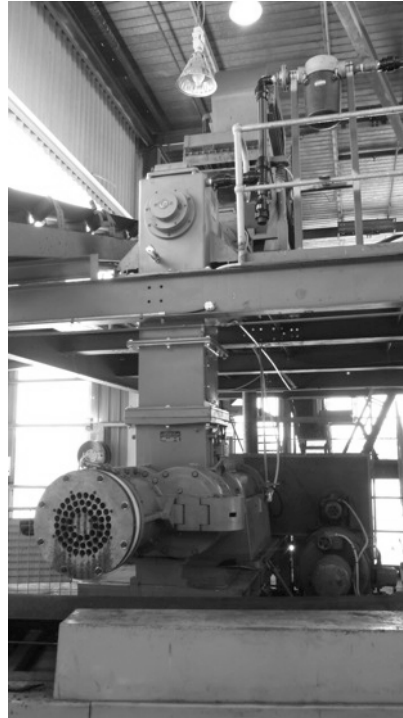


Victorian Coldry Project



**Technology leveraged energy resource export
project in Victorias Latrobe Valley**

Kosmas Galtos | Monday 8th August 2011 | Investorium

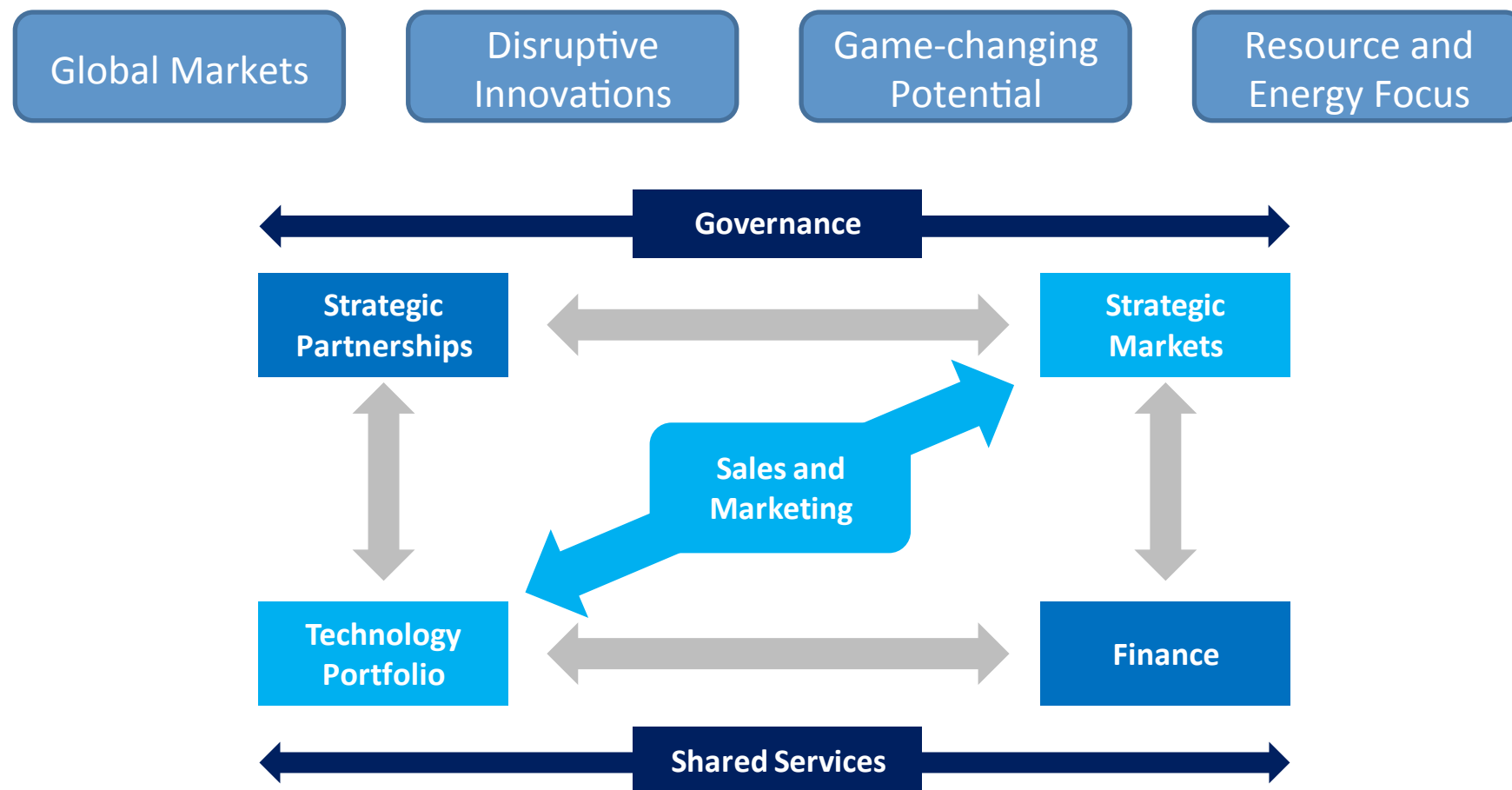
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What you'll get from this presentation

