

Banpu DCF and multiples valuation analysis

Banpu Disclosure and Valuation Methodology Workshop



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- 1. Objectives
- 2. DCF analysis
- 3. SOTP multiples analysis
- 4. Who we are



1. Objectives

2. DCF analysis

3. SOTP multiples analysis

4. Who we are



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- 1. To use publicly available information from Banpu and others sources to develop DCF and multiples-based analysis of Banpu; sources:
 - Banpu results presentation (with new disclosure template) for Q1 2012
 - Previous Banpu results 'Focus' sections
 - Other publicly available information on comparable companies and industry websites
- 2. To 'test' Banpu's new disclosure template and identify possible areas for improvement
- 3. To seek feedback from the analyst and investor community in relation to:
 - Their preferred valuation methodologies for valuing Banpu
 - Potential areas for improvement in Banpu's disclosure



1. Objectives

2. DCF analysis

- 3. SOTP multiples analysis
- 4. Who we are

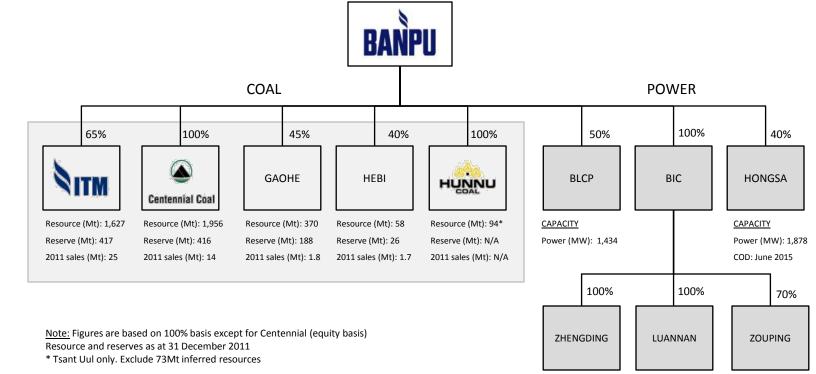


Overall value structure

Portfolio of thermal coal and coal-fired power assets

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CAPACITY

Power (MW): 48

Steam (tph): 180

CAPACITY

Power (MW): 100

Steam (tph): 500

CAPACITY

Power (MW): 100

Steam (tph): 128

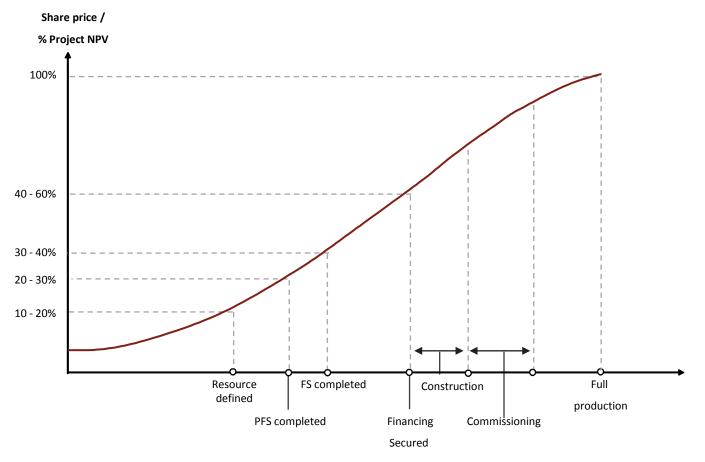


Project development risk NPV curves

Developing projects are valued at a discount to their full potential net present value

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Source: "Financing the Development of Mining Projects", RFC, 12 July 2001, Expo Minerva, Venezuela



ITM: production forecast

Life of mine and resource conversion potential

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2012-2015 PRODUCTION FORECASTS Model until reserves depleted

Account for potential for further conversion?

OVERALL

4-year outlook provided

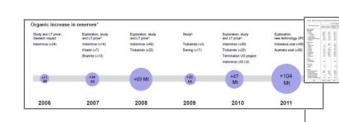
Breakdown of Indominco, Bharinto and Tandung Mayan is available

INDOMINCO BREAKDOWN

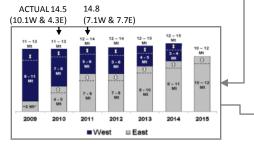
Actual in 2010 and 2011 higher than guidance in 2009. Additional tonnage came from West block

BHARINTO BREAKDOWN

Looks roughly in line with the 5-years plan



INDONESIA COAL (ITM): SALEABLE COAL 100% BASIS 33 30 25 20 15 10 5 0 2011 2012 2013 2014 2015





Focus section (Banpu's 4Q11 presentation) Reserves statement **Coal operation** Track record for (Banpu's 1Q12 QRP) reserves upgrade Focus section (Banpu's 2Q09 presentation) Production at west block was more than original plan presented in 2Q09 ORP

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SOURCES

Focus section (Banpu's 2Q11 presentation)



ITM: stripping ratios

Historical numbers may not be a good indicator for future stripping ratios

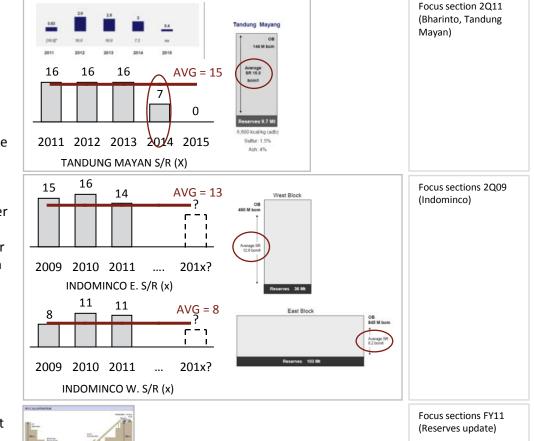
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NOTE ON STRIPPING RATIO Historical S/R is not necessarily a good guidance for future S/R

Stripping ratios higher than avg. implies lower stripping ratios in the future

Indominco stripping ratio should be lower in the longer term – actual S/R are higher than avg. S/R shown in 2009 focus section...



... but this may somewhat be off-set from deeper reserves from IPCC ILLUSTRATIVE ONLY

SOURCES



ITM: operating cash cost

Estimate OB removal cost

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OPERATING CASH COST BY MINE (US\$/t) EBITDA numbers exclude financing and derivative gain/loss

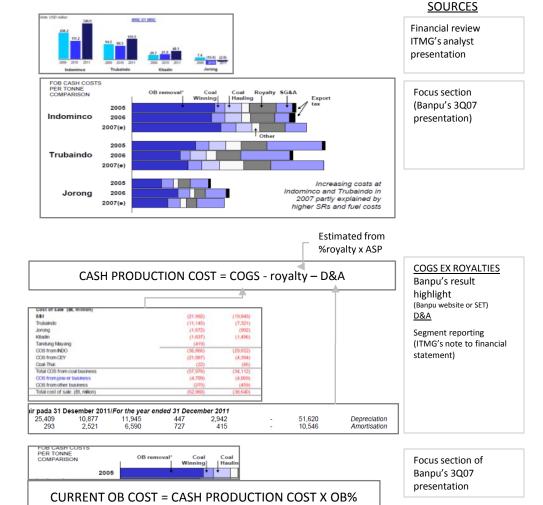
BREAKDOWN

 Major cost components are (a) OB removal (driven by S/R) and logistics in SG&A (driven by distance and mode of transportation)

