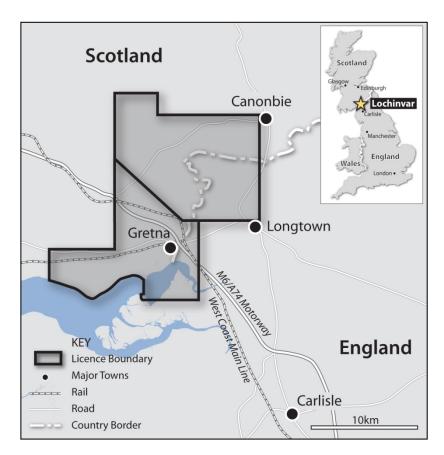


## **Investment Highlights**

NAE owns 100% of Lochinvar, a low cost coking coal project, ideally located to supply UK and European steel mills with immediate access to existing rail and port infrastructure

Strong Economics <sup>1</sup>	<b>NPV<sub>9</sub> US\$263 M</b> IRR 20%
Low Opex <sup>2</sup>	US\$70/t 1 <sup>st</sup> Quartile
High Margin <sup>3</sup>	US\$73/t
Strong Cash Flow <sup>3</sup>	US\$75 M pa
Capex <sup>4</sup>	US\$284 M
Clean Coal Production	1.4 Mtpa
Long Life	26 Years
Product	Low Ash HV Coking Coal



Real after tax, unleveraged 1 Jan 2015 basis

<sup>.</sup> Opex is all-inclusive cost including royalties, G&A and equipment leasing cost

<sup>3.</sup> Based on an average realised price of US\$143/t

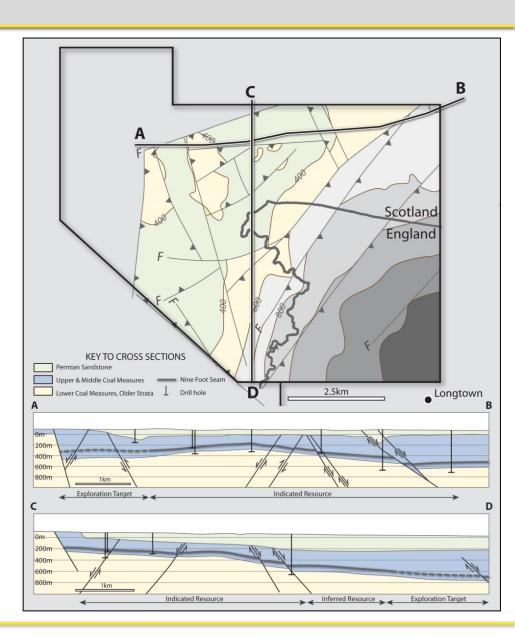
Capex excludes leased mobile equipment and pre-construction cost

## Geology

# Recently completed drilling confirms the potential of Lochinvar coal to underpin a long life, high margin project

- Scoping Study based on mining Nine Foot Seam only
- Nine Foot Seam average 2.2m thickness
- Mining planned between 210m and 1,000m depth
- Seam dips suitable for longwall mining
- Relatively complex structure





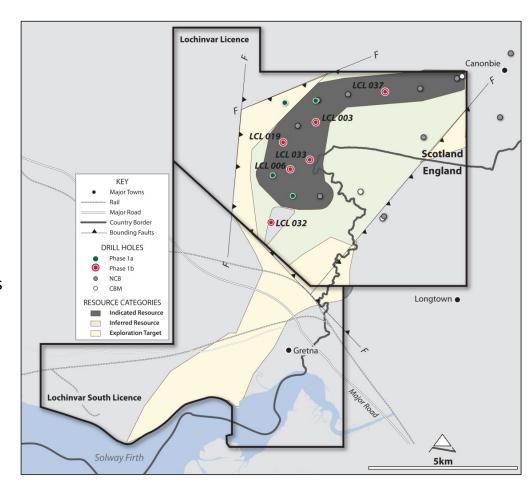
## **Resources – Building the Inventory**

