
| Total shareholders' equity | 2,839 | 3,220 | 3,866 | 4,400 | 7,604 | 8,354 |
| Net debt | 428 | 1,511 | 1,629 | 3,046 | 1,173 | 2,889 |
| Key Company Metrics | 00.0 | A T A | 0.0 | 40.0 | 40.7 | 04.4 |
| Sales growth (%) DB EPS growth (%) | 29.3 29.9 | 17.4 20.3 | 8.9 26.1 | 18.0 16.6 | 19.7 14.1 | 21.1 20.8 |
| EBITDA Margin (%) | 20.8 | 25.2 | 34.8 | 32.1 | 32.0 | 32.2 |
| EBIT Margin (%) Payout ratio (%) | 14.4 50.4 | 16.6 20.9 | 24.0 20.7 | 21.7 20.9 | 22.9 20.9 | 23.8 20.9 |
| ROE (%) | 10.7 | 12.8 | 17.7 | 12.7 | 10.4 | 10.1 |
| Capex/sales (%) Capex/depreciation (x) | 47.8 7.5 | 44.8 5.2 | 46.5 4.3 | 42.9 4.1 | 37.2 4.1 | 55.4 6.7 |
| Net debt/equity (%) | 15.1 | 46.9 | 42.2 | 69.2 | 15.4 | 34.6 |

46.9 6.2

15.1 12.2 42.2 6.5

69.2 6.6

15.4 6.9

Source: Company data, Deutsche Securities estimates

Net debt/equity (%)

Net interest cover (x)

34.6 11.2

Model updated: 03 November 2017

| Running the numbers Asia | |
|-----------------------------|--|
| China | |
| Utilities | |

China Everbright Water

Reuters: CEWL.SI Bloomberg: CEWL SP

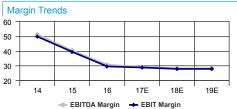
Buy

| Price (9 Nov 17) | SGD 0.46 |
|------------------|----------------------------|
| Target Price | SGD 0.54 |
| 52 Week range | SGD 0.42 - 0.55 |
| Market cap (m) | SGDm 1,199.7 USDm 881.8 |

Company Profile

China Everbright Water (CEW), a 74.4 percent-owned subsidiary of China Everbright Intl, is listed in Singapore. CEW is primarily engaged in the environmental water business, such as wastewater treatment, and reusable water, etc.. Upon the completion of reverse takeover of Hankore Environment (previously known as Bio-Treat) on 12 December 2014, CEW has expanded its water business with projects located across









| Fiscal year end 31-Dec | 2014 | 2015 | 2016 | 2017E | 2018E | 2019E |
|--|-----------------|-----------------|----------------|----------------|----------------|-----------------|
| Financial Summary | | | | | | |
| DB EPS (HKD) Benerted EBS (HKD) | 0.15 0.15 | 0.16 0.16 | 0.15 0.13 | 0.19 0.19 | 0.23 0.23 | 0.24 0.24 |
| Reported EPS (HKD) DPS (HKD) | 0.00 | 0.02 | 0.02 | 0.02 | 0.03 | 0.03 |
| BVPS (HKD) | 2.5 | 2.7 | 2.6 | 2.8 | 3.0 | 3.2 |
| Weighted average shares (m) Average market cap (HKDm) | 1,969 12,341 | 2,571 12,626 | 2,609 8,256 | 2,610 6,877 | 2,610 6,877 | 2,610 6,877 |
| Enterprise value (HKDm) | 13,042 | 15,018 | 10,842 | 10,231 | 11,448 | 12,973 |
| Valuation Metrics | | | | | | |
| P/E (DB) (x) | 40.9 | 30.5 | 21.7 | 13.7 | 11.3 | 10.9 |
| P/E (Reported) (x) P/BV (x) | 42.1 2.41 | 31.1 1.28 | 23.6 1.08 | 13.7 0.95 | 11.3 0.88 | 10.9 0.82 |
| FCF Yield (%) | 2.5 | 0.2 | 0.1 | nm | nm | nm |
| Dividend Yield (%) | 0.0 | 0.4 | 0.6 | 0.9 | 1.1 | 1.1 |
| EV/Sales (x) EV/EBITDA (x) | 12.4 24.2 | 8.3 20.6 | 4.3 14.2 | 2.9 10.1 | 2.6 9.3 | 2.8 9.8 |
| EV/EBIT (x) | 24.9 | 21.0 | 14.8 | 10.2 | 9.4 | 9.9 |
| Income Statement (HKDm) | | | | | | |
| Sales revenue | 1,051 | 1,815 | 2,494 | 3,484 1,140 | 4,387 | 4,697 |
| Gross profit EBITDA | 596 538 | 824 729 | 906 765 | 1,140 | 1,366 1,237 | 1,451 1,322 |
| Depreciation Amortisation | 14 1 | 14 1 | 15 15 | 14 0 | 16 0 | 16 0 |
| EBIT | 523 | 714 | 735 | 1,002 | 1,220 | 1,306 |
| Net interest income(expense) Associates/affiliates | -90 0 | -118 0 | -198 0 | -220 2 | -274 2 | -327 2 |
| Exceptionals/extraordinaries | 0 | 0 | 0 | 2 | 2 | 0 |
| Other pre-tax income/(expense) Profit before tax | 0 | 0 | 0 | 0 | 0 | 0 |
| Income tax expense | 433 119 | 596 172 | 537 165 | 785 212 | 948 255 | 982 263 |
| Minorities | 21 | 17 | 23 | 68 | 83 | 86 |
| Other post-tax income/(expense) Net profit | 0 293 | 0 406 | 0 349 | 0 504 | 0 610 | 0 633 |
| DB adjustments (including dilution) DB Net profit | 9 302 | 7 413 | 32 381 | 0 504 | 0 610 | 0 633 |
| Cash Flow (HKDm) | | | | | | |
| Cash flow from operations | 317 | 33 | 20 | -451 | -881 | -1,120 |
| Net Capex Free cash flow | -3 313 | -10 23 | -12 8 | -25 -476 | 0 -881 | 0 -1,120 |
| Equity raised/(bought back) | 0 | 659 | 0 | 0 | 0 | 0 |
| Dividends paid Net inc/(dec) in borrowings | 0 -149 | 0 2,909 | -12 310 | -50 797 | -46 1,123 | -60 1,147 |
| Other investing/financing cash flows | 88 | -2,787 | -366 | -317 | -413 | -478 |
| Net cash flow Change in working capital | 252 -173 | 803 -635 | -60 -642 | -46 -1,425 | -217 -2,069 | -512- 2,403- |
| | | | | | | |
| Balance Sheet (HKDm) Cash and other liquid assets | 681 | 1,769 | 1,903 | 1,857 | 1.640 | 1,129 |
| Tangible fixed assets | 174 | 163 | 148 | 159 | 143 | 127 |
| Goodwill/intangible assets Associates/investments | 1,994 667 | 2,709 893 | 2,445 792 | 2,463 936 | 2,516 1,142 | 2,575 1,361 |
| Other assets | 6,595 | 8,405 | 8,793 | 10,261 | 12,449 | 14,741 |
| Total assets | 10,112 | 13,939 | 14,080 | 15,675 | 17,890 | 19,932 |
| Interest bearing debt Other liabilities | 1,824 1,736 | 4,818 1,824 | 4,887 2,002 | 5,685 2,278 | 6,808 2,724 | 7,955 2,964 |
| Total liabilities | 3,560 | 6,642 | 6,890 | 7,963 | 9,532 | 10,918 |
| Shareholders' equity Minorities | 6,325 226 | 7,061 236 | 6,798 394 | 7,252 462 | 7,817 545 | 8,389 631 |
| Total shareholders' equity Net debt | 6,551 1,143 | 7,297 3,049 | 7,192 2,985 | 7,714 3,828 | 8,362 5,168 | 9,020 6,826 |
| | 1,145 | 3,043 | 2,303 | 3,020 | 3,100 | 0,020 |
| Key Company Metrics | 40.0 | 70 7 | 07 4 | ac 7 | 25.0 | |
| Sales growth (%) DB EPS growth (%) | -18.6 11.6 | 72.7 4.8 | 37.4 -9.2 | 39.7 32.3 | 25.9 21.0 | 7.1 3.7 |
| EBITDA Margin (%) | 51.2 | 40.2 | 30.7 | 29.2 | 28.2 | 28.2 |
| EBIT Margin (%) Payout ratio (%) | 49.8 0.0 | 39.4 12.2 | 29.5 13.1 | 28.8 12.0 | 27.8 12.0 | 27.8 12.0 |
| ROE (%) | 7.3 | 6.1 | 5.0 | 7.2 | 8.1 | 7.8 |
| Capex/sales (%) | 0.3 | 0.6 | 0.5 | 0.7 | 0.0 | 0.0 |
| Capex/depreciation (x) Net debt/equity (%) | 0.2 17.5 | 0.7 41.8 | 0.4 41.5 | 1.8 49.6 | 0.0 61.8 | 0.0 75.7 |
| Net interest cover (x) | 5.8 | 6.0 | 3.7 | 4.6 | 4.5 | 4.0 |