OB removal cost can be estimated by

A) Calculate cash production cost

B) Estimate OB removal percentage from production cost



Disclosure and valuation workshop



ITM: operating cash cost

Adjust opex with future stripping ratios and fuel cost

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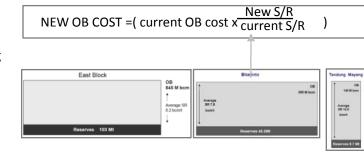
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OPERATING CASH COST BY MINE (US\$/t)

STRIPPING RATIO Adjust OB costs

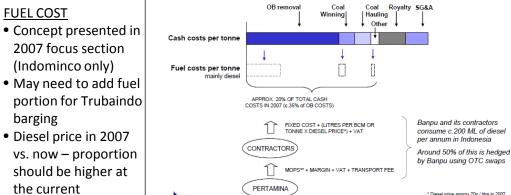
- with new stripping ratio
- W. Block and F. Block OB cost can also be estimated separately (Indominco's OB cost is likely to be lower when production from W.block decreases)

barging



SOURCES Focus sections (Indominco, Bharinto and TDYM)

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BANPU

Focus section of Banpu's 3Q07 presentation

** Mean of Platts Singapore gasoil price



ITM: average selling prices forecast

ASP by mine as a % discount (premium) to benchmark coal prices

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COAL **SPECIFICATION** BY MINE

ASP (DISCOUNT **TO BENCHMARK** COAL PRICE)

- Qualification (esp. CV) impacts ASP
- Basis (GAD or GAR)
- Different by mines

Actual

 Incorporate other factors (e.g. blending synergies and impact from contracts)

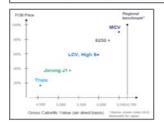
HPB

- Not benchmark but provides guidance for several grades (Indominco East block, Trubaindo, and Jorong)
 - Focus section
- Provide analysis on price to quality relationship against benchmark coal price

| Coal Specificatio | n | | | | |
|----------------------|---------|-------|-------|--------|------------------------|
| | | | TCM | | Product specification |
| Parameters | | HOUIS | HENIS | IDV.IS | (ITM website) |
| A As Received (ARB) | | | | | |
| Total Moisture | N | 12.50 | 12.00 | 16.00 | Indominco west block a |
| Srom Calorific Value | Kcal/hg | 6,351 | 6,460 | 5,932 | (3Q07 focus section) |
| Net Calorific Value | Real/hg | 6,054 | 6,155 | 1,605 | |
| Hydrosgen | | 4.36 | 4.58 | 4.54 | Bharinto and TDMY (GA |
| Duigson | 26 | 10.28 | 10.35 | 10.36 | (2Q11 focus section) |
| Andy | N | 5.37 | 4.68 | 5.60 | |
| Volatile Matter | N | 38.58 | 38.38 | 37.49 | |
| Total Sulfur | * | 0.75 | 1.699 | 0.76 | |

| Sales revenue (Bt, million) | 2011 | 2010 |
|----------------------------------|---------|--------|
| MM | 43,209 | 34,268 |
| Trubaindo | 23,085 | 14,838 |
| Jorong | 2,775 | 1,488 |
| Kitadin | 3,421 | 2,735 |
| Tandung Mayang | 1,604 | |
| Sales revenue - INDO | 74,093 | 53,329 |
| Sales revenue - CEY | 32,751 | 6,498 |
| Sales revenue - Thai | 30 | 74 |
| Total revenue from coal business | 106,874 | 59,901 |
| Revenue from powier business | 5,236 | 4,865 |
| Revenue from other business | 293 | 520 |
| Total revenues (Bt, million) | 112,404 | 65,285 |

| | MEREK DAGANG/ | KU | HPB MARKER | | | |
|----|-------------------|------------------|---------------|---------------|---------------|------------|
| NO | BRAND | CV (kcal/kg GAR) | TM (%, ar) | TS (%, ar) | Ash (%,ar) | (US\$/ton) |
| 1 | Gunung Bayan I | 7,000 | 10.0 | 1.0 | 15.0 | 109.81 |
| 2 | Prima Coal | 6,700 | 12.0 | 0.6 | 5.0 | 108.32 |
| 3 | Pinang 6150 | 6,200 | 14.5 | 0.6 | 5.5 | 97.67 |
| 4 | Indominco IM_East | 5,700 | 17.5 | 1.6 | 4.8 | 83.33 |
| 5 | Melawan Coal | 5,400 | 22.5 | 0.4 | 5.0 | 79.08 |
| 6 | Envirocoal | 5,000 | 26.0 | 0.1 | 1.2 | 73.28 |
| 7 | Jorong J-1 | 4,400 | 32.0 | 0.3 | 4.2 | 59.07 |
| 8 | Ecocoal | 4,200 | 35.0 | 0.2 | 3.9 | 53.66 |



Indominco west block and east block (GAD)

Historical (banpu's result highlight)

HARGA PATOKAN BATUBARA (HPB) (ESDM website http://mail.djmbp.esdm.go.id/ files/)

Focus section (Banpu's 2009 analyst presentation)

SOURCES Marketing section (ITMG's website)

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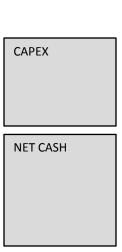
Focus section (E.Block, W.Block, Bharinto, TDMY)



ITM: capex and net debt



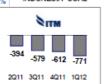
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- Only the growth capex is shown
- Need to account the operating improvement that the capex is intended to bring about in the model

| PROJECT NAME | PROGRESS | Total CAPEX 2012 - 15 only (c.US\$m) | 2012 | 2013 | 2014 | 2015 |
|---------------------------------|----------------------|--|------|------|------|------|
| Bharinto | Production stage | 100 | | | | • |
| IMM - East block IPCC System | Feasibility Study | 185 | • | | | • |
| BoCT expansion to 30 Mtpa | Feasibility Study | 40 | • | | - | |
| Bunyut port expansion | Feasibility Study | 20 | | | | |







Coal operations: Indonesia coal (Banpu's 1Q12 presentation)

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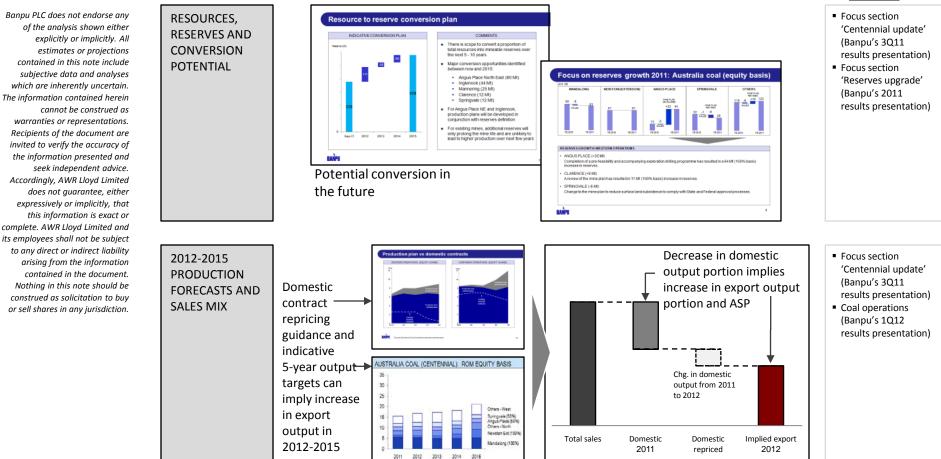
Banpu group net debt breakdown (Banpu's 1Q12 presentation)



Centennial: reserves and production

Estimate domestic and export portion

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SOURCES



Centennial: cost structure, capex and gearing

Domestic and export cost?