Since grant of the Lochinvar Licence in June 2012, NAE has moved quickly to define a maiden Inferred Resource in Oct 2013 and then an Indicated Resource in August 2014

Lochinvar Resource Summary <sup>1</sup>	
(August 2014)	

Coal Seam	Indicated Inferred Resource (Mt) (Mt)		Total Resource (Mt)	
Nine Foot	37	49	86	
Six Foot	13	13	26	
Total	49	62	111	

- Based on 10 NAE holes and 9 historic NCB holes
- Over 100km historic seismic lines for structure
- Resource constrained to 1,000m maximum depth and 1.2m minimum seam thickness
- Potential to increase resource by drilling of Exploration Target (31–64 Mt) to the south and west of the resource



## **Scoping Study - Outline**

### **Project Outline**

### Mining

- Modern underground longwall mine
- Development via 3 continuous miners
- Single drift access at 1:8 gradient
- Ventilation shaft
- Pre-mining gas drainage

### **Coal Processing**

- Mine conveyor to ROM stockpile near drift portal
- Coal processing plant fed by FEL from ROM stockpile
- Conveyed to product stockpile adjacent to rail siding
- Reject dewatered and trucked via private road to nearby reject storage facility contoured to landscape
- Water treatment and disposal to Solway Firth

### Infrastructure

- Short rail spur from existing rail to product stockpile
- Trains loaded with front-end loader (FEL)
- Rail to UK steel mills and Hunterston / Blyth ports