Source: Company data, Deutsche Securities estimates

Model updated: 03 November 2017



2019E

1.13

1.13

0.39

4,483 48,772

86,727

6.6

9.7

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nm

3.6

3.2

8.6

9.3

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11,600 10,071

268

502

20

0

0

8,005

1,996

957

5,052

5,052

-846

0

6

-5,718

-6,564

-1,689

7,282

-964

-8,620

8,522

5,756 15,652

58,097

88,759 42,331

11,913

54,244

29,636

4.879

34,515

33,809

17.9

9.9

36.9

34.1

35.0

18.0

21.0

7.4

98.0

7.1

732

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0

9.300

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2018E

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1.03

0.36

5.9

4.483

10.6

10.6

1.85

nm

3.3

3.3

8.6

9.2

23,151

10,045 8,989

240

358

20

0

0

8 390

-1,089

7,322

1,847

4,597

4,597

-1,365

-4,059

-5,424

-1,464

6,054

-828

-8,535

9,566

0

6

877

0

0

48,772 77,464

| Running the numbers Asia | |
|--------------------------|-------------------|
| China | |
| Utilities | |
| China Everbright | Int'l |
| Reuters: 0257.HK | Bloomberg: 257 HK |
| Buy | |
| Price (9 Nov 17) | HKD 10.88 |
| Target Price | HKD 13.50 |

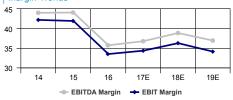
| 52 Week range | HKD 8.24 - 11.2 |
|----------------|-----------------|
| Market cap (m) | HKDm 48,77 |
| | USDm 6,253 |

Company Profile

China Everbright International is primarily engaged in environmental protection project investments such as sewage water treatment, waste-to-energy and solid waste disposal. The company also operates a toll bridge in Fuzhou, Fujian province. China Everbright Int'l is controlled by China Everbright Group and has positioned itself as the environmental investment arm of its parent.