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COST

CAPEX

NET DEBT

STRUCTURE

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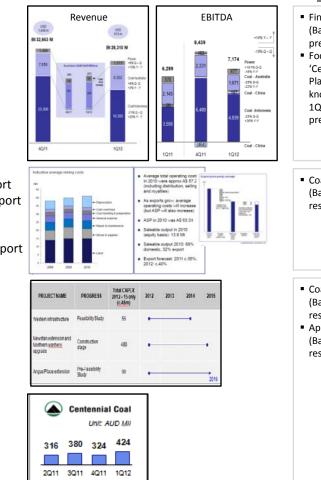
POTENTIAL COST BREAKDOWN? 1) Cash mining cost (A\$/t) = Revenue – EBITDA - Royalty Sales volume 2) Royalty is c.7% of revenue 3) Additional export costs (i.e. washing, logistics) from export price parity concept Cash costs likely to be higher with more e

Cash costs likely to be higher with more export Cost in repricing slide can help estimating export cost

- Export cost = domestic cost + A\$30-35/t?

- (Dom. cost x dom. Sales) + (Export cost x export sales) = cash cost

Discretionary capex but no sustaining capex



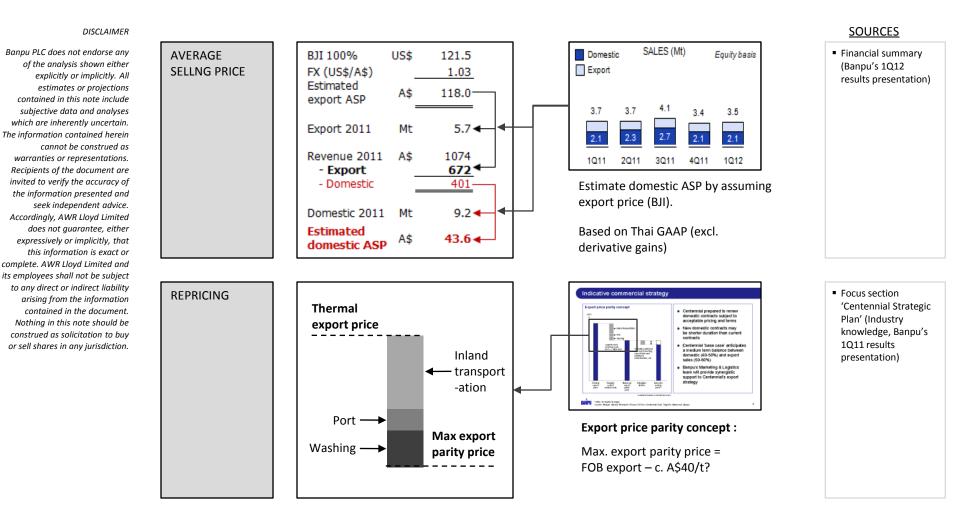
SOURCES

- Financial summary (Banpu's results presentation)
- Focus section 'Centennial Strategic Plan' (Industry knowledge, Banpu's 1Q11 results presentation)
- Coal operations (Banpu's 1Q12 results presentation)
- Coal operations (Banpu's 1Q12 results presentation)
- Appendices (Banpu's 1Q12 results presentation)



Centennial: average selling prices

ASP for domestic and domestic reprice







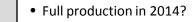
PRODUCTION

ASP

Will the margin at full production improve?

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- Reserves support 30 years minelife
- Difficult to guess ASP and cost without knowing how products will be sold and to which market but can guess margin? (e.g. better or worse margins compared to other mines)

• Gaohe (2% lump, 37% PCI,

60% high CV thermal), 6Mt

production – economy of

Hebi or Gaohe's financials

- CASH COST

GAOHE NET DEBT AND AACI O/H

- Should at least have better margin/t compared to Hebi? Overheads not included in
- \$2-7m per quarter

scale?



Coal operations (1Q12 QRP)

SOURCES

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| ASP (US\$/t) | 2009 | 2010 | 2011 | Historical results |
|--------------|-----------|------------|-----------|-----------------------|
| BJI | 72 | 99 | 121 | (previous QRP) |
| Daning | 79 (109%) | 95 (96%) | | |
| Hebi | 85 (118%) | 108 (109%) | 74 (61%) | |
| Gaohe | | | 114 (94%) | |
| Cost (RMB/t) | 2009 | 2010 | 2011 | |
| Daning | 243 | 298 🗙 | | |
| Hebi | 408 | 480 🗸 | 482 | |
| Gaohe | | | 469 | |
| | | | | |



EBITDA breakdown (1Q12 QRP)



Hebi

Will 2011 performance come to and end?

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| | | | <u>SOURCE</u> |
|--------------------------------------|--|--|---|
| 2012-2015 PRODUCTION FORECASTS | • 1.5 – 1.7Mtpa in 2009 – 2011 | 0.4 0.5 0.5 0.3 0.2 0.3 1011 2011 3011 4011 1012 2012 Hebi CV: 5300-6800 Kcal/kg** 206 206 206 | Coal opera (1Q12 QRP Focus secti (1Q06 QRP |
| AVERAGE SELLING PRICES | ASP provided. Intl. prices not ideal for short term forecast but should be okay for long term? | CHINA COAL: ROM EQUITY BASIS | Previous Q (Banpu's 1 results presentatio |
| CASH COST | 2011 performance to continue? Revenue less production cost reconciles with EBITDA High spending on Q4 – cash basis rather than accrual (safety according to govt. regulation?) | PRICE vs. COST (RMB/t) 771 764 480 480 512 435 4Q10 3Q11 4Q11 | |
| NET CASH | • \$9m at end of 1Q12 | Hebi -24 -38 -29 -9 2011 3011 4011 1012 | |

SOURCES

rations RP) ction RP)

QRPs 5 1Q12 tion)



Hunnu: revenues

Lots of information on coking coal but not thermal coal producer in Gobi area - South Gobi ?