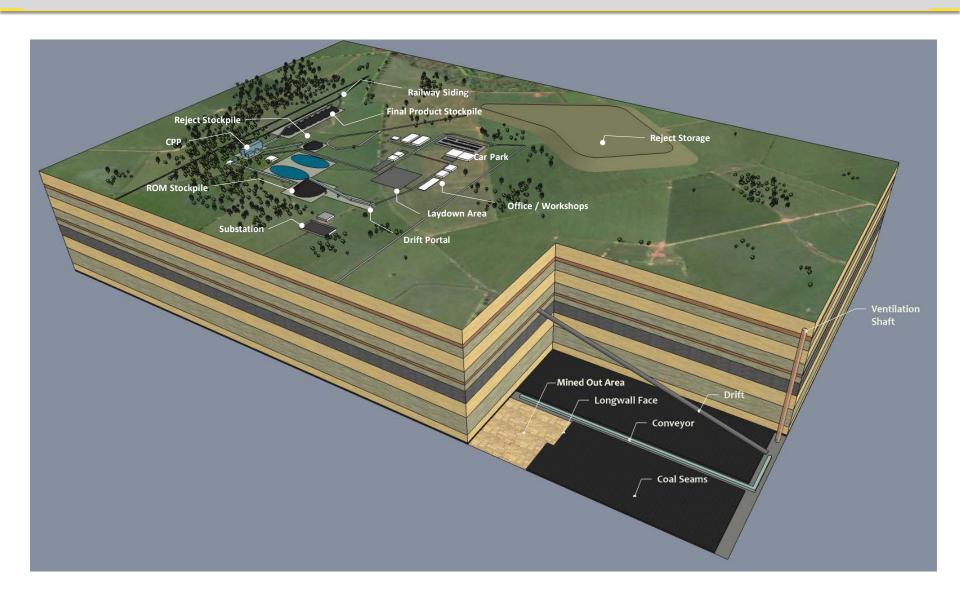
### **Employment**

Approximately 270 employees at operational peak

### **Leading Consultants in Specialist Areas**

Section	Consultant	Scope of Work
Lead Technical Consultant	palaris₹	<ul> <li>Resource estimate</li> <li>Mine design</li> <li>Capex &amp; opex estimates</li> <li>Project management, study coordination</li> <li>Financial evaluation</li> </ul>
Geotechnical Engineering	SCT	<ul><li>Geotechnical assessment</li><li>Mine design parameters</li></ul>
Coal Processing	QCC Resources	<ul><li>Coal product specification</li><li>Coal handling &amp; processing design</li><li>Capex / opex estimate</li></ul>
Environment and Approvals	Dalgleish Associates (Scotland)	<ul> <li>Environment and community assessment / review</li> <li>Rejects and water treatment and disposal</li> <li>Hydrogeology</li> <li>Planning and approvals process</li> </ul>
Rail Access and Loading	Deltix Consulting	<ul> <li>Connection with existing rail network</li> <li>Rail siding design</li> <li>Capex and opex estimate</li> </ul>
Rail and Port Logistics	Adam Chartering	<ul> <li>Review and selection of port options</li> <li>Rail, port and sea freight cost estimates</li> </ul>
Mining Review	Xstract Mining Consultants	<ul><li>Peer review of mining assumptions</li><li>Peer review of capex and opex estimate</li></ul>

## **Mine and Infrastructure Layout**



## Mining

### **Mining Parameters**

**ROM** (Run of Mine)

Life of Mine: 47.3 Mt

Average Production: 1.9 Mtpa

### **Access & Ventilation**

- Drift: 1 in 8 gradient, 1,700m x 6m, TBM dug, roof supported conveyor
- Men and materials vehicular access via drift
- Ventilation: 5m vertical shaft

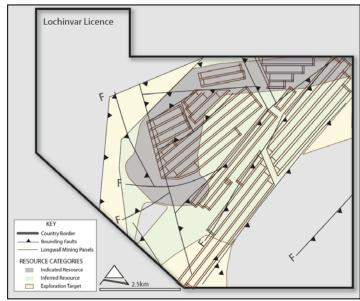
### **Development**

- 3 x continuous miner/bolters
- 2.0m minimum height

### **Longwall Production**

- Single bi-directional longwall shearer
- 200m panel width, reduced to 140m in areas of structural complexity
- Average seam thickness in longwall panels of 2.4m (1.6 to 3.2m)
- 1.8m to 3.6m shearer cutting height range

### **Preliminary Mine Layout**



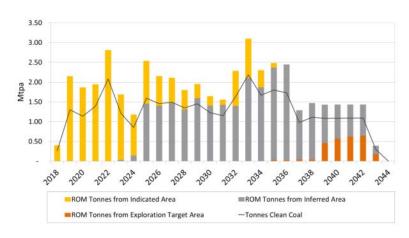


## **Production**

### **Production Assumptions**

- All longwall moves included in schedule
- Productivity de-rated for:
  - Seam height
  - Depth
  - Geological structure
  - Roof and floor conditions
  - Gas management
  - Mechanical availability
- Palaris productivity estimates based on experience and database, independently checked by experienced UK mining engineer
- Productivity estimates well within internationally demonstrated and documented benchmarks
- 38% of LOM production from Indicated Resource, 56% from Inferred Resource and 6% from Exploration Target
- First 7 years mining 100% in Indicated Resource, Years 8-11 mining in Indicated and Inferred Resource, Years 12 onwards mining primarily in Inferred Resource
- Payback (4.9 years) delivered by the Indicated Resource