Margin Trends







| Fiscal year end 31-Dec | | | | |
|---|---|---|---|--|
| i isodi yodi cita st-Dee | 2014 | 2015 | 2016 | 2017E |
| Financial Summary | | | | |
| DB EPS (HKD) | na | 0.45 | 0.63 | 0.84 |
| Reported EPS (HKD) | 0.38 | 0.46 | 0.62 | 0.84 |
| DPS (HKD) | 0.11 | 0.19 | 0.21 | 0.29 |
| BVPS (HKD) | 3.6 | 3.8 | 3.9 | 5.2 |
| Weighted average shares (m) | 4,484 | 4,484 | 4,483 | 4,483 |
| Average market cap (HKDm) | 48,038 | 54,702 | 39,630 | 48,772 |
| Enterprise value (HKDm) | 53,325 | 66,156 | 56,711 | 69,580 |
| Valuation Metrics | | | | |
| P/E (DB) (x) | 0.0 | 27.0 | 14.1 | 12.9 |
| P/E (Reported) (x) | 28.2 | 26.2 | 14.1 | 12.9 |
| P/BV (x) | 3.18 | 2.60 | 2.27 | 2.09 |
| | nm | nm | nm | nm |
| FCF Yield (%) Dividend Yield (%) | 1.0 | 1.5 | 2.3 | 2.7 |
| | | | | |
| EV/Sales (x) EV/EBITDA (x) | 8.4 19.1 | 7.8 17.6 | 4.1 11.4 | 3.6 9.8 |
| EV/EBIT (x) | 19.1 | 18.5 | 12.1 | 9.8 10.5 |
| | 10.0 | 10.0 | 12.1 | 10.0 |
| Income Statement (HKDm) | | | | |
| Sales revenue | 6,355 | 8,535 | 13,971 | 19,275 |
| Gross profit | 3,084 | 4,093 | 5,623 | 7,888 |
| EBITDA Depreciation | 2,796 | 3,760 | 4,988 | 7,083 211 |
| Amortisation | 79 36 | 91 93 | 163 150 | 211 |
| BIT | 2.680 | 3,576 | 4,675 | 6,614 |
| Net interest income(expense) | -381 | -452 | -640 | -860 |
| Associates/affiliates | -1 | -6 | 63 | 41 |
| Exceptionals/extraordinaries | 0 | 0 | 0 | 0 |
| Other pre-tax income/(expense) | 0 | 0 | 0 | 0 |
| Profit before tax | 2,299 | 3,119 | 4,099 | 5,795 |
| Income tax expense Minorities | 534 62 | 783 251 | 1,062 252 | 1,439 589 |
| Other post-tax income/(expense) | 02 | 201 | 252 | 0 |
| Net profit | 1,703 | 2,085 | 2,785 | 3,768 |
| DB adjustments (including dilution) | -1,703 | -61 | 27 | 0 |
| DB Net profit | 0 | 2,024 | 2,812 | 3,768 |
| Cash Flow (HKDm) | | | | |
| Cash flow from operations | -1,187 | -1,538 | 221 | 2 200 |
| | | | | -2,380 |
| Net Capex | -216 | -1,209 | -3,189 | -2,380 -3,014 |
| | -216 -1,402 | | | |
| Free cash flow Equity raised/(bought back) | -1,402 0 | -1,209 -2,747 660 | -3,189 -2,968 0 | -3,014 -5,394 0 |
| Free cash flow Equity raised/(bought back) Dividends paid | -1,402 0 -448 | -1,209 -2,747 660 -560 | -3,189 -2,968 0 -874 | -3,014 -5,394 0 -1,242 |
| Free cash flow Equity raised/(bought back) Dividends paid Net inc/(dec) in borrowings | -1,402 0 -448 1,187 | -1,209 -2,747 660 -560 7,513 | -3,189 -2,968 0 -874 6,220 | -3,014 -5,394 0 -1,242 7,379 |
| Free cash flow Equity raised/(bought back) Dividends paid Net inc/(dec) in borrowings Other investing/financing cash flows | -1,402 0 -448 1,187 332 | -1,209 -2,747 660 -560 7,513 -3,005 | -3,189 -2,968 0 -874 6,220 -1,780 | -3,014 -5,394 0 -1,242 7,379 3,532 |
| Free cash flow Equity raised/(bought back) Dividends paid Net inc/(dec) in borrowings Other investing/financing cash flows Net cash flow | -1,402 0 -448 1,187 | -1,209 -2,747 660 -560 7,513 | -3,189 -2,968 0 -874 6,220 | -3,014 -5,394 0 -1,242 7,379 |
| Free cash flow Equity raised/(bought back) Dividends paid Net inc/(dec) in borrowings Other investing/financing cash flows Net cash flow | -1,402 0 -448 1,187 332 -332 | -1,209 -2,747 660 -560 7,513 -3,005 1,859 | -3,189 -2,968 0 -874 6,220 -1,780 597 | -3,014 -5,394 0 -1,242 7,379 3,532 4,275 |
| Free cash flow Equity raised/(bought back) Dividends paid Net inc/(dec) in borrowings Other investing/financing cash flows Net cash flow Change in working capital Balance Sheet (HKDm) | -1,402 0 -448 1,187 332 -332 | -1,209 -2,747 660 -560 7,513 -3,005 1,859 | -3,189 -2,968 0 -874 6,220 -1,780 597 | -3,014 -5,394 0 -1,242 7,379 3,532 4,275 |
| Free cash flow Equity raised/(bought back) Dividends paid Net inc/(dec) in borrowings Other investing/financing cash flows Net cash flow Change in working capital Balance Sheet (HKDm) Cash and other liquid assets Tangible fixed assets | -1,402 0 -448 1,187 332 -332 -3,740 4,094 1,684 | -1,209 -2,747 660 -560 7,513 -3,005 1,859 -4,839 5,953 2,516 | -3,189 -2,968 0 -874 6,220 -1,780 597 -4,330 6,341 3,187 | -3,014 -5,394 0 -1,242 7,379 3,532 4,275 -7,993 |
| Free cash flow Equity raised/(bought back) Dividends paid Net inc/(dec) in borrowings Other investing/financing cash flows Net cash flow Change in working capital Balance Sheet (HKDm) Cash and other liquid assets Tangible fixed assets Goodwill/intangible assets | -1,402 0 -448 1,187 -332 -3,740 4,094 1,684 3,406 | -1,209 -2,747 660 -560 7,513 -3,005 1,859 -4,839 5,953 2,516 4,419 | -3,189 -2,968 0 -874 6,220 -1,780 597 -4,330 6,341 3,187 7,250 | -3,014 -5,394 0 -1,242 7,379 3,532 4,275 -7,993 10,539 3,567 9,420 |
| Free cash flow Equity raised/(bought back) Dividends paid Net inc/(dec) in borrowings Other investing/financing cash flows Net cash flow Change in working capital Balance Sheet (HKDm) Cash and other liquid assets Tangible fixed assets Goodwill/intangible assets Associates/investments | -1,402 0 -448 1,187 -332 -3.740 4,094 1,684 3,406 1,335 | -1,209 -2,747 660 -560 7,513 -3,005 1,859 -4,839 5,953 2,516 4,419 638 | -3,189 -2,968 0 -874 6,220 -1,780 597 -4,330 6,341 3,187 7,250 651 | -3,014 -5,394 0 -1,242 7,379 3,532 4,275 -7,993 10,539 3,567 9,420 692 |
| Free cash flow Equity raised/(bought back) Dividends paid Net inc/(dec) in borrowings Other investing/financing cash flows Net cash flow Change in working capital Balance Sheet (HKDm) Cash and other liquid assets Tangible fixed assets Goodwill/intangible assets Associates/investments Other assets | -1,402 0 -448 1,187 -332 -3,740 4,094 1,684 3,406 1,335 20,681 | -1,209 -2,747 660 -560 7,513 -3,005 1,859 -4,839 5,953 2,516 4,419 638 27,096 | -3,189 -2,968 0 -874 6,220 -1,780 597 -4,330 6,341 3,187 7,250 651 32,104 | -3,014 -5,394 0 -1,242 7,379 3,532 4,275 -7,993 10,539 3,567 9,420 692 39,757 |
| Free cash flow Equity raised/(bought back) Dividends paid Net inc/(dec) in borrowings Other investing/financing cash flows Net cash flow Change in working capital Balance Sheet (HKDm) Cash and other liquid assets Tangible fixed assets Goodwill/intangible assets Associates/investments Other assets Total assets | -1,402 0 -448 1,187 -332 -3,740 4,094 1,684 3,406 1,335 20,681 31,200 | -1,209 -2,747 660 -560 7,513 -3,005 1,859 -4,839 5,953 2,516 4,419 638 27,096 40,623 | -3,189 -2,968 0 -874 6,220 -1,780 597 -4,330 6,341 3,187 7,250 651 32,104 49,532 | -3,014 -5,394 0 -1,242 7,379 3,532 4,275 -7,993 10,539 3,567 9,420 692 39,757 63,976 |
| Free cash flow Equity raised/(bought back) Dividends paid Net inc/(dec) in borrowings Other investing/financing cash flows Net cash flow Change in working capital Balance Sheet (HKDm) Cash and other liquid assets Tangible fixed assets Associates/investments Other assets Total assets Interest bearing debt | -1,402 0 -448 1,187 332 -3,740 4,094 1,684 3,406 1,335 20,681 31,200 9,137 | -1,209 -2,747 660 -560 7,513 -3,005 1,859 -4,839 -4,949 -4 | -3,189 -2,968 0 -874 6,220 -1,780 -1,780 597 -4,330 | -3,014 -5,394 0 -1,242 7,379 3,532 4,275 -7,993 10,539 3,5567 9,420 692 39,757 63,976 28,995 |
| Free cash flow Equity raised/(bought back) Dividends paid Net inc/(dec) in borrowings Other investing/financing cash flows Net cash flow Change in working capital Balance Sheet (HKDm) Cash and other liquid assets Tangible fixed assets Goodwill/intangible assets Associates/investments Other assets Total assets Interest bearing debt Other liabilities | -1,402 0 -448 1,187 -332 -3,740 -3,740 -4,094 1,684 3,406 1,335 20,681 31,200 9,137 4,220 | -1,209 -2,747 660 -560 7,513 -3,005 1,859 -4,839 5,953 2,516 4,419 638 27,096 40,623 15,821 5,382 | -3,189 -2,968 0 -874 6,220 -1,780 597 -4,330 6,341 3,187 7,250 651 32,104 49,532 21,616 8,071 | -3,014 -5,394 0 -1,242 7,379 3,532 4,275 -7,993 10,539 3,567 9,420 692 39,757 63,976 28,995 8,572 |
| Free cash flow Equity raised/(bought back) Dividends paid Net inc/(dec) in borrowings Other investing/financing cash flows Net cash flow Change in working capital Balance Sheet (HKDm) Cash and other liquid assets Tangible fixed assets Goodwill/intangible assets Associates/investments Other assets Total assets Interest bearing debt Other liabilities Total liabilities | -1,402 0 -448 1,187 332 -3,740 4,094 1,684 3,406 1,335 20,681 31,200 9,137 | -1,209 -2,747 660 -560 7,513 -3,005 1,859 -4,839 -4,949 -4 | -3,189 -2,968 0 -874 6,220 -1,780 597 -4,330 | -3,014 -5,394 0 -1,242 7,379 3,532 4,275 -7,993 10,539 3,5567 9,420 692 39,757 63,976 28,995 |
| Free cash flow Equity raised/(bought back) Dividends paid Net inc/(dec) in borrowings Other investing/financing cash flows Net cash flow Change in working capital Balance Sheet (HKDm) Cash and other liquid assets Tangible fixed assets Goodwill/intangible assets Associates/investments Other assets Total assets Interest bearing debt Other liabilities Shareholders' equity Minorities | -1,402 0 -448 1,187 -332 -3,740 4,094 1,684 3,406 1,335 20,681 31,200 9,137 4,220 13,357 | -1,209 -2,747 660 -560 7,513 -3,005 1,859 -4,839 5,953 2,516 4,439 638 27,096 40,623 15,821 5,382 21,203 | -3,189 -2,968 0 -874 6,220 -1,780 597 -4,330 6,341 3,187 7,250 651 32,104 49,532 21,616 8,071 29,687 17,389 2,456 | -3,014 -5,394 0 -1,242 7,379 3,532 4,275 -7,993 10,539 3,567 9,420 692 39,757 63,976 28,995 8,572 37,567 |
| Free cash flow Equity raised/(bought back) Dividends paid Net inc/(dec) in borrowings Other investing/financing cash flows Net cash flow Change in working capital Balance Sheet (HKDm) Cash and other liquid assets Tangible fixed assets Goodwill/intangible assets Associates/investments Other assets Interest bearing debt Other liabilities Shareholders' equity | -1,402 0 -448 1,187 332 -3,740 4,094 1,684 3,406 1,335 20,681 31,200 9,137 4,220 13,357 16,263 | -1,209 -2,747 660 -560 7,513 -3,005 1,859 -4,839 -4,839 -4,839 -4,839 -4,859 -4,859 -4,859 2,516 4,419 638 27,096 40,623 15,821 5,382 21,203 17,196 | -3,189 -2,968 0 -874 6,220 -1,780 597 -4,330 | -3,014 -5,394 0 -1,242 7,379 3,532 4,275 -7,993 10,539 3,567 9,420 692 39,757 63,976 28,995 8,572 37,567 23,364 |