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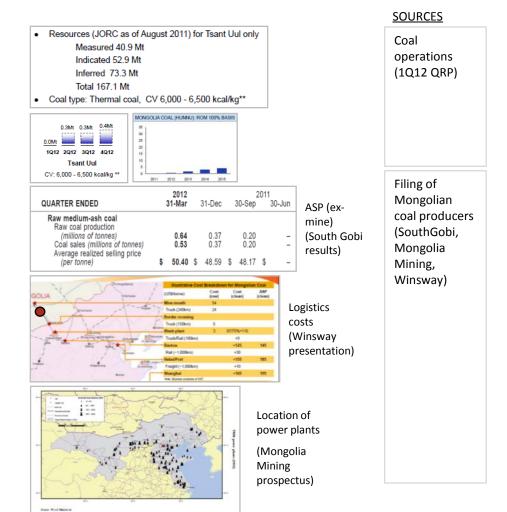
RESERVES

PRODUCTION

ASP

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- Thermal or coking?
 - Only resources / no reserves
 - How much will be converted
 - Based on latest samples not average of the deposit
- 5Mt by 2015
- From which project?
- Stripping ratio?
- Most producers focus on coking coal.
- Point of sales (ex-mine, at border, FOR)?
- South Gobi provides some info on thermal prices (exmine price)
- Sell ex-mine? Ex-mine price
 = prices at pricing point
 (e.g. at border)less logistics
 costs to the selling point





Hunnu: cost, capex, net cash

Focus on cash cost for thermal coal with similar stripping ratio

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CASH COST

CAPEX

O/H

NET CASH

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| • Considerations: point of sales (e.g. |
|--|
| ex-mine), stripping ratio, washed or |
| unwashed |
| |

- For coal sold ex-mine, cash costs of other operations with similar S/R (South Gobi??)
- For Tsant Uul and Altai Nuurs

• \$1-2m per quarter

• \$9m net cash at 1Q12

 Need to match capex with CFs (e.g. CFs from Altai Nuurs)

| | 2012 | | 2 | 201 | 1 | |
|--|--------|-------------|-------------|-----|--------|-------------|
| QUARTER ENDED | 31-Mar | 31-Dec | 30-Sep | | 30-Jun | 31-Mar |
| Costs Direct cash costs of product sold | | | | | | |
| (per tonne) ⁽⁰⁾ S Total cash costs of product sold | 10.80 | \$ 22.14 | \$ 22.64 | S | 26.77 | \$ 18.91 |
| (per tonne) ⁽¹⁾ | 15.04 | \$ 23.09 | \$ 23.17 | \$ | 27.61 | \$ 20.61 |
| Waste movement and stripping ratio Production waste material moved | | | | | | |
| (millions of bank cubic meters) Strip ratio (bank cubic meters of waste | 2.20 | 4.58 | 4.10 | | 4.08 | 3.85 |
| rock per tonne of coal produced) Pre-production waste material moved | 2.07 | 3.42 | 3.28 | | 4.74 | 3.47 |
| (millions of bank cubic meters) | - | - | 0.39 | | 0.80 | 0.49 |

CAPEX TIMELINE CAPEX PROJECT NAME 2012 - 15 only 2012 2013 PROGRESS 2014 2015 (US\$m) 200 Tsant Uul Production stage Altai Nuurs Exploration 200 and early stage dev (INDICATIVE ONLY) SOURCES

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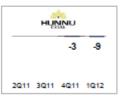
| Filling OI |
|----------------|
| Mongolian |
| coal producers |
| (SouthGobi, |
| Mongolia |
| Mining, |
| Winsway) |
| |
| |

Coal operations (1Q12 QRP)

EBITDA breakdown (1Q12 QRP)

Net debt breakdown (1Q12 QRP)







ILLUSTRATIVE ONLY BLCP: key parameters for Thai power business

Key valuation driver is future AP and negotiation on supply agreement

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AVAILABILITY PAYMENT through mechanism AND ENERGY PAYMENT agreement? **EBITDA** estimate EBITDA NET DEBT TAX 30% CIT, thereafter CAPEX

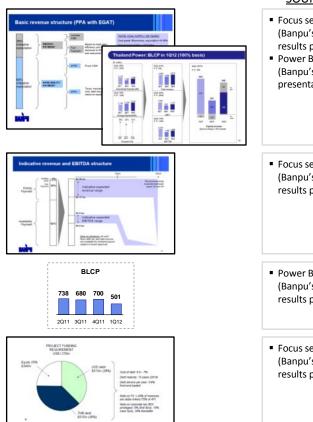
- Energy payment ('EP') is fuel cost pass
- Higher fuel cost means higher EP
- EBITDA is generally close to AP (e.g. AP accounts for less fixed O&M cost)
- Impact from negotiation on the coal supply
- Focus section 'BLCP' provides guidance to
- Future EBITDA is expected to decrease, esp. after debt is paid off (by 2019?)

Banpu includes BLCP net debt in 1Q12 results presentation's appendices and will update it every quarter.

Obtained BOI privileges:

- Tax holding, 0% CIT, for the first 8 years
- 15% CIT for the next 5 years

Require maintenance CAPEX?



SOURCES

- Focus section 'BLCP' (Banpu's 2006 results presentation)
- Power Business (Banpu's results presentation)
- Focus section 'BLCP' (Banpu's 2006 results presentation)
- Power Business (Banpu's 1Q12 results presentation)
- Focus section 'BLCP' (Banpu's 2006 results presentation)



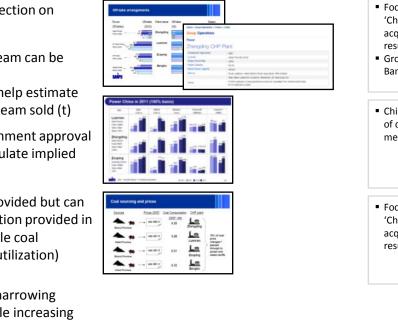
BIC – China power

Information available but relatively small compared to other assets, may not require DCF?

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| R | | |
|----------------------------|------------|--|
| y r II | PPA LIFE | Can be found in the focus section on 'China CHP acquisition' |
| e s n s | CAPACITY | Both data on power and steam can be found in Banpu's website. If used with utilization can help estimate electricity sold (kwh) and steam sold (t) |
| e f d d r | TARIFFS | Tariffs are subject to government approval Using available data to calculate implied steam tariffs |
| t r d t y n | COAL COSTS | Coal consumption is not provided but can be estimated from information provided in 2005 focus section (e.g. scale coal consumption according to utilization) |
| 2 V | EBITDA | • EBITDA margin have been narrowing (relatively stable tariffs while increasing coal costs), will the plants benefit from lower coal prices? |
| | NET DEBT | Banpu includes BIC's net debt in 1Q12 results presentation's appendices and will update it every quarter. |
| | САРЕХ | Require maintenance CAPEX? |
| | | |





 1Q12 analyst presentation

SOURCES

- Focus section on 'China CHP acquisition' in 2005 result presentation
 Group operation in Banpu's website
- China power section of quarterly analyst meeting
- Focus section on 'China CHP acquisition' in 2005 result presentation



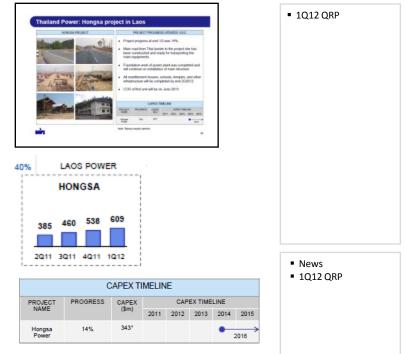


Capex and net debt available. Need to guess AP curve and return. Or use multiples?