### **Production Schedule**





## **Coal Processing**

**High Yield** 

**71%** <sup>1</sup>
Average ROM to Clean Coal

**Clean Coal** 

Life of Mine: 33.7 Mt

Average Production: 1.4 Mtpa

### **Coal Processing**

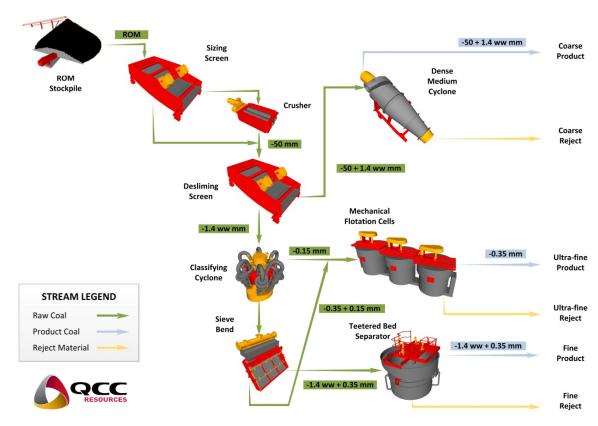
- 60 kt capacity ROM stockpile fed by mine conveyor, front end loader feeds crusher
- 400 t/h wash plant to handle up to 2.5 Mtpa, upgraded later in mine life
- Wash plant flowsheet single stage dense media cyclones, teetered bed separator, flotation circuits

### **Train Loading**

• Train loaded by front end loaders

### **Reject Management**

 Fine rejects thickened, belt press filtered and co-disposed with coarse rejects via truck (<2km)</li>



## Infrastructure

## Simple and low cost development due to excellent transport and other infrastructure in place. Minimal development impact on primarily agricultural land



### **Access to Existing Rail Network**

- WCML currently used for coal haulage
- Capacity confirmed by independent rail study and Network Rail
- Multiple bulk rail freight operators with locomotives and rolling stock available

### **Siding & Loadout**

- Siding from WCML to product stockpile at mine
- Loading with front-end loaders

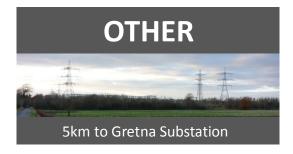


### Hunterston

- 190km via rail
- Existing shiploading facilities
- Draft 19.8m Panamax

### Blyth

- 120km via rail
- Import/export mixed materials
- Draft 9.5m Handysize
- Would install discharge facilities for long term contract



### **Power**

 Access to existing substation 5km from proposed mine infrastructure area

### Water

- Potable water supply in place
- Mine water treatment and discharge to Solway

### Workforce

- Numerous nearby towns with skilled personnel
- No staff live-in requirements

## **Coal Quality and Pricing**

## Lochinvar has high value in use vs competing coals supplying UK and European steel mills. Exceptionally low ash product

Product	Inherent Moisture (%)	I Ash	Volatile Matter (%)	Total Sulphur (%)	P (%)	CSN	CSR	Ro. Max	Max Fluidity	Source
Lochinvar Indicative Specification	3.0	5.0	34.0	1.2 - 1.4	0.007	7.0	50 <sup>1</sup>	0.84	100-11,000	
US Hampton Roads High Vol A CC	2.0	<9	31 – 34	<1.2	NA	8 – 9	>50	1.0 - 1.1	27,000-30,000	Argus 2014
US Hampton Roads High Vol B CC	2.0	<9	34 – 37	0.9 – 1.3	NA	7 – 9	45 – 54	0.85 - 1.0	20,000-27,000	Argus 2014
Queensland High Vol CC <sup>2</sup>	2.0	6.5 - 6.8	33.0 – 34.5	0.6 - 0.7	0.03	8.5 – 9.0	60	NA	6,500-7,500	ACARP 2010
Queensland Semi Hard CC <sup>3</sup>	1.5 – 2.0	8.0	24.0 – 27.5	0.4 - 0.5	0.05 - 0.06	6 – 7	35 - 50	NA	300 - 600	ACARP 2010

### Value in Use

- Lochinvar indicative coal quality vs competing coals:
  - Very Low Ash & Phosphorous
  - Comparable VM, CSN, CSR (Predicted) & Fixed Carbon
  - Fluidity has wide range in results as effected by lab media
  - High S but within UK / Europe blend limits. Potential to reduce to 1.2% based on coal processing modelling

### **Pricing**

- Lochinvar expected to be priced at 87% of HCC Benchmark
  - Competes with US High Vol CC's imported into UK/Europe
  - Lochinvar price assumed in-between US Hampton Roads HV A
     CC and HV B FOB prices
  - Freight benefit based on difference between US and Lochinvar coals delivered into UK / Europe