- A snapshot of who we are and what we do
- An introduction to the unique Coldry & MATMOR technologies
- Insight into our technology leveraged energy-resource project
- A financial breakdown of our project potential and its bottom line for investors
- See how the power station owners can unlock new EBITDA and boost their balance sheet through upward valuation

Our Business



ASX:ESI | Shares 895 million | Options 497 million (2c 2014) | Market cap \$9 million

Technology Portfolio

Coldry

Unique Coal Drying and Water Recovery Technology

- An economic method for **dewatering** lignite and sub-bituminous coals
- Exportable **Black Coal Equivalent**
- Low cost CO2 **abatement** solution



Matmor

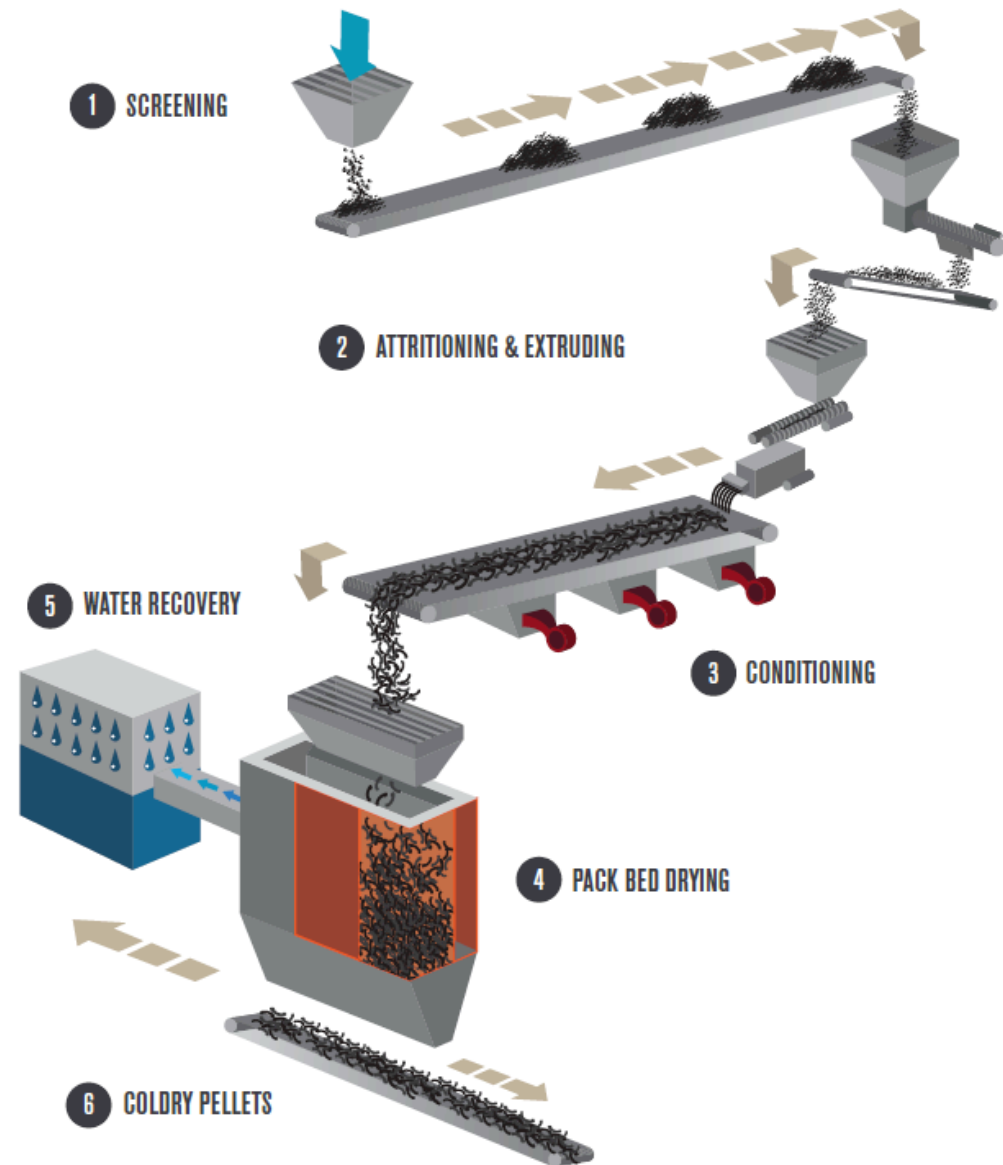
Unique Iron Making Technology

- Primary iron production
- Unique lignite-based process
- Recover iron from waste streams such as iron ore mine tailings and nickel tailings

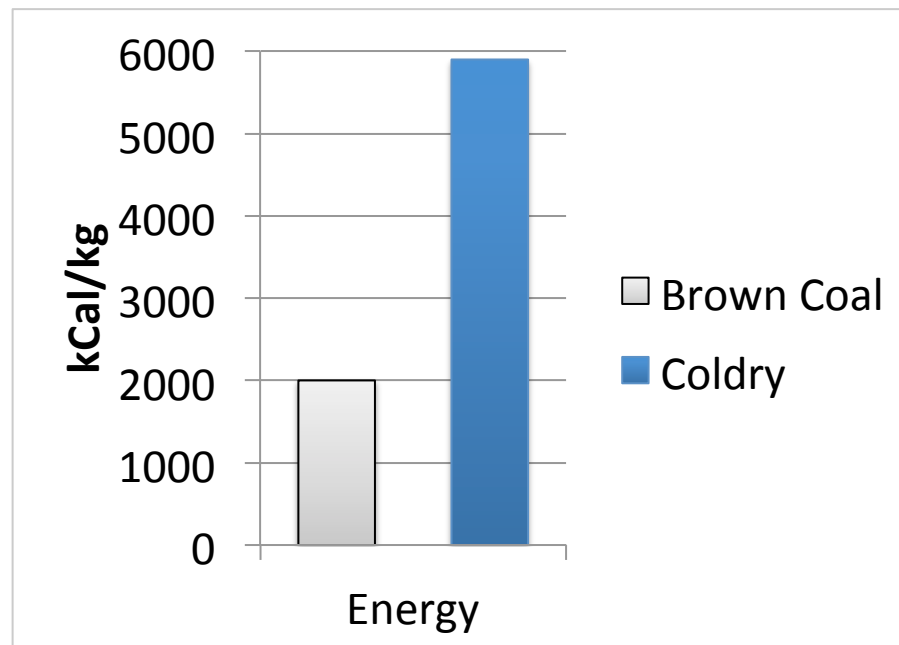
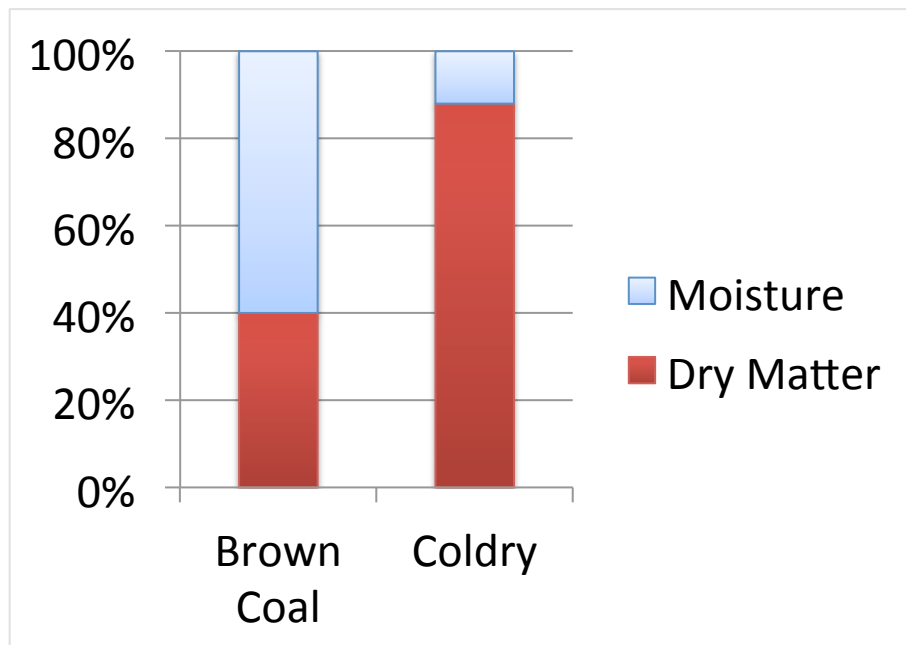