3,961 12,494 712 48,767 75,500 35,049 10,177 45,225 26,353 3.922 30,274 25,483 Sales growth (%) 19.5 34.3 63.7 38.0 20.1 DB EPS growth (%) EBITDA Margin (%) na na 39.0 35.7 34.0 22.0 38.8 36.7 44.0 44.1 42.2 34.3 36.2 EBIT Margin (%) 41.9 33.5 Payout ratio (%) 29.0 39.8 33.0 35.0 35.0 ROE (%) Capex/sales (%) 11.5 12.5 16.1 18.5 18.5 17.5 3.4 14.2 22.8 15.6 Capex/depreciation (x) 1.9 6.6 10.2 6.8 6.4 77.0 7.3 84.2 7.7 Net debt/equity (%) 28.3 50.8 69.9 Net interest cover (x) 70 7.9 77

Model updated: 03 November 2017

| Running t Asia | he numbers |
|-------------------|------------|
| China | |
| Utilities | |

Bloomberg: 270 HK

Guangdong Investment

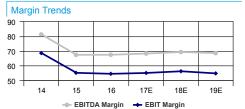
Reuters: 0270.HK

Buy Price (9 Nov 17) HKD 11.46 Target Price HKD 13.20 52 Week range HKD 9.65 - 12.10 Market cap (m) HKDm 71,206 USDm 9,129.4 USDm 9,129.4

Company Profile

Guangdong Investment's (GDI) primary business is the supply of raw water to Hong Kong and Dongguan/Shenzhen. In addition, the company owns stakes in several power plants and toll roads located in Guangdong. The company also has a property portfolio, which includes office towers, hotels and department stores located in Guangdong, Tianjin and Hong Kong. GDI is controlled by GDH Limited, which is a provincial- owned conglomerate.









| Fiscal year end 31-Dec | 2014 | 2015 | 2016 | 2017E | 2018E | 2019E |
|---|------------------|------------------|------------------|------------------|------------------|-------------------|
| Financial Summary | | | | | | |
| DB EPS (HKD) | 0.58 | 0.65 | 0.69 | 0.73 | 0.79 | 0.79 |
| Reported EPS (HKD) | 0.76 | 0.62 | 0.67 | 0.73 | 0.79 | 0.79 |
| DPS (HKD) BVPS (HKD) | 0.28 4.9 | 0.34 5.0 | 0.42 5.1 | 0.48 5.6 | 0.56 5.9 | 0.60 6.2 |
| Weighted average shares (m) | 6,240 | 6,254 | 6,263 | 6,403 | 6,544 | 6,547 |
| Average market cap (HKDm) Enterprise value (HKDm) | 51,722 46,122 | 64,264 61,894 | 67,815 64,282 | 71,206 69,882 | 71,206 67,796 | 71,206 65,979 |
| Valuation Metrics | | | | | | |
| P/E (DB) (x) | 14.4 | 15.7 | 15.8 | 15.7 | 14.5 | 14.6 |
| P/E (Reported) (x) | 10.9 | 16.5 | 16.1 | 15.7 | 14.5 | 14.6 |
| P/BV (x) | 1.98 | 2.14 | 1.99 | 2.03 | 1.93 | 1.86 |
| FCF Yield (%) Dividend Yield (%) | 7.2 3.4 | 2.6 3.3 | 3.5 3.9 | nm 4.2 | 7.7 4.9 | 8.1 5.2 |
| EV/Sales (x) | 5.5 | 6.7 | 6.1 | 5.9 | 5.4 | 5.2 |
| EV/EBITDA (x) EV/EBIT (x) | 6.7 8.0 | 10.0 12.2 | 9.1 11.3 | 8.7 10.8 | 7.8 9.7 | 7.6 9.5 |
| Income Statement (HKDm) | | | | | | |
| Sales revenue | 8,426 | 9,172 | 10,468 | 11,755 | 12,471 | 12,693 |
| Gross profit | 6,848 | 6,182 | 7,061 | 8,026 | 8,645 | 8,705 |
| EBITDA Depreciation | 6,848 261 | 6,182 275 | 7,061 403 | 8,026 601 | 8,645 643 | 8,705 671 |
| Amortisation | 810 | 850 | 955 | 953 | 992 | 1,084 |
| EBIT Net interest income(expense) | 5,777 310 | 5,057 -136 | 5,703 -130 | 6,471 -101 | 7,010 -79 | 6,950 -44 |
| Associates/affiliates | 312 | 325 | 179 | 36 | 148 | 161 |
| Exceptionals/extraordinaries | 0 | 0 | 0 | 0 | 0 | 0 |
| Other pre-tax income/(expense) Profit before tax | 78 6,476 | 0 5,246 | 0 5,752 | 0 6,406 | 0 7,078 | 0 7,067 |
| Income tax expense | 1,138 | 957 | 1,100 | 1,277 | 1,404 | 1,412 |
| Minorities | 566 | 384 | 440 | 458 | 497 | 494 |
| Other post-tax income/(expense) Net profit | 0 4,773 | 0 3,905 | 0 4,212 | 0 4,671 | 0 5,177 | 0 5,160 |
| DB adjustments (including dilution) | -1,173 | 194 | 84 | 0 | 0 | 0 |
| DB Net profit | 3,600 | 4,099 | 4,296 | 4,671 | 5,177 | 5,160 |
| Cash Flow (HKDm) | | | | | | |
| Cash flow from operations Net Capex | 5,105 -1,385 | 5,293 -3,591 | 5,969 -3,581 | 6,524 -8,267 | 7,221 -1,430 | 7,377 -1,327 |
| Free cash flow | 3,720 | 1,702 | 2,388 | -0,207 -1,743 | 5,791 | 6,050 |
| Equity raised/(bought back) | 2 | 92 | 61 | 2,835 | 0 | 0 |
| Dividends paid | -1,498 1,281 | -2,050 2,855 | -2,464 -2,020 | -3,066 -700 | -3,389 -1,500 | -3,936 -2,093 |
| Net inc/(dec) in borrowings Other investing/financing cash flows | -3,074 | -1,200 | 350 | -700 | -1,500 | -2,095 |
| Net cash flow | 432 | 1,399 | -1,684 | -2,674 | 902 | 21 |
| Change in working capital | 397 | 1,079 | -792 | -175 | -155 | -106 |
| Balance Sheet (HKDm) | 15.010 | 15 50 4 | | 10.170 | 10.071 | 40.004 |
| Cash and other liquid assets Tangible fixed assets | 15,210 3,650 | 15,524 7,083 | 14,845 6,692 | 12,172 9,674 | 13,074 10,412 | 13,094 11,017 |
| Goodwill/intangible assets | 13,166 | 15,522 | 14,442 | 14,712 | 13,730 | 12,657 |
| Associates/investments | 1,659 | 1,893 | 1,721 | 1,705 | 1,639 | 1,566 |
| Other assets Total assets | 13,931 47,615 | 14,088 54,110 | 14,430 52,130 | 18,005 56,267 | 18,097 56,951 | 18,151 56,486 |
| Interest bearing debt | 5,872 | 9,252 | 7,017 | 6,317 | 4,817 | 2,724 |
| Other liabilities Total liabilities | 6,079 11,951 | 7,590 | 6,875 | 6,814 | 6,712 | 6,621 |
| Shareholders' equity | 30,267 | 16,843 31,472 | 13,892 32,222 | 13,131 36,900 | 11,529 38,937 | 9,345 40,431 |
| Minorities | 5,397 | 5,795 | 6,017 | 6,236 | 6,485 | 6,710 |
| Total shareholders' equity Net debt | 35,664 -9,337 | 37,267 -6,272 | 38,239 -7,829 | 43,137 -5,855 | 45,422 -8,257 | 47,141 -10,370 |
| Key Company Metrics | | | | | | |
| Sales growth (%) | 5.5 | 8.8 | 14.1 | 12.3 | 6.1 | 1.8 |
| DB EPS growth (%) | 4.5 | 13.7 | 4.7 | 6.4 | 8.5 | -0.4 |
| EBITDA Margin (%) EBIT Margin (%) | 81.3 68.6 | 67.4 55.1 | 67.5 54.5 | 68.3 55.1 | 69.3 56.2 | 68.6 54.8 |
| Payout ratio (%) | 68.6 36.7 | 55.1 54.5 | 54.5 62.4 | 55.1 65.8 | 56.2 70.8 | 54.8 76.1 |
| ROE (%) | 16.6 | 12.7 | 13.2 | 13.5 | 13.7 | 13.0 |
| Capex/sales (%) Capex/depreciation (x) | 17.4 1.4 | 39.2 3.2 | 34.2 2.6 | 70.3 5.3 | 11.5 0.9 | 10.5 0.8 |
| Net debt/equity (%) | -26.2 | -16.8 | -20.5 | -13.6 | -18.2 | -22.0 |
| Net interest cover (x) | nm | 37.2 | 44.0 | 63.9 | 88.4 | 159.8 |