### **Realised Price**



Predicted CSR

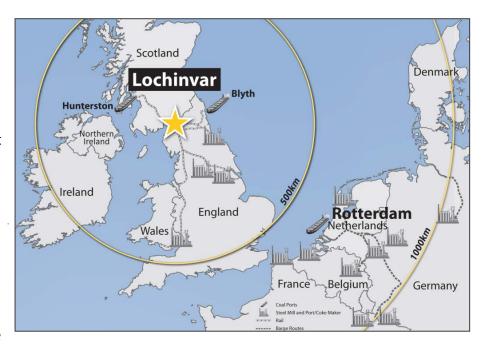
<sup>2.</sup> Based on Gregory and Kestral Projects

Based on Blackwater and Poitrel Projects

## **Market for Lochinvar Coal**

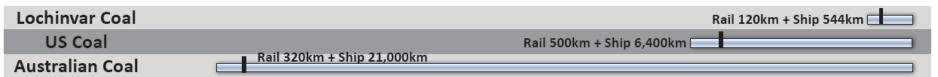
### **Unique Market Benefits**

- Lochinvar average annual production of 1.4Mtpa <5% total UK/Europe coking coal imports
  - UK (2013) imported 6.2Mt<sup>1</sup> of coking coal for 11.9Mt of steel
  - Europe (2013) imported 21.6Mt<sup>1</sup> of coking coal for 85.9Mt of steel
- Lochinvar coal enjoys a clear distance and freight cost advantage over competing imported coal
- Regular deliveries from local supplier reducing customer inventory
- The only indigenous supply to the UK steel mills
- Opportunity to become a project of national importance



### **Benefits of Location**

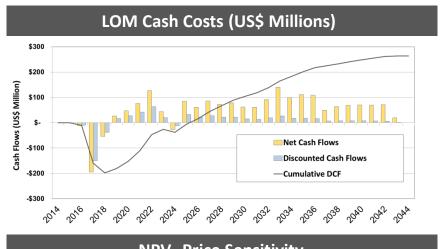
### TRAVEL DISTANCE TO ROTTERDAM

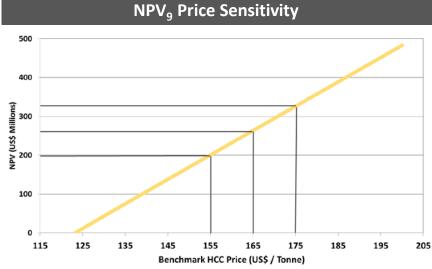


## **Project Economics**

Lochinvar delivers excellent returns on investment in a low risk country with lowest quartile operating costs and a low construction cost

Valuation Summary				
Production	Life-of-Mine (LOM) ROM	Mt	47	
	LOM Saleable Coal	Mt	34	
	Life of Mine	Years	26	
	Annual Ave. ROM	Mt	1.9	
	Annual Ave. Saleable Coal	Mt	1.4	
Revenue <sup>1</sup>	Benchmark HCC Price	US\$/t	165	
	Ave. Realised Price	US\$/t	143	
	Average Discount to HCC	%	13.3	
<b>Operating Costs</b>	Unit Operating Cost	US\$/t	70	
Capital Costs	Construction Capital	US\$ M	284	
	LOM Capital	US\$ M	593	
Cash	Annual Cash	US\$ M pa	75	
	Operating Margin	US\$/t	73	
Valuation <sup>23</sup>	NPV (@9%)	US\$ M	263	
	IRR	%	20	
	Payback (undiscounted)	Years	4.9	