Coldry Process

- Coldry Technology is a simple, mechanical process that stimulates a **natural** chemical reaction within brown coal
- Reaction polymerises active sites in the coal compounds, expelling **chemically** bound water
- Processing and Polymerisation collapses coal pore structure, expelling **physically** trapped water
- Ejected water migrates to the surface of coal pellets
- Utilising low temperature **waste heat** from host power station, the surface moisture on the Coldry pellet is evaporated



Coldry Product

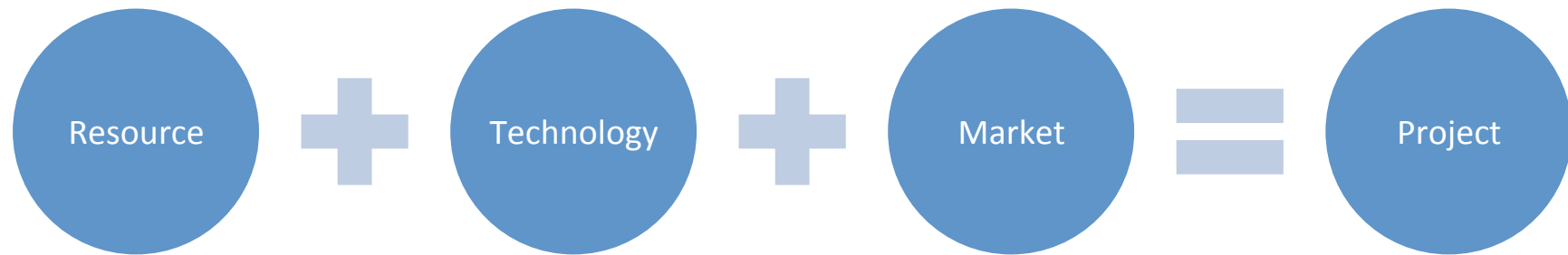


MATMOR Technology

- Unique iron making technology – replaces metallurgical coal with cheap, abundant brown coal
- Uses Coldry process to combine metal bearing media, brown coal and flux prior to smelting via patented MATMOR furnace
- Produces iron billets for secondary steel making
- Status of development – test plant (1 tonne per day)
- Next steps – scale up to pilot plant (20 tonnes per day)

