



14 March 2012

The Manager
ASX Market Announcements
ASX Limited
Exchange Centre, 20 Bridge Street
Sydney NSW 2000

Via electronic lodgement

Dear Sir/Madam,

#### **Investor Presentation – March 2012**

Please find attached the latest Investor Update for African Energy Resources Limited.

It is being presented at the Proactive Investors One2One Forum in Sydney today and at Mines and Money Hong Kong next week.

For any further information, please refer to the Company's website or contact the Company directly on +61 8 6465 5500.

For and on behalf of the board

### African Energy Resources Limited

ASX : AFR BSE : AFR

Issued Capital 326,576,735

#### **Directors:**

Alasdair Cooke
Executive Chairman

Frazer Tabeart

Managing Director

**Bill Fry**Executive Director

Mike Curnow
Non-Executive Director

Valentine Chitalu Non-Executive Director

Phil Clark
Non-Executive Director

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# **Sese Coal and Power:** Project development summary AFRICAN ENERGY





**Investor presentation, March 2012** 

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The Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves (the 'JORC Code') sets out minimum standards, recommendations and guidelines for Public Reporting in Australasia of Exploration Results, Mineral Resources and Ore Reserves. The information contained in this announcement has been presented in accordance with the JORC Code and references to "Measured Resources", "Inferred Resources" and "Indicated Resources" are to those terms as defined in the JORC Code.

Information in this report relating to Exploration results, Mineral Resources or Ore Reserves is based on information compiled by Dr Frazer Tabeart (an employee of African Energy Resources Limited) who is a member of The Australian Institute of Geoscientists. Dr Tabeart has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking to qualify as a Competent Person under the 2004 Edition of the Australasian Code for reporting of Exploration Results, Mineral Resources and Ore Reserves. Dr Tabeart consents to the inclusion of the data in the form and context in which it appears.

# 18m coal seam already exposed at Sese

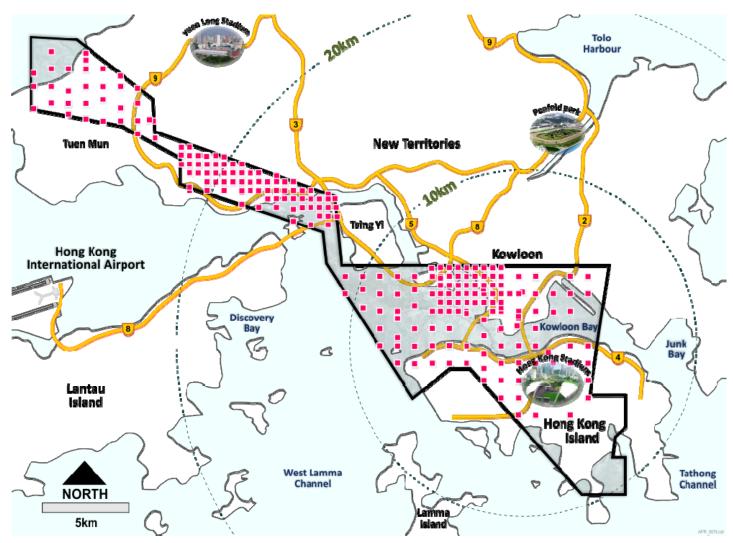




Sese bulk sample ramp. 15m of overburden above an 18m coal seam. Photograph depicts the upper 9m of the coal seam only.

# Thick seam over large area (>100km²)





### **Executive summary**



### **Summary:**

- Coal mine and power station project in Botswana
- Low sovereign and commercial risk
- Development team for mine and power project
- Aligned to markets and infrastructure

### **Sese Project:**

- Very large thermal coal deposit >2.6 Billion tonnes
- Amenable to open cut mining with <u>very</u> low ROM costs
- Can produce large tonnages of domestic and export coal

# Development Plan:

- Bankable feasibility study and EIA underway for mine
- Power off-take discussions in progress
- 15,000t bulk sample for marketing/test-work
- Stage 1: 1-2Mtpa coal production from mid-2013
- Stage 2: ramp-up to 4-5Mtpa in 2015 with feed to IPP
- Stages 3 & 4: >20-30Mtpa via expanded exports



### Capital structure and corporate overview



Capital Structure				
Shares on Issue (ASX, BSE)	326M			
Options	26.4M			
Price range (52 weeks)	A\$0.22-A\$0.91			
Market Cap (12th Mar)	A\$108M			
Cash (31st Dec)	A\$10M			

Major Shareholders				
Management	9.8%			
Mr Stacey Radford	5.3%			
Independent Asset Mgmt	4.0%			
Mr David Metford	3.8%			
Geiger Counter Ltd (CQS)	2.0%			
Republic	1.2%			
Top 20	48.1%			