Revenue price based on NAE assumptions

<sup>.</sup> Real after tax, unleveraged 1 Jan 2015 basis

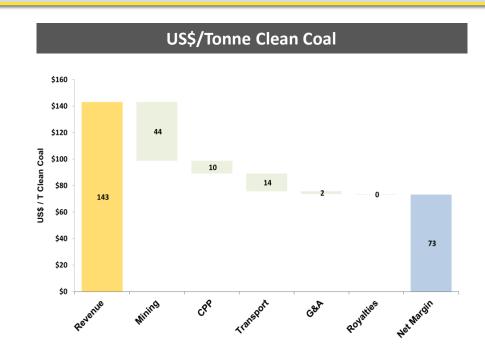
Valuation assumes 38% Indicated, 56% Inferred and 6% Exploration Target of LOM ROM Payback period fully based on Indicated Resources

## **Operating Costs**

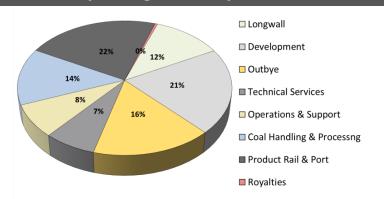
### **Operating Costs - Low Cost / High Margin**

Cost Area	US\$/t ROM	US\$/t Clean Coal
Development	5.8	8.1
Longwall	10.2	14.4
Outbye	8.1	11.4
Technical Support	3.5	4.9
Operations Support	3.9	5.5
ROM Cash Costs	31.6	44.4
Coal Handling & Processing	6.8	9.6
FOR Cash Cost	38.4	54.0
Transport & Handling	9.4	13.3
Corporate & Marketing	1.6	2.3
Royalties	0.2	0.3
FOB Cash Costs	49.7	69.8

- Low cost structure as a result of:
  - Low labour costs
  - Low royalties
  - Low transport cost to all target markets
- Includes leasing cost for mobile equipment (US\$3.90/t clean coal)
- High margin of US\$73/t clean coal







## **Capital Costs**

### Capital Costs – Low development capital

Category	Capital Estimate (US\$ M)
Drift and Shafts	50.7
Development Units	41.2
Underground Infrastructure	37.6
Capitalised Development	14.9
Total Underground Development	144.4
Surface Facilities	43.2
Coal Handling and Preparation	23.5
Rail Spur	18.8
Total Surface Development	85.5
Owner Cost and Land Acquisition	22.7
Contingency (@13%)	31.5
Total Construction Capital	284.0

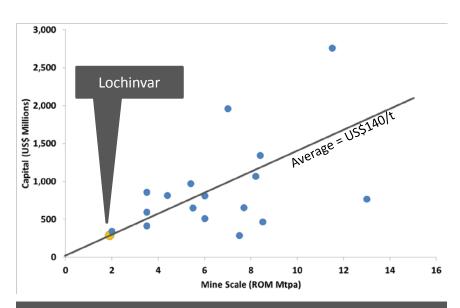
### **Assumptions**

- Estimate in source currency (GBP, USD, EUR & AUD)
- Excludes pre-construction costs
- Excludes leased mobile equipment (US\$31.5M)
- Replacement / sustaining capex included in cashflow

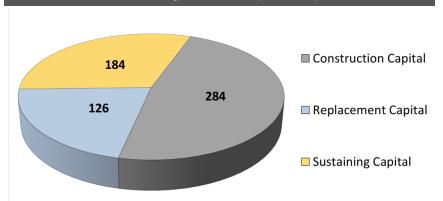
### **Benefits**

• Low labour costs, readily available supplies, services, skills and other infrastructure during construction