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- DEVLOPEMENT PROGRESS EBITDA No info on AP curve estimate cash flows for DCF NET DEBT update it every quarter. CAPEX equity) \$340m
 - Update quarterly in analyst presentation
 - Need to guess AP curve and return to
 - May need to use multiples instead
 - Banpu includes Hongsa's net debt in 1Q12 results presentation's appendices and will
 - \$3.7 bn project value (75:25 debt to
 - Banpu's remaining equity contribution



SOURCES



1. Objectives

2. DCF analysis

3. SOTP multiples analysis

4. Who we are



Note on NPV analysis vs. multiples analysis

What does a multiple imply ?

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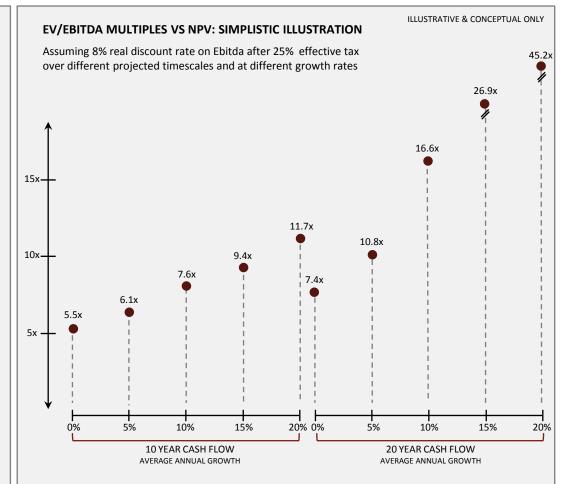
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Multiples are a kind of 'quick and dirty' form of DCF valuation.

PE is one of the most misleading multiples because it doesn't take into consideration different levels of gearing and because earnings are not a good proxy for cash flow.

A forward looking EV/Ebitda multiple (ie based on next year's expected Ebitda) is a better proxy and a better form of valuation comparison between companies.

For example if we assume an 8% real discount rate and 25% effective tax, we can estimate the relationship between DCF and EV/Ebitda X (right)

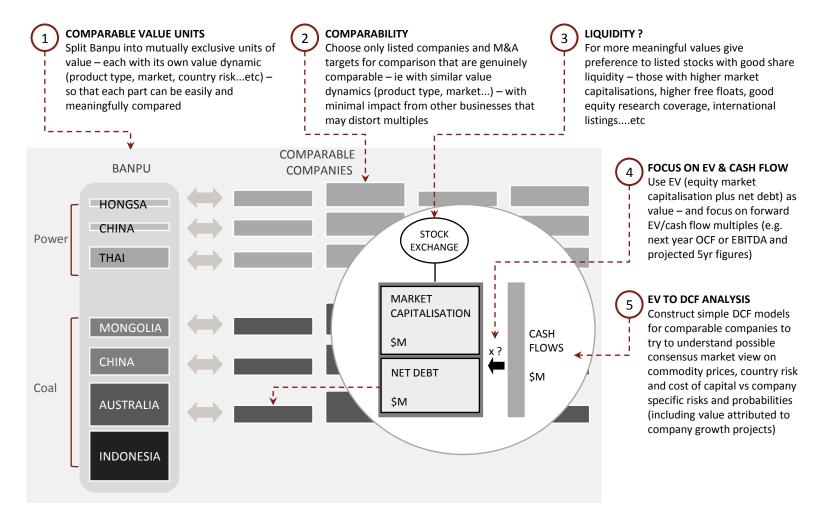




Note on SOTP multiples analysis

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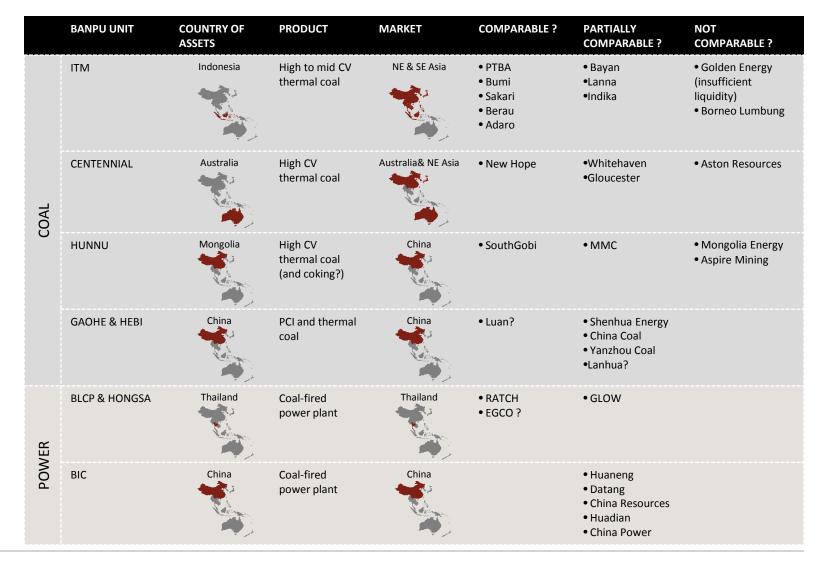




Banpu comparables?

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Disclosure and valuation workshop



Summary of suggested methodologies

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| BANPU UNIT | SUGGESTED METHODS ? |
|------------|---|
| ITM | 65% of market capitalisation |
| Centennial | Apply EV/Ebitda 2012e for New Hope to estimated Centennial 2012e Ebitda Deduct net debt |
| Gaohe | Estimate full production Ebitda (2013e) Multiply by China Coal Energy EV/Ebitda 2013e Deduct net debt Multiply by 45% |
| Hebi | Estimate 2013e Ebitda and multiply by China Coal Energy EV/Ebitda 2013e Deduct net debt (add net cash) Multiply by 40% |
| AACI OH | • Multiply AACI OH by China Coal EV/Ebitda 2013e (x) |
| Hunnu | Multiply Hunnu resources by South Gobi EV/tonne resources Deduct capx (\$200m) to get Hunnu to save output as South Gobi Add net cash Multiply by development risk factor of 50% |
| BLCP | Estimate 2012e Ebitda and multiply by EGCO EV/Ebitda 2012e Deduct net debt Multiply by coal supply risk factor of 90% Multiply by 50% ownership |
| Hongsa | Estimate Ebitda on full commissioning and multiply by EGCO EV/Ebitda 2012e Deduct capex Multiply by 50% development risk factor Multiply by 40% ownership |
| BIC | Estimate 2012e Ebitda and multiply by average Chinese power sector EV/Ebitda 2012e Deduct net debt Adjust for OH and 70% ownership of ZP |
| CORPORATE | Deduct Banpu corporate net debt Multiply Banpu corporate OH by average Indo/Australia EV/Ebitda 2012e |

