Advanced Energy

Australian Mining: Advancing Australia's Energy, Economic and Environmental Goals

George Schuller Chief Operating Officer – Australia Peabody Energy





- Coal delivers vital economic benefits for Australia
- State of the industry and how Peabody is 'controlling the controllable'
- Technologies that offer a path to advancing Australia's energy, economic and environmental goals.



About Peabody Energy



- Global private-sector coal company
 - 249.8 million tons sold in 2014 from operations, trading and brokerage
 - \$6.79 billion in revenues
 - 7.55 billion tons of proven and probable reserves
- Customers on six continents
- 26 mines across U.S. and Australia
 - 19 surface mines (Australia: eight surface mines)
 - Seven underground mines (Australia: three underground mines)
- Around 3,800 employees across Queensland and New South Wales

Peabody Expanded Australian Export Platform Via Joint Ventures, Acquisitions





- The Australia platform has grown rapidly since 2002
- Acquired Macarthur Coal, largest purchase in 132-year history
- Diverse mix of met/thermal coal
- Competitive advantage with mines close to ports; ports near high-growth regions
- Ideally located to meet Asian demand
- Largest seaborne low-vol PCI supplier

Peabody's Global Platform Serves Customers on Six Continents



Peabody Operates 26 Mines Across Australia and the United States



Reported 2014 sales volumes. Reserves based on 2014 10-K filing. Total sales and reserves variances are based on rounding calculations. Green shading 5 indicates countries served by Peabody.

Coal Integral to Australia's Economic Development



Australia holds world's fourth-largest share of proven coal reserves

- Over the last five years, coal exports have added, on average, \$44 billion a year to Australia's national income
- Coal benefits all Australians by providing affordable energy and through contribution to exports, wages, investment and tax and royalties revenue
- Australian Prime Minister Hon. Tony Abbott MP: "Coal is good for humanity, coal is good for prosperity, coal is an essential part of our economic future, here in Australia, and right around the world."

Sources: Minerals Council of Australia, The Sydney Morning Herald and ABC News The Prime Minister's official opening of BMA's Caval Ridge

Challenges Facing the Industry in Australia

- Slowing global GDP
- Weaker import demands
- Until recently, abundant supply growth
- Longer lower trough than expected
- Lengthy permitting and environmental delays
- Labour agreements
- Port and rail
- Growing activism







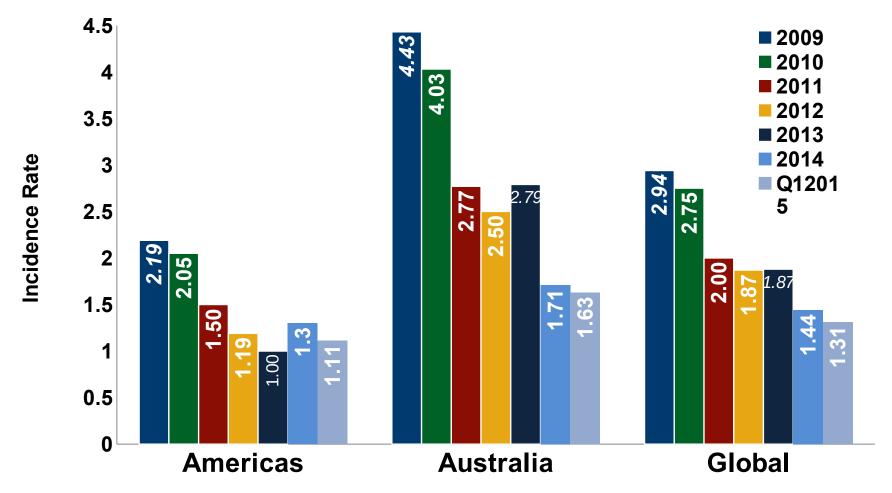
BTU is managing challenging market conditions by:

- Driving operational excellence with continuous improvements in safety, productivity, costs and sustainable mining practices
- Exercising continued capital discipline and maintaining adequate cash and liquidity
- Building upon cost reductions and Australia's competitive advantage
- Actively managing Peabody's portfolio of assets
- Increasing global understanding of coal mining and use by advancing awareness and advocacy.