Source: Company data, Deutsche Securities estimates

Net interest cover (x)



Running the numbers

Model updated: 03 November 2017

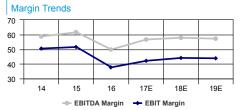


| Asia | |
|------------------|------------------------------|
| China | |
| Utilities | |
| CT Environment | al |
| Reuters: 1363.HK | Bloomberg: 1363 HK |
| Hold | |
| Price (9 Nov 17) | HKD 1.32 |
| Target Price | HKD 1.29 |
| 52 Week range | HKD 1.08 - 2.14 |
| Market cap (m) | HKDm 8,338.2 USDm 1,069.1 |

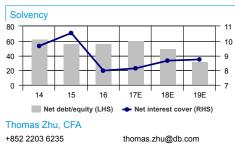
Company Profile

CT Environmental Group Ltd (CTEG), listed in Hong Kong in September 2013, is committed to providing one-stop environmental services, mainly for industrial customers. It started in the industrial wastewater treatment and water supply businesses, and has now expanded into sludge treatment, industrial solid waste and hazardous waste businesses.









| Fiscal year end 31-Dec | 2014 | 2015 | 2016 | 2017E | 2018E | 2019E |
|---|----------------|------------------|------------------|----------------|----------------|----------------|
| Financial Summary | | | | | | |
| DB EPS (CNY) | 0.06 | 0.08 | 0.10 | 0.08 | 0.11 | 0.12 |
| Reported EPS (CNY) DPS (CNY) | 0.06 0.01 | 0.10 0.02 | 0.08 0.02 | 0.09 0.02 | 0.11 0.02 | 0.12 0.02 |
| BVPS (CNY) | 0.3 | 0.5 | 0.5 | 0.6 | 0.7 | 0.02 |
| Weighted average shares (m) | 5,626 | 6,101 | 6,317 | 6,317 | 6,317 | 6,317 |
| Average market cap (CNYm) Enterprise value (CNYm) | 6,709 7,542 | 11,947 13,282 | 11,825 13,336 | 7,092 9,037 | 7,092 8,920 | 7,092 8,362 |
| | ., | | , | -, | -, | -, |
| Valuation Metrics | | | | | | |
| P/E (DB) (x) P/E (Reported) (x) | 21.1 20.0 | 23.2 19.9 | 19.6 22.8 | 13.5 12.2 | 10.2 10.2 | 9.6 9.6 |
| P/BV (x) | 6.16 | 4.51 | 2.61 | 1.91 | 1.65 | 1.45 |
| FCF Yield (%) | 0.8 | nm | 1.0 | nm | 4.6 | 11.3 |
| Dividend Yield (%) | 1.2 | 1.1 | 0.8 | 1.5 | 1.9 | 2.0 |
| EV/Sales (x) EV/EBITDA (x) | 9.2 15.7 | 9.3 15.0 | 7.1 14.3 | 4.8 8.5 | 4.1 7.1 | 3.6 6.3 |
| EV/EBIT (x) | 18.3 | 18.0 | 19.0 | 11.4 | 9.3 | 8.2 |
| Income Statement (CNYm) | | | | | | |
| Sales revenue | 818 | 1,435 | 1,866 | 1,876 | 2,177 | 2,332 |
| Gross profit EBITDA | 528 480 | 860 884 | 1,079 930 | 1,123 1,063 | 1,307 1,259 | 1,363 1,334 |
| Depreciation | 67 | 145 | 226 | 273 | 299 | 312 |
| Amortisation EBIT | 0 413 | 0 739 | 0 703 | 0 790 | 0 960 | 0 1.022 |
| Net interest income(expense) | -43 | -70 | -88 | -97 | -111 | -117 |
| Associates/affiliates Exceptionals/extraordinaries | 3 0 | 1 0 | 2 0 | 2 0 | 2 0 | 2 0 |
| Other pre-tax income/(expense) | 0 | 0 | 0 | 0 | 0 | 0 |
| Profit before tax Income tax expense | 374 35 | 671 69 | 617 102 | 695 118 | 851 153 | 907 172 |
| Minorities | 3 | 2 | -5 | -6 | 0 | 0 |
| Other post-tax income/(expense) Net profit | 0 336 | 0 599 | 0 519 | 0 583 | 0 698 | 0 735 |
| DB adjustments (including dilution) | -18 | -85 | 84 | -59 | 0 | 0 |
| DB Net profit | 319 | 514 | 603 | 524 | 698 | 735 |
| Cash Flow (CNYm) | | | | | | |
| Cash flow from operations | 472 -421 | 352 | 734 | 900 | 987 | 1,133 |
| Net Capex Free cash flow | -421 | -1,243 -891 | -616 118 | -1,152 -252 | -658 329 | -329 804 |
| Equity raised/(bought back) | 280 | 920 -79 | -20 -153 | 0 -97 | 0 -108 | 0 -138 |
| Dividends paid Net inc/(dec) in borrowings | -33 303 | 520 | 785 | -97 591 | 295 | -136 97 |
| Other investing/financing cash flows Net cash flow | -798 -196 | -204 266 | -79 651 | -93 149 | -106 410 | -111 653 |
| Change in working capital | 95 | 109 | 413 | -48 | -136 | -45 |
| Balance Sheet (CNYm) | | | | | | |
| Cash and other liquid assets | 117 | 383 | 1,034 | 1,183 | 1,592 | 2,245 |
| Tangible fixed assets | 1,249 | 2,151 | 2,412 | 3,197 | 3,567 | 3,595 |
| Goodwill/intangible assets Associates/investments | 310 115 | 1,295 307 | 1,461 302 | 1,556 304 | 1,544 306 | 1,533 308 |
| Other assets | 1,062 | 1,370 | 1,663 | 1,711 | 1,839 | 1,872 |
| Total assets Interest bearing debt | 2,852 1,041 | 5,505 2,010 | 6,872 2,837 | 7,950 3,428 | 8,848 3,723 | 9,554 3,820 |
| Other liabilities | 316 | 599 | 800 | 807 | 821 | 831 |
| Total liabilities Shareholders' equity | 1,357 1,471 | 2,608 2,883 | 3,637 3,225 | 4,235 3,711 | 4,544 4,301 | 4,652 4,899 |
| Minorities | 23 | 14 | 9 | 3 | 3 | 3 |
| Total shareholders' equity Net debt | 1,495 925 | 2,897 1,627 | 3,235 1,803 | 3,714 2,246 | 4,305 2,131 | 4,902 1,575 |
| Key Company Metrics | | | | | | |
| Sales growth (%) | 111.5 | 75.4 | 30.0 | 0.6 | 16.1 | 7.1 |
| DB EPS growth (%) | 54.1 | 48.7 | 13.4 | -13.1 | 33.2 | 5.3 |
| EBITDA Margin (%) EBIT Margin (%) | 58.7 50.5 | 61.6 51.5 | 49.8 37.7 | 56.6 42.1 | 57.8 44.1 | 57.2 43.8 |
| Payout ratio (%) | 23.0 | 22.8 | 18.8 | 18.5 | 19.8 | 19.8 |
| ROE (%) Capex/sales (%) | 28.5 51.4 | 27.5 86.6 | 17.0 33.3 | 16.8 61.4 | 17.4 30.2 | 16.0 14.1 |
| Capex/depreciation (x) Net debt/equity (%) | 6.3 | 8.6 | 2.7 | 4.2 | 2.2 | 1.1 |
| Net interest cover (x) | 61.9 9.7 | 56.2 10.5 | 55.8 8.0 | 60.5 8.1 | 49.5 8.7 | 32.1 8.7 |
| | | | | | | |