ILLUSTRATIVE ONLY



Centennial: EBITDA and comps approach

Applying EV/EBITDA multiple of New Hope Coal

RATIONALE FOR SELECTING A COMPARABLE PEER

New Hope Coal is selected as a comparable peer because of similarity in product type, production stage, and volume growth profile

| | Centennial Coal | New Hope Coal | Rey Resources | Whitehaven | Gloucester |
|--|--|---|---------------|-------------|-------------|
| Production type | Thermal | Thermal | Thermal | Met/Thermal | Met/Thermal |
| Production stage | Exploiting | Exploiting | Developing | Exploiting | Exploiting |
| Volume growth profile 3-years CAGR* (2011- 2014) | 6% | 5% | - | 41% | 54% |
| ASP growth profile | 60% of total volume has a potential of being repriced | 10% of total volume has a potential of being repriced | - | - | - |

ASSUMPTIONS FOR FORECASTING 2012E EBITDA

| | 2012E | NOTE | | |
|-----------------------|---------|--|--|--|
| Sale volume (Mt) | | | | |
| -Domestic | 9 | Based on indicative volume forecasts in 1Q12's analyst presentation | | |
| -Export | 7 | analyst presentation | | |
| ASP (A\$/t) | | Using implied export ASP and sale volumes | | |
| -Domestic | 44 | breakdown (export vs. domestic) to calculate | | |
| -Export | 119 | implied domestic ASP | | |
| Cash cost ex. royalty | (A\$/t) | | | |
| Domestic | 35 | Based on 2011's implied calculation | | |
| Export | 68 | | | |
| Royalty (%) | 7.2% | Using historical data | | |

* From broker reports

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HONGSA

BLCP

GAOHE

& HEBI

HUNNU

CEY

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Hunnu: EV/t resource and comps approach

Using EV/t Resource multiple of SouthGobi Resources

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| BIC HONGSA BLCP |
|-----------------------|
| GAOHE & HEBI |
| HUNNU |
| CEY |

RATIONALE FOR SELECTING A COMPARABLE PEER

EV/t resources of SouthGobi Resources is selected because the company has the closest similarity in terms of product type and coal quality among other peers (most peers are coking coal only producers - i.e. Mongolia Mining, Mongolia Energy and Aspire Mining)

| | HUNNU | SOUTHGOBI |
|------------------|----------------|---------------|
| CV (Kcal/kg) | 6,000 - 6,500 | 6,000 - 7,300 |
| Total moisture | 3.99% to 6.51% | - |
| Ash | 17.5% to 39.0% | 8.0% to 19% |
| Sulphur | 0.28% to 0.65% | - |
| Volatile matters | 22.0% to 42.4% | < 19% |
| Total Resources | 843.5 | 803 |
| Total M&I | 695 | 548 |
| Total Reserves | | 176 |
| Productions | 3.0 – 5.0 Mt | - |

ITM



China Coal: EBITDA and comps approach

Applying EV/EBITDA multiple of China Coal Energy

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BIC HONGSA BLCP GAOHE & HEBI HUNNU CEY

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RATIONALE FOR SELECTING A COMPARABLE PEER

China Coal Energy is selected as comparable company to Gaohe and Hebi because of the similarity in production growth profile

| PRODUCTION VOLUME GROWTH* (%) | 2012E | 2013E | 2014E | 2015E |
|-------------------------------------|-------|-------|-------|-------|
| SHENHUA ENERGY | 9% | 7% | 18% | 7% |
| CHINA COAL | 11% | 11% | -1% | 0% |
| YANZHOU | 10% | 15% | 51% | |

GAOHE: ASSUMPTIONS FOR FORECASTING 2013E EBITDA

| | 2013E | NOTE |
|-------------------|-------|--|
| Production (Mt) | 6.0 | At full capacity |
| ASP (Rmb/t) | 740 | Linkage to benchmark coal price |
| Cash cost (Rmb/t) | 310? | Based on 2011 's costs (Assumed 50% fixed and 50% variable) |

HEBI: ASSUMPTIONS FOR FORECASTING 2013E EBITDA

| | 2013E | NOTE |
|-------------------|-------|--|
| Production (Mt) | 1.7 | Stable from 2011's |
| ASP (Rmb/t) | 800 | Linkage to benchmark coal price |
| Cash cost (Rmb/t) | 480 | Assumed stable cash costs from 2011's figure |

* From broker reports



BLCP: EBITDA and comps approach

Applying EV/EBITDA multiple of RATCH

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| bic Hongsa |
|-----------------|
| BLCP |
| GAOHE & HEBI |
| HUNNU |
| |
| CEY |
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RATIONALE FOR SELECTING A COMPARABLE PEER

EGCO is most ideal for selecting as comparable company due to similarity in production growth profile, but its EBITDA numbers consolidated only few power plants (contribution from remaining assets is booked into equity income) make EV/EBITDA multiple to be misleading.

GLOW's capacity will peak out in 2012 (showing 35% YoY capacity growth for the year) and the company will fully recognise earnings in 2013

RATCH is, then, chosen as comparable company because of its similarity in capacity growth profile to BLCP

| | CAPACITY GROWTH* (%) | | | | EV/EBITDA** (x) | |
|-------|----------------------|-------|-------|-------|-----------------|-------|
| | 2012E | 2013E | 2014E | 2015E | 2012E | 2013E |
| EGCO | 0.4% | 0% | 0% | 0% | 13.2 | 19.5 |
| RATCH | 6% | 1% | 1% | 1% | 8.2 | 8.1 |
| GLOW | 35% | 0% | 0% | 0% | 10.9 | 8.9 |

ASSUMPTIONS FOR FORECASTING 2012E EBITDA

| | 2012E | NOTE |
|--------------------------------|--------|--|
| Utilization (%) | 95% | Taking average of historical data |
| Availability payment (THB/kwh) | 0.67 | Based on 2011's figure |
| Energy payment (THB/kwh) | 0.83 | Based on 2011's figure |
| Coal cost (US\$/t) | 86 | Based on 2011's figure – Subtracting EP revenue (equivalent to fuel cost) with other variable cost |
| Other variable cost (THB mn) | 498 | 5% of EP revenue and link to utilization rate |
| Fuel cost (THB mn) | 9,847 | Adding coal cost with other variable cost |
| O&M (THB mn) | 238 | Based on 2011's figure (cash cost minus fuel cost assumptions) |
| Cash costs (THB mn) | 10,085 | |
| * From broker reports | | |

** Bloomberg consensus



HONGSA: EBITDA and DCF

Applying EV/EBITDA multiple of RATCH and adjust with capex and net debt

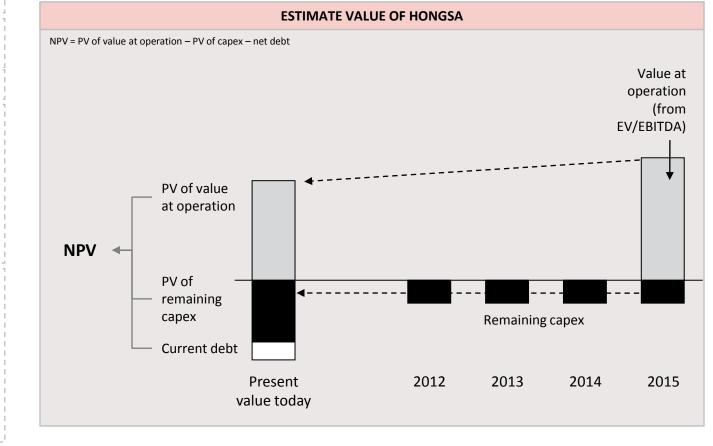
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RATIONALE FOR SELECTING A COMPARABLE PEER