Peabody Focused on Continuous Improvement in Safety Performance



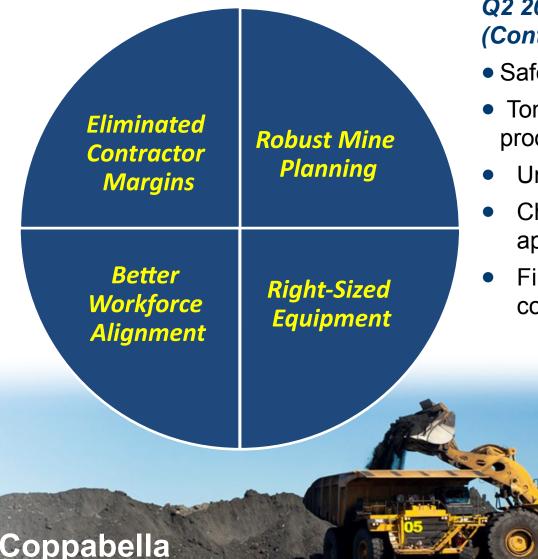
2015 Global Incidence Rate Q1 of 1.31



Lower Cost: Owner Operator Conversion Drives Costs Down, Performance Up



Safety, Productivity & Cost Improvements Evident And Sustained



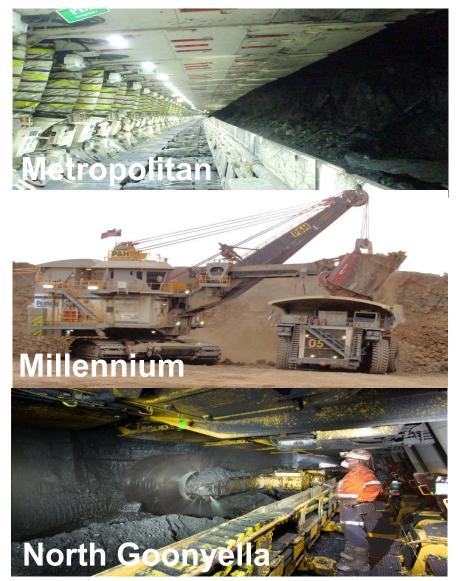
Q2 2012-Q1 2013 Actuals (Contractor) vs 2014 Actuals (OO):

- Safety improved +30%
- Tons produced exceeded contractor production by +19%
- Unit costs trend 34% lower
- Changing mindsets: One Peabody approach
- Final OO transition at Moorvale completed second half of 2014

Right Sized Equipment Delivers Productivity Gains



Investing in Productivity Improvements



Metropolitan

- New longwall installed Q2 2014 operating at 2,500 tonnes per hour
- Delivers 12% increase in annual production

Millennium

- Electric Rope Shovel delivers > 20 million BCMs per year
- Key driver of a 50% increase in coal production since 2012

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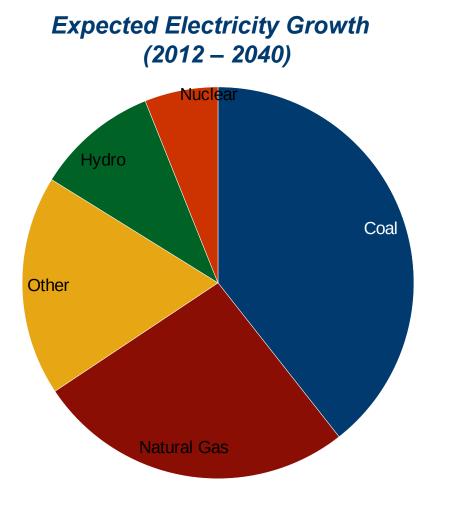
- Longwall Top Coal Caving (LTCC) technology installed during Q4 2013
- Increases coal recovery by ~ 500 tonne per metre compared to conventional Longwall mining