Source: Company data, Deutsche Securities estimates

Model updated: 06 November 2017

| Running the numbers Asia |
|-----------------------------|
| China |
| Utilities |

Beijing Enterprises Water

Reuters: 0371.HK

Buy

| Day | |
|------------------|-----------------------------|
| Price (9 Nov 17) | HKD 6.54 |
| Target Price | HKD 7.40 |
| 52 Week range | HKD 4.91 - 6.70 |
| Market cap (m) | HKDm 44,799 USDm 5,743.8 |

Bloomberg: 371 HK

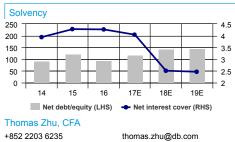
Company Profile

Beijing Enterprises Water is a state-owned enterprise that specializes in sewage treatment, water supply, reclaimed water and desalination business. It is currently one of the leading integrated water and sewage treatment provider in China, with its water plants located across 14 provinces and municipalities. Beijing Enterprises Holdings is largest shareholder.









| Fiscal year end 31-Dec | 2014 | 2015 | 2016 | 2017E | 2018E | 2019E |
|--|--|---|---|--|--|--|
| Financial Summary | | | | | | |
| DB EPS (HKD) | 0.18 | 0.27 | 0.33 | 0.48 | 0.58 | 0.67 |
| Reported EPS (HKD) | 0.20 | 0.28 | 0.36 | 0.49 | 0.58 | 0.67 |
| DPS (HKD) | 0.08 | 0.10 | 0.12 | 0.16 | 0.19 | 0.22 |
| BVPS (HKD) | 1.8 | 1.9 | 1.9 | 2.2 | 2.6 | 3.1 |
| Weighted average shares (m) | 8,643 | 8,715 | 8,712 | 8,725 | 8,775 | 8,826 |
| Average market cap (HKDm) | 44,268 | 50,048 | 42,809 | 44,799 | 44,799 | 44,799 |
| Enterprise value (HKDm) | 61,863 | 74,247 | 72,547 | 81,900 | 91,173 | 93,810 |
| Valuation Metrics | | | | | | |
| P/E (DB) (x) | 28.1 | 21.4 | 14.8 | 13.5 | 11.2 | 9.7 |
| P/E (Reported) (x) | 25.2 | 20.9 | 13.5 | 13.3 | 11.2 | 9.7 |
| P/BV (x) | 2.92 | 2.93 | 2.72 | 2.95 | 2.51 | 2.14 |
| FCF Yield (%) | nm | nm | nm | nm | nm | nm |
| Dividend Yield (%) | 1.5 | 1.7 | 2.4 | 2.4 | 2.9 | 3.3 |
| EV/Sales (x) | 6.9 | 5.5 | 4.2 | 3.8 | 6.3 | 5.9 |
| EV/EBITDA (x) | 18.9 | 17.9 | 12.7 | 12.6 | 17.2 | 15.1 |
| EV/EBIT (x) | 19.3 | 18.3 | 13.0 | 13.3 | 18.6 | 16.3 |
| Income Statement (HKDm) | | | | | | |
| Sales revenue | 8,926 | 13,503 | 17,355 | 21,430 | 14,392 | 16,013 |
| Gross profit | 3,564 | 5,044 | 5,932 | 7,343 | 6,732 | 7,773 |
| EBITDA | 3,270 | 4,143 | 5,722 | 6,509 | 5,307 | 6,216 |
| Depreciation | 68 | 77 | 147 | 366 | 401 | 444 |
| Amortisation | 0 | 0 | 0 | 0 | 0 | 0 |
| EBIT | 3,201 | 4,066 | 5,575 | 6,142 | 4,906 | 5,773 |
| Net interest income(expense) | -812 | -950 | -1,306 | -1,519 | -1,954 | -2,340 |
| Associates/affiliates | 278 | 429 | 375 | 1,269 | 3,248 | 3,725 |
| Exceptionals/extraordinaries | 0 | 0 | 0 | 0 | 0 | 0 |
| Other pre-tax income/(expense) | 0 | 0 | 0 | 0 | 0 | 0 |
| Profit before tax | 2,667 | 3,546 | 4,644 | 5,893 | 6,200 | 7,157 |
| Income tax expense | 594 | 778 | 971 | 1,063 | 679 | 789 |
| Minorities | 279 | 312 | 389 | 300 | 163 | 193 |
| Other post-tax income/(expense) | 0 | 0 | -57 | -232 | -232 | -232 |
| Net profit | 1,794 | 2,455 | 3,227 | 4,298 | 5,126 | 5,943 |
| DB adjustments (including dilution) | -184 | -64 | -277 | -70 | 0 | 0 |
| DB Net profit | 1,611 | 2,391 | 2,950 | 4,228 | 5,126 | 5,943 |
| Cash Flow (HKDm) | | | | | | |
| Cash flow from operations Net Capex Free cash flow Equity raised/(bought back) Dividends paid Net inc/(dec) in borrowings Other investing/financing cash flows Net cash flow Change in working capital | 0 -634 -634 333 -495 3,343 -922 0 -6,856 | 0 -2,094 -2,094 640 -802 8,291 -2,052 0 -6,913 | 0 -378 -378 6,999 -1,060 5,141 -1,809 0 -3,687 | 0 -127 -127 114 -1,085 6,244 -3,074 0 -11,709 | 0 -160 -160 114 -1,428 13,886 -1,237 0 -12,138 | 0 -190 114 -1,695 4,176 -1,422 0 -6,514 |
| Balance Sheet (HKDm) | | | | | | |
| Cash and other liquid assets Tangible fixed assets Goodwill/intangible assets Associates/investments Other assets Interest bearing debt Other liabilities Total assets Interest bearing debt Other liabilities Shareholders' equity Minorities Total shareholders' equity <i>Net debt</i> | 6,091 1,299 0 3,109 41,142 51,641 23,490 9,062 32,552 15,784 3,304 19,089 17,400 | 6,374 1,380 0 4,466 52,272 64,492 30,933 13,269 44,201 16,184 4,107 20,290 24,559 | 10,921 2,831 0 5,685 61,610 81,047 36,078 18,202 54,280 16,501 10,266 26,767 25,157 | 6,765 2,809 0 9,333 75,280 94,187 42,402 21,618 64,020 19,370 10,798 30,168 35,637 | 7,288 2,776 0 13,819 83,266 107,149 56,288 16,705 72,993 22,963 11,193 34,156 49,000 | 4,104 2,764 0 18,966 90,783 116,617 60,464 17,425 77,888 27,111 11,618 38,729 56,360 |
| Key Company Metrics | | | | | | |
| Sales growth (%) DB EPS growth (%) EBITDA Margin (%) EBIT Margin (%) Payout ratio (%) ROE (%) Capex/sales (%) Capex/depreciation (x) Net debt/equity (%) Net interest cover (x) | 39.3 35.4 36.6 35.9 37.6 12.3 7.1 9.3 91.2 3.9 | 51.3 47.0 30.7 30.1 15.4 15.5 27.2 121.0 4.3 | 28.5 23.8 33.0 32.1 19.7 2.2 2.6 94.0 4.3 | 23.5 45.7 30.4 28.7 32.0 24.0 0.6 0.3 118.1 4.0 | -32.8 20.5 36.9 34.1 32.0 24.2 1.1 0.4 143.5 2.5 | 11.3 15.3 38.8 36.0 23.7 1.2 0.4 145.5 2.5 |