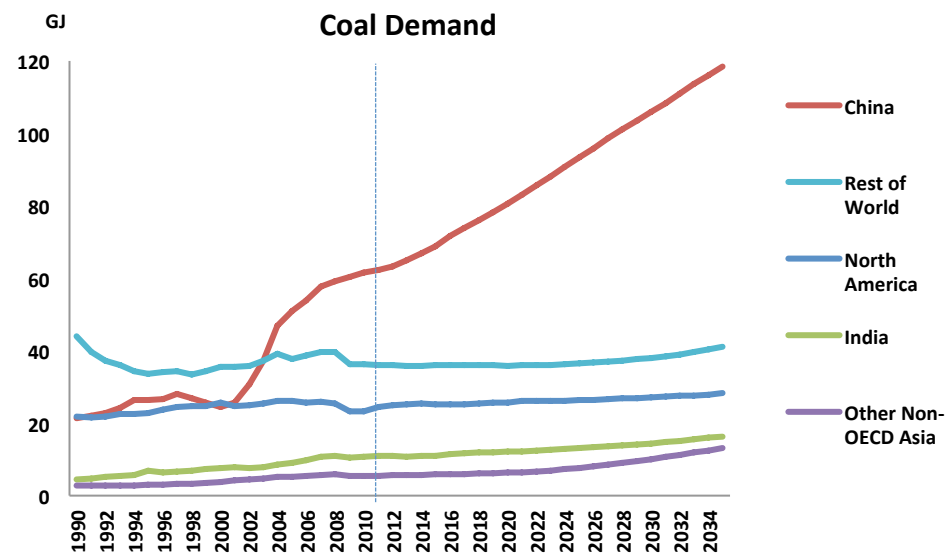
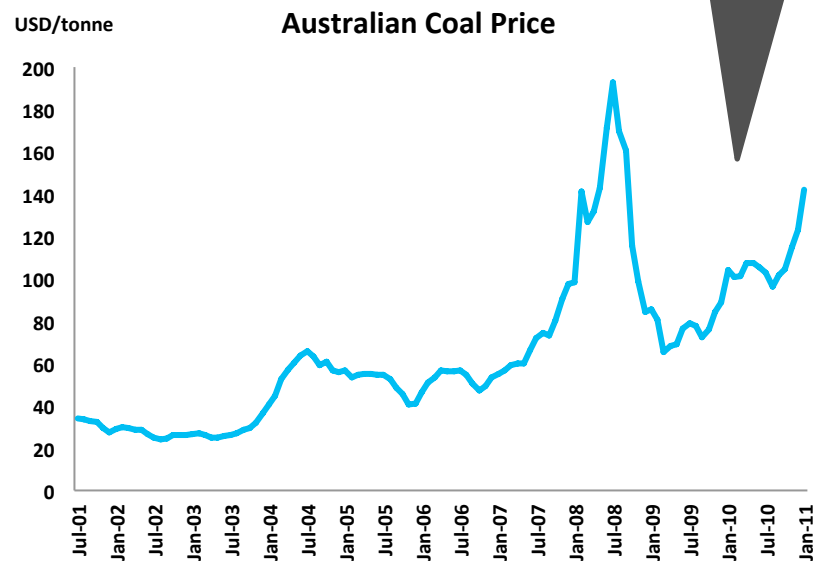