Applying the same EV/EBITDA multiple that BLCP got (operation, no growth)





Applying EV/EBITDA multiple of China power peers

RATIONALE FOR SELECTING A COMPARABLE PEER

Average EV/EBITDA multiple of China power peers is applied to the valuation.

| | ASSOIVIE | | | IG 2012E EBITDA |
|------------------------|----------|-----------|---------|--|
| | LUANNAN | ZHENGDING | ZOUPING | NOTE |
| Utilization (%) | 69% | 83% | 79% | Based on 2011's figure |
| Steam produced (Mt) | 0.8 | 1.3 | 3.1 | Using utilization hours and multiply with steam capacity |
| Coal consumption (Mt) | 0.3 | 0.28 | 0.52 | Using coal consumption by plant that Banpu provided in focus section of 2005's analyst presentation to calculate the consumption rate at full capacity and then linked th outcome with changes in utilization rates |
| Power tariff (RMB/kwh) | 0.44 | 0.38 | 0.39 | Based on 2011's figure |
| Steam tariff (RMB/t) | 26 | 102 | 105 | Based on 2011's figure |
| Coal cost (RMB/t) | 671 | 645 | 839 | Based on 2011's figure and linked it with the change in JPU prices |
| O&M (RMB mn) | 47 | 10 | 50 | Based on 2011's figure |
| Cash cost (RMB mn) | 251 | 191 | 485 | |

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HONGSA

BLCP

GAOHE

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1. Objectives

2. DCF analysis

3. SOTP multiples analysis

4. Who we are



Our services

AWR Lloyd's professional client services

AWR Lloyd provides professional services in three key areas

Corporate finance strategy

- Value-maximizing corporate strategy
- M&A and BD strategy
- Capital structure and financial planning
- Corporate restructuring
- Investor relations and market signals analysis
- Stock market, IR and IPO strategy
- Takeover contingency

Corporate finance transactions

- Equity capital placement
- Project finance advisory
- Commercial agreements
- M&A
- Divestments and privatizations
- IPOs
- Strategic equity investment
- Public equity investment

Industry and project studies

- Pre-feasibility studies
- Financial modeling and economic feasibility
- Market and industry studies:
 - Gas/LNG
 - Power
 - Renewables
 - Coal
 - Minerals and metals
- Infrastructure

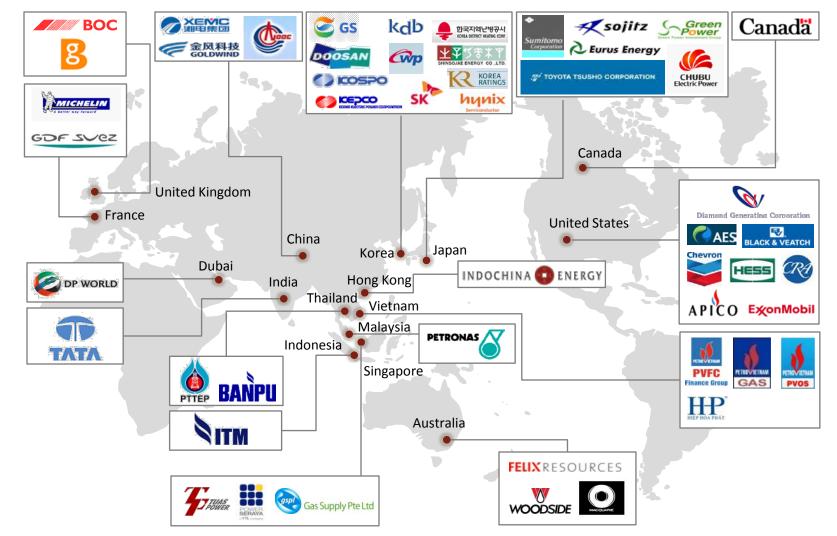


A selection of our clients

AWR Lloyd works with a range of blue-chip industry clients and mid-sized players

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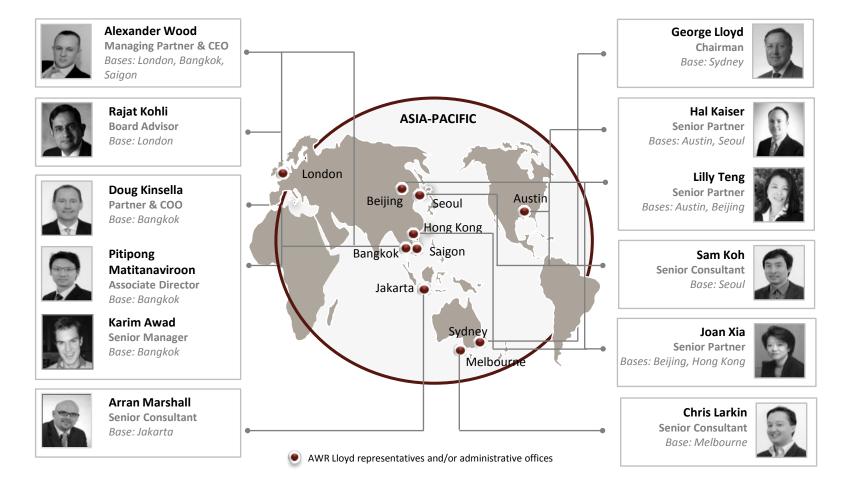


AWR Lloyd's senior management

The firm's Partners, Associate Directors and Senior Consultants

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Our sectors

AWR Lloyd's industry specialization

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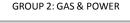
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GROUP 1: MINING & METALS













GROUP 3: OIL & PETCHEM



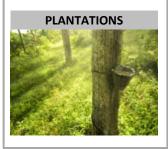




GROUP 4: INFRA. & PLANTATIONS









Strategy consulting and IR

Professional services

| | Corporate strategy | Growth strategy | Mid-term financial planning | Investment decisions |
|---|--|--|---|--|
| ategy nsulting and IR | To advise on value-maximizing corporate strategy, we assess a company's core skills and competitive advantages – as well as the growth potential around these strengths. We can also help clients break down and analyse past and future TSR* performance into key value drivers. *Total Shareholder Returns | AWR Lloyd provides in-depth analysis of growth opportunities via both organic business development and M&A. We can also help clients improve their business development methods and systems. | AWR Lloyd helps clients set optimal mid term capital structure targets through application of tax efficiency criteria, peer analysis and assessment of rating agency benchmarks. By modeling cash flow and funding requirement scenarios, we can then help clients develop appropriate medium term finance plans. | Poor valuation skills or investmen approval process can lead to missed opportunities or value- destroying investment decisions. AWR Lloyd can help clients to implement 'best practice' valuation methodologies and investment evaluation techniques We can also help improve investment approval processes. |
| &A advisory | IR materials | IR targeting | IR systems | Market signals analysis |
| lustry research d commercial visory | AWR Lloyd helps stock market listed clients develop their core 'value' message consistently in words and images via all the main corporate communication materials: quarterly analyst presentations, roadshow presentations, news releases, annual reports, corporate brochures and websites. | Some listed companies have difficulty achieving fair value share price performance due to poor investor targeting. AWR Lloyd helps clients optimize and extend coverage by fund managers, equity analysts and business journalists. In some cases this involves reviewing the company's stock market listing strategy. | AWR Lloyd helps clients set up IR teams – and provides training in 'fair value IR'. AWR Lloyd can also help implement best practice IR feedback systems and IR management reporting procedures. | AWR Lloyd can conduct independent and anonymous interviews and with fund managers and analysts to get in- depth feedback about how they value a company - and how they view its strategy and IR programme. The analysis can be used to identify the reasons for any 'gaps between a share price and fair value. |