Model updated: 09 November 2017



| Running the numbers Asia | | | |
|-------------------------------------|-----------------|--|--|
| China | | | |
| Utilities | | | |
| SIIC Environment | | | |
| Reuters: SIIC.SI Bloomberg: SIIC SI | | | |
| Buy | | | |
| Price (9 Nov 17) | SGD 0.52 | | |
| Target Price | SGD 0.61 | | |
| 52 Week range | SGD 0.46 - 0.63 | | |
| Market cap (m) | SGDm 1,162.1 | | |

Company Profile

SIIC Environment, formally known as Asia Water Technology (Asia Water), is listed in Singapore. The company's primary business is the operation of the wastewater and water supply business in China through BOT and TOT business models. As of end-2014, SIIC owns about 70 water projects with total designed capacity of 5.4mt/d and three WTE projects with total waste treatment capacity of 3,200t/d, located across 15 provinces and

USDm 854.2









| Fiscal year end 31-Dec | 2014 | 2015 | 2016 | 2017E | 2018E | 2019E |
|---|-----------------------|-------------------------|-------------------------|--------------------------|--------------------------|---------------------------|
| Financial Summary | | | | | | |
| DB EPS (CNY) | 0.12 | 0.17 | 0.15 | 0.21 | 0.23 | 0.25 |
| Reported EPS (CNY) DPS (CNY) | 0.14 0.00 | 0.17 0.00 | 0.20 0.00 | 0.21 0.03 | 0.23 0.03 | 0.25 0.04 |
| BVPS (CNY) | 1.9 | 2.4 | 2.6 | 2.9 | 3.1 | 3.3 |
| Weighted average shares (m) | 1,812 | 2,137 | 2,257 | 2,490 | 2,607 | 2,607 |
| Average market cap (CNYm) Enterprise value (CNYm) | 7,402 8,347 | 8,368 10,934 | 6,903 17,363 | 5,667 15,724 | 5,667 17,335 | 5,667 18,711 |
| Voluction Matrice | | | | | | |
| Valuation Metrics | 00.7 | 00.4 | 00.0 | 40.4 | 10.0 | 10.0 |
| P/E (DB) (x) P/E (Reported) (x) | 32.7 28.6 | 23.4 23.2 | 20.2 15.2 | 12.1 12.1 | 10.9 10.9 | 10.0 10.0 |
| P/BV (x) | 1.74 | 1.43 | 1.06 | 0.86 | 0.81 | 0.76 |
| FCF Yield (%) Dividend Yield (%) | 1.1 0.0 | nm 0.0 | nm 0.0 | nm 1.2 | nm 1.4 | nm 1.5 |
| EV/Sales (x) | 6.5 | 6.1 | 6.6 | 3.4 | 3.5 | 3.9 |
| EV/EBITDA (x) | 28.9 | 16.6 | 23.7 | 11.4 | 11.6 | 12.0 |
| EV/EBIT (x) | 39.3 | 20.2 | 31.6 | 13.8 | 13.8 | 13.8 |
| Income Statement (CNYm) | | | | | | |
| Sales revenue | 1,288 | 1,804 | 2,648 | 4,652 | 4,904 | 4,831 |
| Gross profit EBITDA | 446 289 | 829 659 | 998 734 | 1,725 1,378 | 1,848 1,500 | 1,919 1,564 |
| Depreciation Amortisation | 11 66 | 11 105 | 24 161 | 24 216 | 24 221 | 24 182 |
| EBIT | 213 | 542 | 549 | 1,139 | 1,255 | 1,358 |
| Net interest income(expense) Associates/affiliates | 114 60 | -159 78 | -223 71 | -458 44 | -469 49 | -518 51 |
| Exceptionals/extraordinaries | 4 | 0 | 155 | 0 | 0 | 0 |
| Other pre-tax income/(expense) Profit before tax | 18 410 | 63 524 | 113 665 | 184 909 | 204 1,040 | 231 1,122 |
| Income tax expense | 76 | 100 | 124 | 233 | 257 | 268 |
| Minorities Other post-tax income/(expense) | 71 0 | 64 0 | 85 0 | 158 0 | 183 0 | 201 0 |
| Net profit | 262 | 360 | 455 | 517 | 599 | 654 |
| DB adjustments (including dilution) DB Net profit | -33 229 | -3 358 | -114 341 | 0 517 | 0 599 | 0 654 |
| Cash Flow (CNYm) | | | | | | |
| Cash flow from operations | 236 -151 | -72 -46 | -93 -102 | 42 -200 | -772 -200 | -463 -200 |
| Net Capex Free cash flow | -131 | -119 | -102 | -158 | -972 | -663 |
| Equity raised/(bought back) Dividends paid | 751 0 | 0 | 0 | 1,087 0 | 0 0 | 0 |
| Net inc/(dec) in borrowings | -190 | 920 | 3,146 | -656 | 976 | 832 |
| Other investing/financing cash flows Net cash flow | -1,404 -760 | -1,126 -324 | -2,111 839 | -365 -92 | -466 -462 | -513 -344 |
| Change in working capital | -15 | -717 | -837 | -1,348 | -2,280 | -2,040 |
| Balance Sheet (CNYm) | | | | | | |
| Cash and other liquid assets | 1,119 | 795 | 1,635 | 1,542 | 1,080 | 736 |
| Tangible fixed assets Goodwill/intangible assets | 108 | 105 | 184 6,903 | 160 6,842 | 136 | 112 |
| Associates/investments | 1,530 1,198 | 3,682 1,430 | 1,009 | 1,005 | 6,776 1,015 | 6,749 1,017 |
| Other assets Total assets | 4,211 8,167 | 6,233 12,245 | 13,308 23,038 | 15,484 25,033 | 17,849 26,856 | 19,781 28,395 |
| Interest bearing debt | 2,676 | 3,724 | 10,543 | 9,886 | 10,862 | 11,694 |
| Other liabilities Total liabilities | 1,214 3,890 | 1,942 5,665 | 3,962 14,505 | 4,851 14,737 | 4,997 15,860 | 4,940 16,634 |
| Shareholders' equity | 3,691 | 5,512 | 5,973 | 7,577 | 8,095 | 8,659 |
| Minorities Total shareholders' equity <i>Net debt</i> | 586 4,277 1,557 | 1,068 6,579 2,928 | 2,560 8,533 8,908 | 2,718 10,295 8,344 | 2,901 10,996 9,782 | 3,102 11,761 10,959 |
| Key Company Metrics | | | | | | |
| Sales growth (%) | 6.0 | 40.1 | 46.8 | 75.7 | 5.4 | -1.5 |
| DB EPS growth (%) EBITDA Margin (%) | -10.0 22.5 | 34.0 36.5 | -9.7 27.7 | 37.5 29.6 | 10.6 30.6 | 9.1 32.4 |
| EBIT Margin (%) | 16.5 | 30.1 | 20.7 0.0 | 24.5 | 25.6 | 28.1 |
| Payout ratio (%) ROE (%) | 0.0 8.2 | 0.0 7.8 | 7.9 | 15.0 7.6 | 15.0 7.6 | 15.0 7.8 |
| Capex/sales (%) Capex/depreciation (x) | 11.8 2.0 | 3.5 0.5 | 3.9 0.6 | 4.3 0.8 | 4.1 0.8 | 4.1 1.0 |
| Net debt/equity (%) | 36.4 | 44.5 | 104.4 | 81.0 | 89.0 | 93.2 |
| Net interest cover (x) | nm | 3.4 | 2.5 | 2.5 | 2.7 | 2.6 |

Model updated: 03 November 2017

| Running the numbers Asia | |
|-----------------------------|--|
| China | |
| Utilities | |

China Everbright Greentech

Reuters: 1257.HK Bloomberg: 1257 HK

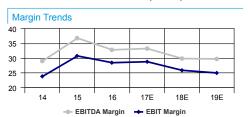
Buy

| Price (9 Nov 17) | HKD 6.81 |
|------------------|-----------------------------|
| Target Price | HKD 7.90 |
| 52 Week range | HKD 5.29 - 6.96 |
| Market cap (m) | HKDm 14,070 USDm 1,803.9 |