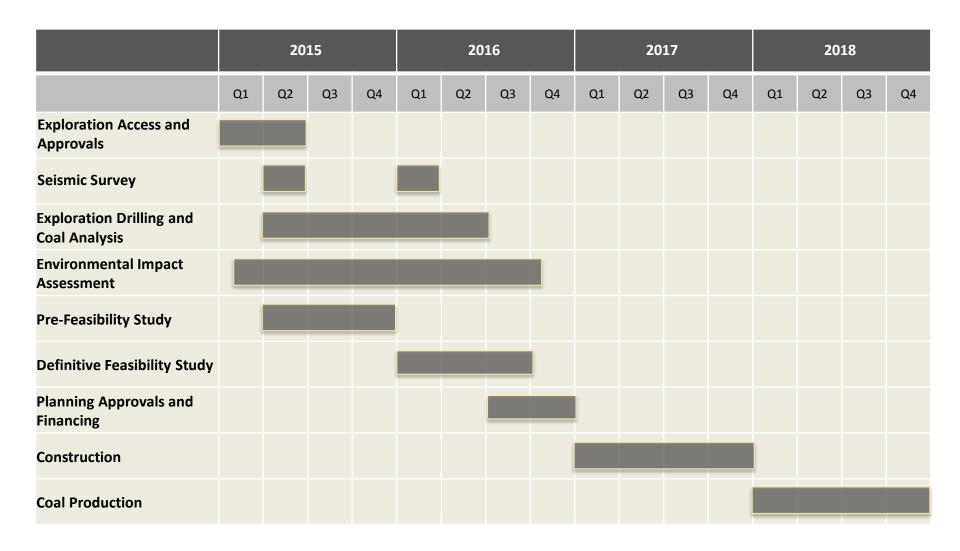
### Capital Intensity – Recent peer coal projects<sup>1</sup>



### **LOM Capital Costs (US\$ M)**



## **Indicative Schedule**



## **Summary**

Low Cost	<ul> <li>Bottom of cost curve</li> <li>Low UK royalties, labour costs and taxes</li> <li>Short rail distance to UK customers and export ports</li> </ul>
Adjacent to Infrastructure	<ul> <li>7km to existing rail network</li> <li>Available rail and port capacity – take or pay contracts not required</li> </ul>
Large Local Market	<ul> <li>26.8Mt of imported coking coal into UK and Europe in 2013</li> <li>Lochinvar targeting only 5% of this market</li> <li>Working capital benefits to customers</li> </ul>
Robust Economics	<ul> <li>NPV<sub>9</sub> of US\$263M &amp; 20% IRR at US\$165/t HCC benchmark price</li> <li>Investment in a low risk country</li> <li>High operating margin of US\$73/t</li> </ul>
Coking Coal Price Upside	<ul> <li>Offers investors a low cost option to upside in coking coal price recovery, now at a cyclical lows</li> <li>Limited exposure to potential increases in sea freight rates</li> </ul>

## **Board and Company Summary**

ASX Code: NAE

Share Price: A\$0.015 (23 October 2014)

Ordinary Shares: 313.3m

Market Cap. : A\$4.7m

Options: 22.9m (exercise price mostly

≥ A\$0.10)

Cash: A\$2.4m (30 June 2014)

Shareholders: Resource Capital Funds 31%

Chee Siew Yaw 11%

Geared Investments 4%

Projects: Lochinvar Coking Coal (UK)

Redmoor Tin Tungsten (UK)

Terranova Coking Coal (Colombia)



### **Gary Fietz** - Managing Director

Geologist with 25+ years experience in exploration, business development and project evaluation. Previously VP Iron Ore Business Development with BHP Billiton.



### Alan Broome AM - Chairman

Metallurgist with 40+ years in mining with major and junior companies. In depth experience in coal mining, processing, services and technology in Australia and internationally.



### **Gavan Rice** – Non Exec Director

Practising barrister of the Supreme Court of Victoria for the past 25 years with considerable previous experience as a director of ASX listed companies.



### Mike Amundsen - Non Exec Director

Corporate advisor with 30+ years experience in resources with BHP Billiton (business development, coal marketing, finance) and as Managing Director of FerrAus Ltd.



## **Jon Reynolds** – Bus. Dev. Manager

Geologist and business development professional with 25+ years industry experience including mining, mergers and acquisitions and consulting.

## Disclaimer

#### **Competent Persons Statement - Lochinvar**

**Resources**: The Resources estimate is based on information compiled by Dr John Bamberry, who is a Member of the Australasian Institute of Geoscientists (Member No. 4090). Dr Bamberry is General Manager of Geological Services of Palaris. He has sufficient experience relevant to the style of mineralisation and type of deposit under consideration and to the activity he is undertaking to qualify as a Competent Person, as defined in the 2012 Edition of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves. Dr Bamberry has over 25 years' experience in exploration and mining of coal deposits.