Technology leveraged energy resource project



Market

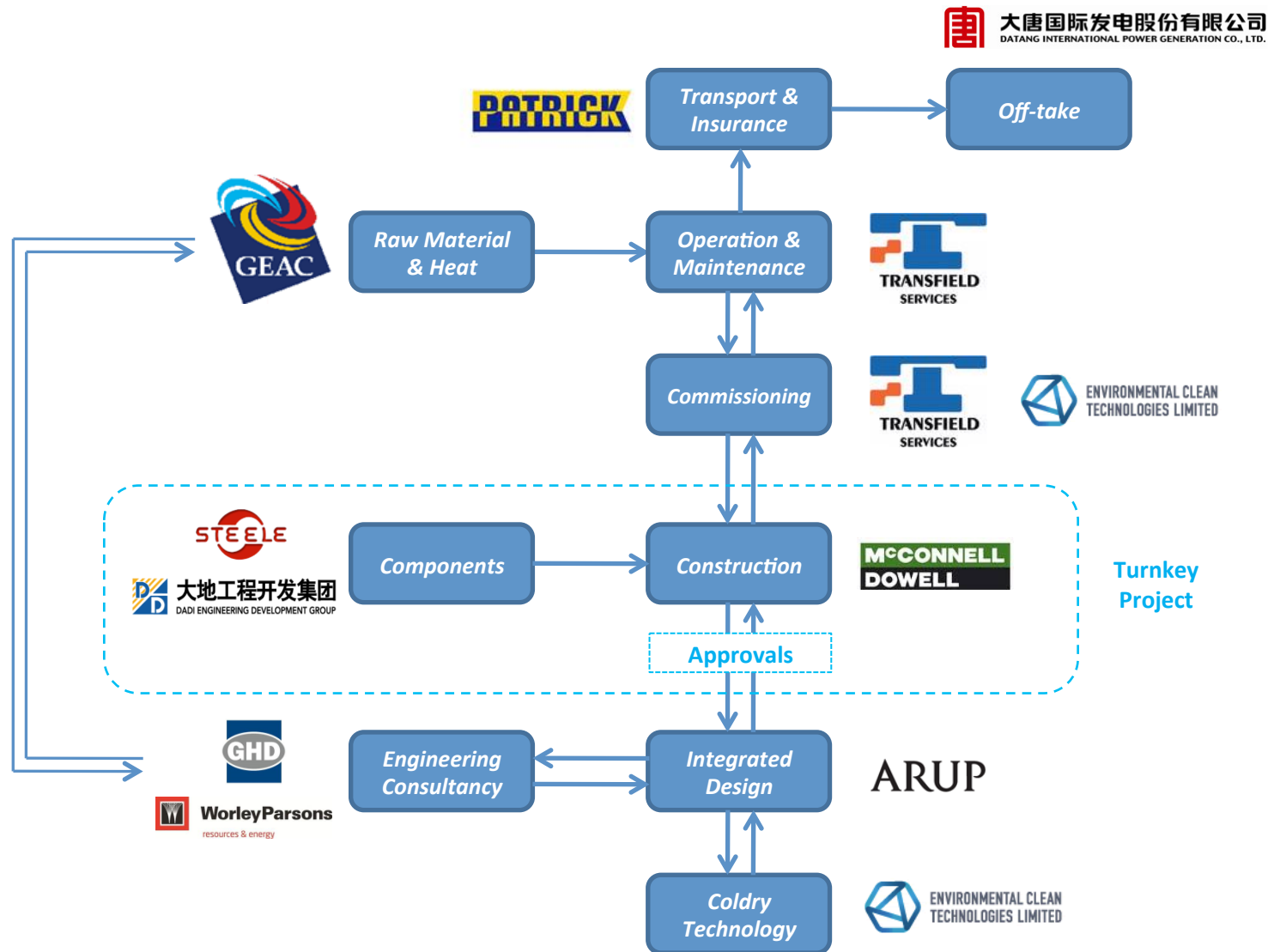
Strong prices support the positive market outlook for coal



