Future of Coal Mining
In the Illawarra

Brad Elvy  Illawarra Coal
27th June 2012
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A coal region free of fatalities

1970 – 1979
68 people

1980 – 1989
25 people

1990 – 1999
10 people

20th December 2000
1 person

1st decade with No fatalities
Illawarra Coal

- Resources 1.2 billion tonnes
- Three mines
- Operate in two seams
- 300-620 metres deep
- High gas contents in the Bulli Seam
- Igneous intrusions
- Faults
- 7Mt clean metallurgical coal produced in FY11
- 10Mt ROM production for FY12
Dendrobium Mine

$\text{CH}_4 : \text{CO}_2$ Composition Ratio
Appin and West Cliff Mines

Gas Content

Future of Coal Mining in the Illawarra - June 2012
CAMGAP – Capture As Much Gas As Possible

- Consists of many sub-projects
- Execution of existing projects
- Modelling and measurement
- Improving and embedding
- Planning for the future
- Developing new and enabling technologies

Emerging Technologies:
- TRD SIS
- TRD SIS - Lower seams
- TRD upper Strata
- Nitrogen Injection
- Water Jet Drilling
- Pressure balance drilling
- Large Diameter Drilling

Enabling Technologies:
- MWD Measure while drilling
- Inseam wireless drilling communications
- Super loggers
- Fibre optic gas flow monitoring

Key Metrics:
- PDCE
- HPGCE
- MAD
- GHGE

3 Heading Gateroads

Longwall panel widths

Gas Reservoir understanding and modelling

Real time monitoring of gas drainage quantities and compositions

Model Measure Plan

Emerging Technologies

Enabling Technologies
CAMGAP
A Ventilation and Gas Strategy Project

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DIRECT RELATIONSHIP WITH OUTBURST MANAGEMENT

MODEL MEASURE PLAN

- Gas Reservoir understanding and modelling
- Real time monitoring of gas drainage flow quantities and compositions
- Key Metrics PDCE – HPGCE – MAD - GHGE
- 3 Heading Gateroads
- Longwall panel widths

EMERGING TECHNOLOGIES

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ENABLELING TECHNOLOGIES

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DIRECT RELATIONSHIP WITH OUTBURST MANAGEMENT
Outburst Mining

• Remote cutting

• Remote shuttle car flighting of coal.

• Remote development
  – Completely automated development process.