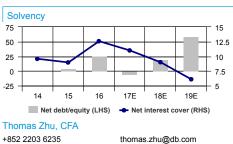
Company Profile

China Everbright Greentech (CEG) is a leading environmental protection service provider in China. It focuses on biomass treatment with exposures also in hazardous waste treatment and wind/solar power. The company successfully completed its spin-off listing from the parentco China Everbright International in 2017. CEG is one of the few companies being able to adopt integrated biomass and WTE business model in China. We









| Fiscal year end 31-Dec | 2014 | 2015 | 2016 | 2017E | 2018E | 2019E |
|--|----------------------|----------------------|----------------------|----------------------|----------------------|-----------------------|
| Financial Summary | | | | | | |
| DB EPS (HKD) Reported EPS (HKD) DPS (HKD) | 0.10 0.10 0.00 | 0.14 0.13 0.00 | 0.31 0.30 0.00 | 0.47 0.47 0.09 | 0.64 0.64 0.13 | 0.71 0.71 0.14 |
| BVPS (HKD) Weighted average shares (m) | 0.3 2,066 | 1.4 2,066 | 2.0 2,066 | 4.0 2,066 | 4.5 2,066 | 5.1 2,066 |
| Average market cap (HKDm) Enterprise value (HKDm) | na na | na na | na | 14,070 13,585 | 14,070 15,881 | 14,070 20,214 |
| Valuation Metrics | | | | | | |
| P/E (DB) (x) P/E (Reported) (x) P/BV (x) | na na 0.00 | na na 0.00 | na na 0.00 | 14.5 14.5 1.71 | 10.7 10.7 1.51 | 9.6 9.6 1.34 |
| FCF Yield (%) Dividend Yield (%) | na na | na na | na na | nm 1.4 | nm 1.9 | nm 2.1 |
| EV/Sales (x) EV/EBITDA (x) EV/EBIT (x) | nm nm nm | nm nm nm | nm nm nm | 2.9 8.8 10.2 | 2.2 7.3 8.4 | 2.3 7.6 9.1 |
| Income Statement (HKDm) | | | | | | |
| Sales revenue Gross profit | 1,058 293 | 1,203 435 | 3,000 992 | 4,646 1,481 | 7,290 2,102 | 8,965 2,571 |
| EBITDA | 306 | 442 | 983 | 1,543 | 2,174 | 2,660 |
| Depreciation Amortisation | 31 24 | 40 33 | 86 46 | 99 109 | 126 166 | 186 240 |
| EBIT Net interest income(expense) | 251 -26 | 369 -41 | 852 -68 | 1,335 -121 | 1,882 -209 | 2,233 -366 |
| Associates/affiliates | 0 | 0 | -1 | 0 | 0 | 0 |
| Exceptionals/extraordinaries Other pre-tax income/(expense) | 0 | 0 | 0 0 | 0 | 0 | 0 |
| Profit before tax | 225 | 328 | 783 | 1,214 | 1,673 | 1,867 |
| Income tax expense Minorities | 25 3 | 56 -1 | 154 0 | 238 5 | 351 7 | 392 7 |
| Other post-tax income/(expense) Net profit | 0 196 | 0 272 | 0 629 | 0 971 | , 0 1,315 | , 0 1,468 |
| DB adjustments (including dilution) DB Net profit | 4 200 | 9 281 | 18 647 | 0 971 | 0 1,315 | 0 1,468 |
| Cash Flow (HKDm) | | | | | | |
| Cash flow from operations | 310 | -37 | 495 | 740 | 1,308 | 1,073 |
| Net Capex Free cash flow | -682 -372 | -1,090 -1,127 | -1,587 -1,092 | -2,124 -1,384 | -3,196 -1,888 | -4,796 -3,723 |
| Equity raised/(bought back) | 0 | 0 | 0 | 3,277 | 0 | 0 |
| Dividends paid Net inc/(dec) in borrowings | 0 138 | -172 611 | 0 853 | -194 1,317 | -263 2,463 | -294 4,428 |
| Other investing/financing cash flows | 493 | 1,182 | 119 | -98 | -131 | -302 |
| Net cash flow Change in working capital | 259 -9 | 494 -456 | -121 -440 | 2,918 -698 | 181 -728 | 109 -1,432 |
| Balance Sheet (HKDm) | | | | | | |
| Cash and other liquid assets | 569 | 1,044 | 886 | 3,804 | 3,985 | 4,094 |
| Tangible fixed assets Goodwill/intangible assets | 773 1,359 | 1,600 1,662 | 1,714 2,976 | 2,183 4,424 | 2,690 6,821 | 4,567 9,313 |
| Associates/investments | 0 | 14 | 34 | 55 | 55 | 55 |
| Other assets Total assets | 859 3,560 | 1,247 5,567 | 1,854 7,464 | 3,210 13,676 | 4,963 18,514 | 7,007 25,036 |
| Interest bearing debt | 572 | 1,157 | 1,968 | 3,352 | 5,815 | 10,242 |
| Other liabilities Total liabilities | 2,361 2,932 | 1,489 2,646 | 1,295 3,263 | 2,063 5,415 | 3,374 9,188 | 4,279 14,521 |
| Shareholders' equity | 613 | 2,907 | 4,187 | 8,238 | 9,290 | 10,464 |
| Minorities Total shareholders' equity <i>Net debt</i> | 15 628 3 | 14 2,921 112 | 13 4,201 1,082 | 23 8,261 -453 | 36 9,326 1,829 | 51 10,515 6,148 |
| Key Company Metrics | | | | | | |
| Sales growth (%) | nm | 13.7 | 149.3 | 54.9 | 56.9 | 23.0 |
| DB EPS growth (%) EBITDA Margin (%) | na 29.0 | 40.6 36.8 | 130.2 32.8 | 50.0 33.2 | 35.5 29.8 | 11.6 29.7 |
| EBIT Margin (%) | 23.8 | 30.7 | 28.4 | 28.7 | 25.8 | 24.9 |
| Payout ratio (%) ROE (%) | 0.0 32.0 | 0.0 15.5 | 0.0 17.7 | 20.0 15.6 | 20.0 15.0 | 20.0 14.9 |
| Capex/sales (%) | 64.5 | 90.8 | 52.9 | 45.7 | 43.8 | 53.5 |
| Capex/depreciation (x) Net debt/equity (%) | 12.4 0.4 | 15.0 3.8 | 12.1 25.8 | 10.2 -5.5 | 10.9 19.6 | 11.2 58.5 |
| Net interest cover (x) | 9.6 | 9.0 | 12.6 | 11.0 | 9.0 | 6.1 |





Appendix 1

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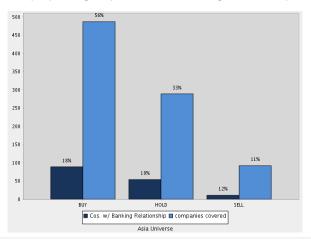
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David Folkerts-Landau Group Chief Economist and Global Head of Research

Raj Hindocha **Global Chief Operating Officer** Research

Anthony Klarman Global Head of Debt Research

Michael Spencer Head of APAC Research **Global Head of Economics**

Steve Pollard Head of Americas Research Global Head of Equity Research

Dave Clark Head of APAC Equity Research

Pam Finelli Global Head of Equity Derivatives Research

Andreas Neubauer Head of Research - Germany

Paul Reynolds

Head of EMEA

Equity Research

Spyros Mesomeris Global Head of Quantitative and QIS Research

International locations

Deutsche Bank AG Deutsche Bank Place Level 16 Corner of Hunter & Phillip Streets Sydney, NSW 2000 Australia

Tel: (61) 2 8258 1234

Deutsche Bank AG London 1 Great Winchester Street London EC2N 2EQ United Kingdom Tel: (44) 20 7545 8000

Mainzer Landstrasse 11-17

60329 Frankfurt am Main

Deutsche Bank AG

Tel: (49) 69 910 00

Germany

Deutsche Bank Securities Inc. 60 Wall Street New York, NY 10005 United States of America Tel: (1) 212 250 2500

Deutsche Bank AG Filiale Hongkong

International Commerce Centre, 1 Austin Road West, Kowloon, Hong Kong Tel: (852) 2203 8888

2-11-1 Nagatacho Sanno Park Tower Chiyoda-ku, Tokyo 100-6171

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