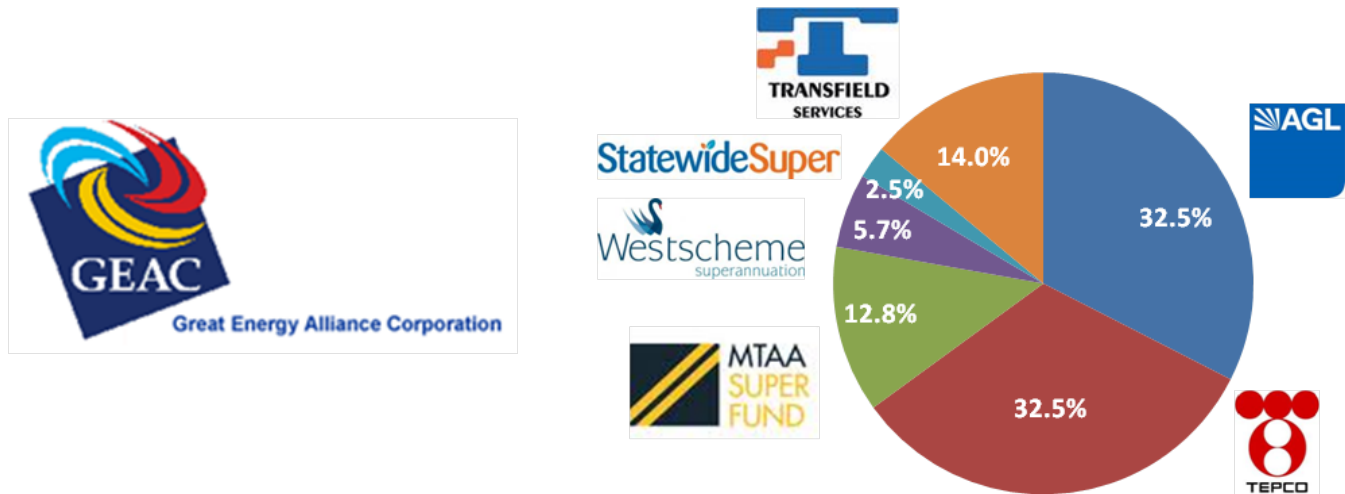
•Notes: •Australian thermal coal, 12,000 Btu/pound, < 1% sulphur, 14% ash, FOB Newcastle/Port Kembla.

•Sources: •IMF; Energy Information Administration, US Dept. of Energy.