Longwall Top Coal Caving At NGC





Coal: The World's Fastest Growing Major Fuel

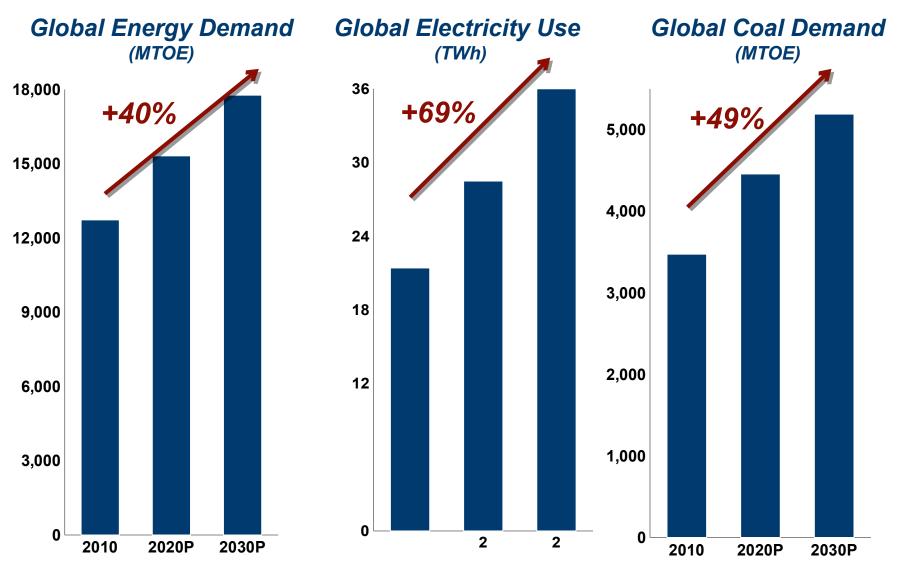


- Coal is the world's fastest growing major fuel this century
- More than 75 million people to be added to cities each year through 2020 driving greater energy and infrastructure needs
- Coal least expensive and most reliable form of electricity generation to meet rising demand

Source: Peabody Energy Analytics; BP Statistical Review of World Energy 2014; International Energy Agency (IEA), 2014 World Energy Outlook Current Policies 3 Scenario.

Expanding Global Energy Needs Lead to Rising Coal Demand





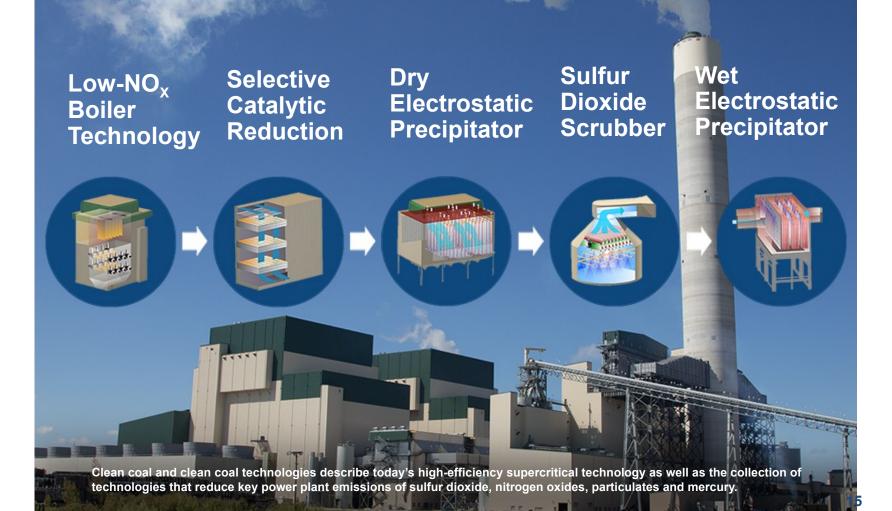
Source: International Energy Agency (IEA), 2014 World Energy Outlook (Current Policies Scenario). Energy and coal demand in Million Tonnes of Oil Equivalent (MTOE). Electricity use in terawatt-hours (TWh).

Clean Coal Technologies In Broad Use Around the World



Today's Technologies Deliver Major Environmental Improvement

Supercritical Power with Advanced Emission Controls



We Can Use More Coal And Significantly Reduce Emissions



- We could achieve CO₂ emissions reduction of up to 25% today if Australia's current coal fleet were replaced with ultra-supercritical technology, available
- State-of-the-art rate is 45% and 'off-the-shelf' rates are currently at 40%.
- Increasing the efficiency of coal-fuelled generation by one percentage point reduces CO2 emissions by between 2-3%.
- Large body of research into CCS and other technologies also underway in Australia but no clear policy framework to streamline efforts or incentivise clean coal technologies

Coal: Least Expensive and Most Reliable Form of Electricity Generation



	Coal	Oil	Natural Gas	Nuclear	Solar/ Wind
Low Cost		0		٠	0
Baseload Capacity		0			0
Safe to Transport				0	
Energy Dense					0
Widely Available			•	0	٠
Technology Based					

Coal:

- Only a fraction of other fuels' costs
- Provides baseload power
- Easily transported
- Energy-dense, abundant and increasingly uses advanced technologies

Global Leaders Turn to Coal for Security, Economics, Availability



Coal to Pass Oil as World's Largest Energy Source in Coming Years

Germany In process of adding 5.5 GW of coal-fuelled generation China Uses technology to reduce emissions and increase coal use

India PM Modi pledges to make electricity available to every household by 2022

Japan Supports development of advanced coalfuelled generation

Africa World Bank says coal essential in helping Africa meet power demand

Australia Repeals carbon tax in major policy reversal



QUESTIONS?





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