Focus on IR services

Professional services

Strategy consulting and IR

Financial and M&A advisory

Industry research and commercial advisory

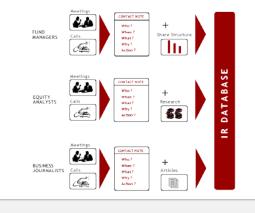


AWR Lloyd helps stock market listed clients develop their core 'value' message consistently in words and images via all the main corporate communication materials: quarterly analyst presentations, roadshow presentations, news releases, annual reports, corporate brochures and websites.



IR systems

AWR Lloyd helps clients set up IR teams – and provides training in 'fair value IR'. AWR Lloyd can also help implement best practice IR feedback systems and IR management reporting procedures.





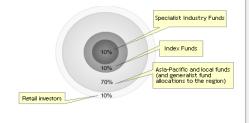
Market signals analysis

AWR Lloyd can conduct independent and anonymous interviews and with fund managers and analysts to get in-depth feedback about how they value a company and how they view its strategy and IR programme. The analysis can be used to identify the reasons for any 'gaps' between a share price and fair value.



IR targeting

Some listed companies have difficulty achieving fair value share price performance due to poor investor targeting. AWR Lloyd helps clients optimize and extend coverage by fund managers, equity analysts and business journalists. In some cases this involves reviewing the company's stock market listing strategy.





Financial and M&A advisory

Professional services

| | AWR Lloyd is first and foremost an M&A firm. We are keenly aware of the risk of actually destroying shareholder value through M&A and so we always pay particular attention to dynamics of valuation in any deal. |
|----------------------------|---|
| Strategy consulting and IR | And, importantly, the firm doesn't just 'give advice'. We also act as managers, facilitators and negotiators-driving deals forward to successful conclusions. |
| | AWR Lloyd works with clients on: |
| | Mergers |
| | Acquisitions |
| | Divestments |
| Financial and | Privatizations |
| M&A advisory | Restructuring deals |
| | Strategic investments. |
| | We advise on all critical aspects including: |
| | Planning |
| | Targeting |
| Industry research | Screening |
| and commercial | Short-listing |
| advisory | Evaluation |
| | Transaction structuring. |



Professional services

Industry research and commercial advisory

AWR Lloyd conducts special industry studies assessing the demand outlook, corporate structure, regulatory framework, cost economics and price dynamics of particular industries in the Asia-Pacific region. These studies help our resources clients plan entry and growth strategies in new markets. The studies can also be linked to valuation models for scenario and risk analysis of projects and investment transactions. Alternatively our studies can help governments and major consumers plan long term energy and raw materials procurement strategies.

| Strategy consulting and IR | Pre-feasibilities study | Country long term fuel supply strategy | LNG market studies |
|---|--|--|---|
| | AWR Lloyd can conduct pre-feasibility studies for greenfield and brownfield projects. Our studies include analysis of the dynamics and structure of potential market demand, pricing, competitors, competitive advantages, preliminary technical parameters, infrastructure, transport and logistics, sponsors, management, HR, socio-environmental issues, development costs, operating cost scenarios and net present value. | AWR Lloyd can advise governments, energy ministries and major energy consumers in the Asia-Pacific region in relation to their long term energy fuel supply strategies for both the mobile (e.g. transport) and stationary (e.g. power) energy markets. We analyze all of the major strategic criteria: economics, security (and reliability) of supply and environmental issues. | AWR Lloyd has extensive experience working for both suppliers and buyers of LNG. The LNG market in Asia is already a significant component of the regional energy market and is growing rapidly. AWR Lloyd provides research and analysis covering the full LNG chain: LNG upstream market supply conditions in the Pacific and |
| Financial and | We provide recommendations in relation to potential financing structures and overall techno-economic feasibility. AWR Lloyd relies very much on local resources and connections to gather intelligence and on grass-roots analysis to support recommendations. | We provide recommendations on the alternative merits of coal, oil, gas, LNG, nuclear and renewable fuel supplies – and the pros and cons of alternative sources of supply both domestically and internationally. AWR Lloyd also advises on the logistics and infrastructure of energy fuel supply– and on strategies for managing fuel price risks. | Atlantic basins, assessment of the pros and cons of alternative suppliers, LNG contracts (HOA, SPA), citygas market studies, power market potential and transportation pricing. |
| M&A advisory | New energy technology potential | Power sector PPA and merchant market studies | Commercial Advisory |
| | AWR Lloyd can provide studies assessing the potential for new energy technologies in the Asia-Pacific region. We analyse the economics of new technologies at their current stage of development - as well as their potential economics in the future. | AWR Lloyd provides multi-layered independent assessments of how much a new plant is needed by the power market depending on its fuel, position in the transmission network and technology. | AWR Lloyd also helps Asian clients directly in originating, developing and negotiating commercial contracts in the energy sector. Our experience in this area includes advising: Large industrial companies on electricity and steam procurement strategies and contracts. |
| Industry research and commercial advisory | AWR Lloyd focuses on the present value of costs per unit of energy delivered. A present value approach provides the correct framework for including the impact of both up-front capital expenditure and operating costs – and for assessing the attractiveness of the new technology as an investment. Overall the approach provides a way that the economics of a technology can be compared in a meaningful way to competing technologies. We also consider the relative environmental and security benefits of the technology – and the potential for governmental and regulatory support. Finally we assess the market potential and provide advice in relation to different commercialization strategies and business models. | We use our proprietary database and software on the Asian power generation, transmission and distribution sector combined with an on-the-ground first-hand evaluation of the project to model potential demand scenarios and to assess risks. We can construct detailed revenue and/or cashflow projection models and provide analysis of key scenarios and sensitivities. Many PPAs were agreed in the 1990s and so are due for renegotiation within the next ten years – or transition to merchant or semi-merchant status. In these cases, AWR Lloyd can help re-assess the risks involved and provide supporting market analysis | Power companies on gas and LNG procurement strategies and contracts Oil and gas companies on gas and LNG supply contracts Power companies on their electricity and steam supply contracts Oil tank farm and terminal companies on developing tank lease agreements with major oil refining and trading companies Oil trading companies on securing short and long term lease agreements for crude oil and petroleum product storage tanks |



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