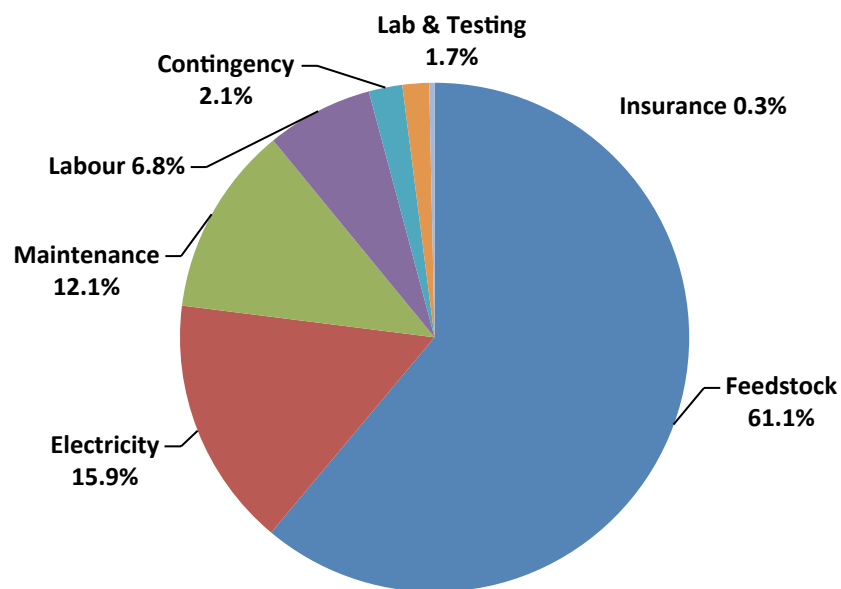
The Victorian Coldry Project



Location: Loy Yang Power Station

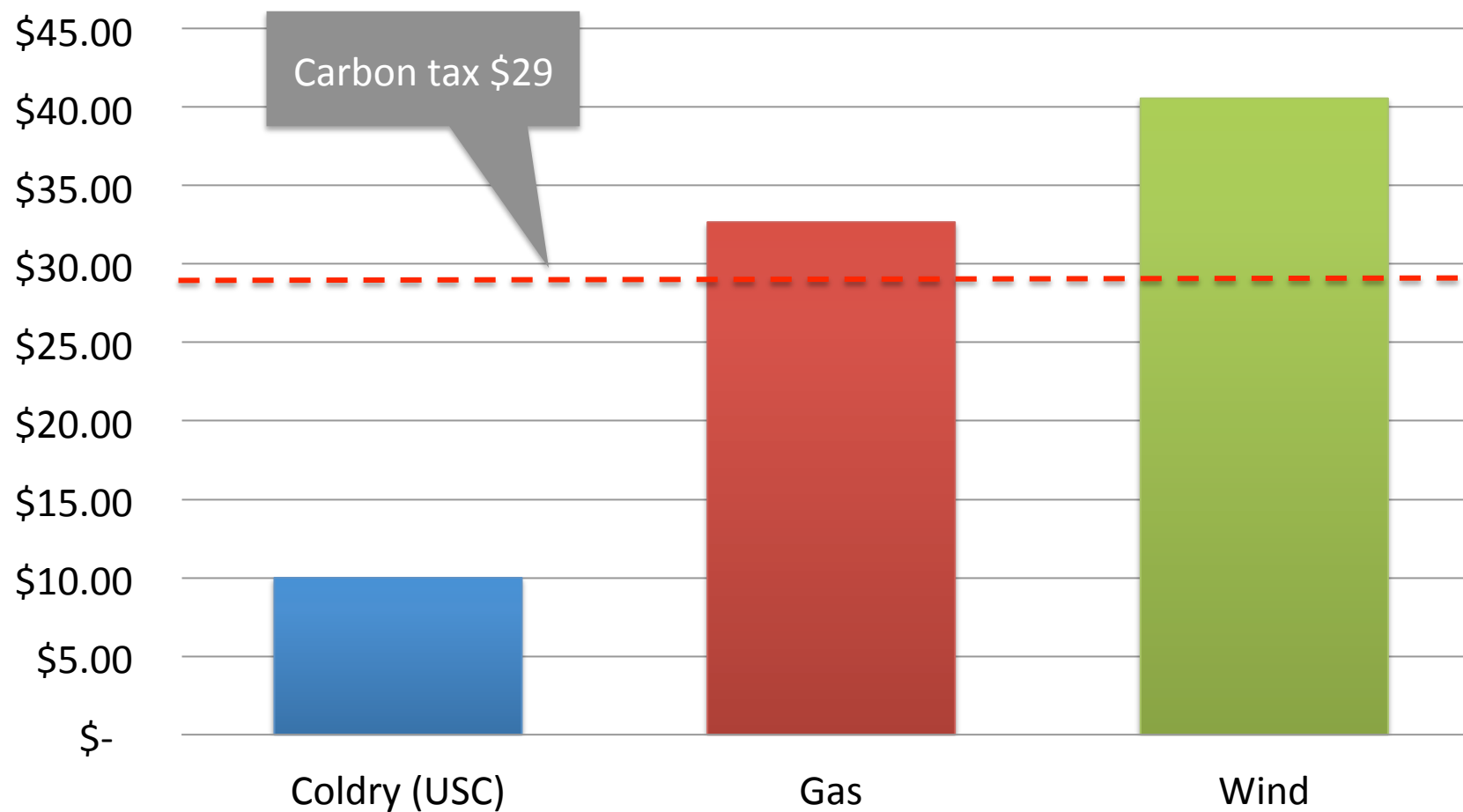


Indicative cost of production



COSTS	AUD/tonne
Electricity	\$5.56
Maintenance	\$4.70
Labour	\$1.42
Contingency	\$0.63
Lab & Testing	\$0.50
Insurance	\$0.10
Production Cost	\$12.93
Feedstock (est)	\$18.06
TOTAL Ex-Works	\$30.99
Freight	\$40.00
TOTAL COST	\$70.99
Qinhuangdao (5,500 kcal/kg) - 10%	\$117.85
ECT Margin Potential	\$46.86

Coldry: Least cost CO2 abatement for Victoria



Cost per tonne of CO2 saved – 20% reduction on current emissions by 2020

Summary

- The Company
 - Global Markets
 - Disruptive Innovations
 - Game-changing potential
 - Resource & Energy Focus
- Coldry Technology
 - Lignite Dewatering
 - Cost effective CO2 abatement solution
 - Exportable black coal equivalent
- Victorian Coldry Project
 - 2 Mtpa stage 1
 - Cost of production: \$31 per tonne
 - Site: Loy Yang Power Station, Victoria
 - Customer: China Datang

Thank you

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