**Exploration Target:** The potential quantity and quality of the exploration targets identified in this presentation are conceptual in nature, and there has been insufficient exploration to date to define a mineral resource in accordance with the Australian Code for Reporting of Mineral Resources and Ore Reserves published by the Joint Ore Reserve Committee ("JORC Code"). Furthermore, it is uncertain if further exploration at its exploration targets will result in the determination of a mineral resource.

#### **Cautionary Notes:**

There is a low level of geological confidence associated with inferred mineral resources and there is no certainty that further exploration work will result in the determination of Indicated Resources or that the production target itself will be realised.

The potential quantity and grade of an exploration target is conceptual in nature, there has been insufficient exploration to determine a mineral resource and there is no certainty that further exploration work will result in the determination of mineral resources or that the production target itself will be realised.

Scoping Study Results The information in this ASX Announcement relating to the Scoping Study Results of the Company's Lochinvar Coal Project is extracted from the ASX Release entitled "SCOPING STUDY CONFIRMS ROBUST ECONOMICS, LOW COSTS AND LONG LIFE FOR LOCHINVAR COKING COAL PROJECT" announced on 27 October 2014 and is available to view on the ASX website (ASX:NAE), and the Company's website. The Company confirms that it is not aware of any new information or data that materially affects the information included in the original market announcement and, that all material assumptions and technical parameters underpinning the Scoping Study results in the relevant market announcement continue to apply and have not materially changed. The Company confirms that the form and context in which the Competent Person's findings are presented have not been materially modified from the original market announcement.

Mineral Resource The information in this ASX Announcement relating to the Mineral Resource estimate on the Company's Lochinvar Coal Project is extracted from the ASX Release entitled "LOCHINVAR RESOURCE UPGRADE AND PRODUCT QUALITY" announced on 29 August 2014 and is available to view on the ASX website (ASX:NAE), and the Company's website. The Company confirms that it is not aware of any new information or data that materially affects the information included in the original market announcement and, that all material assumptions and technical parameters underpinning the resource estimates in the relevant market announcement continue to apply and have not materially changed. The Company confirms that the form and context in which the Competent Person's findings are presented have not been materially modified from the original market announcement.

### **Forward Looking Statements**

This report contains "forward-looking information" that is based on the Company's expectations, estimates and forecasts as of the date on which the statements were made. This forward-looking information includes, among other things, statements with respect to the Company's business strategy, plans, objectives, performance, outlook, growth, cash flow, earnings per share and shareholder value, projections, targets and expectations, mineral reserves and resources, results of exploration and related expenses, property acquisitions, mine development, mine operations, drilling activity, sampling and other data, grade and recovery levels, future production, capital costs, expenditures for environmental matters, life of mine, completion dates, commodity prices and demand, and currency exchange rates. Generally, this forward-looking information can be identified by the use of forward looking terminology such as "outlook", "anticipate", "project", "target", "likely", "believe", "estimate", "expect", "intend", "may", "would", "could", "should", "should", "forecast" and similar expressions. The forward looking information is not factual but rather represents only expectations, estimates and/or forecasts about the future and therefore need to be read bearing in mind the risks and uncertainties concerning future events generally.

Forward-looking information is subject to known and unknown risks, uncertainties and other factors that may cause the Company's actual results, level of activity, performance or achievements to be materially different from those expressed or implied by such forward-looking information. Forward-looking information is developed based on assumptions about such risks, uncertainties and other factors set out herein, including but not limited to the risk factors set out in the Company's Annual Report.

This list is not exhaustive of the factors that may affect our forward-looking information. The Company disclaims any intent or obligations to update or revise any forward-looking statements whether as a result of new information, estimates or options, future events or results or otherwise, unless required to do so by law.

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