#### **Board and Management**

#### **Executive Directors**

**ALASDAIR COOKE**, Executive Chairman Geologist, founder of AFR, successful mine developer

**FRAZER TABEART**, Managing Director Geologist, 25 years global exploration experience

**BILL FRY**, Executive Director Accountant, funds management and project development

#### Non-executive Directors

**BLACKIE MAROLE**, Non-exec Chairman, Botswana *Economist, senior Board roles (Debswana) and Govt. roles* 

**VALENTINE CHITALU**, Non-executive Director Accountant, investment and development management

**MICHAEL CURNOW**, Non-executive Director *Mining project development in Africa* 

**PHIL CLARK**, Non-executive Director

Engineer, 33 years experience in global coal with BHPB

#### Senior Management

**DAVID SCOTT**, General Manager Projects

Engineer, coal mine development roles in Botswana

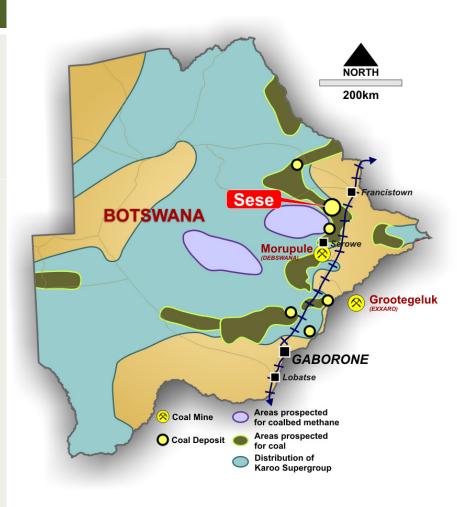
**THOMAS SCOTT-MOREY**, Power Development Manager Experienced developer of power stations and their finance

### Botswana's national coal roadmap



#### Botswana – a great place to do business

- Stable, safe and secure jurisdiction
  - Widely perceived as an excellent investment destination by companies (and their bankers!)
- Transparent Mining Act plus attractive fiscal regime
  - 3% royalty (on mine-gate revenue)
  - Attractive tax rate based on profitability ratio (generally low for "bulk commodities")
- Government has announced a national coal "roadmap"
  - Nation building opportunity to enhance economic development for 50+ years
  - Highest priority to be given to exports of coal AND electrical power
  - Establish a dedicated Coal Coordinating unit by April 2012
  - Identification of strategic partners for resource and infrastructure development
  - Infrastructure development plans by 2017



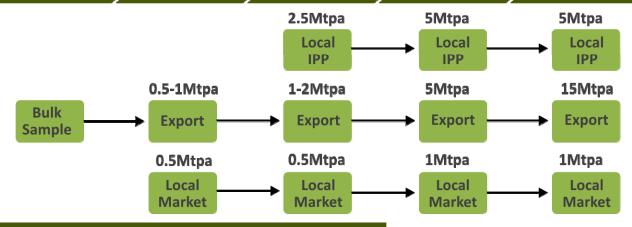
# Development plan for Sese project



#### STAGED DEVELOPMENT APPROACH

	STAGE 1	STAGE 2	STAGE 3	STAGE 4
Mining and Processing	Contract	Contract	Owner Operated	Owner Operated
ROM	2.0	5.0	16.0	30.0
Product	1.5	4.0	11.0	21.0
Incremental CAPEX	\$45M	\$60M	~\$500M	~\$500M

2011 > 2013 > 2015-6 > 2017-8 > 2020



**EXISTING INFRASTRUCTURE** 

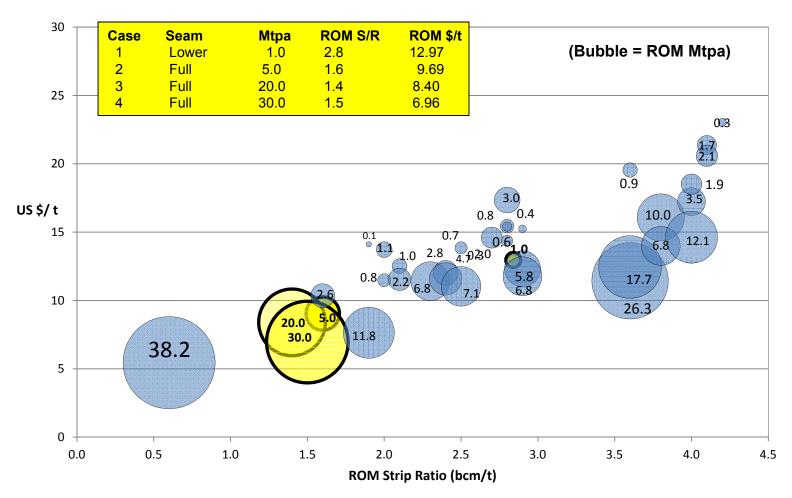
**IMPROVED INFRASTRUCTURE** 

**NEW INFRASTRUCTURE** 

### Project economics driven by low ROM cost



Sese ROM costs (yellow bubbles) benchmarked against published data for all South African open pit coal mines



Source: Wood Mackenzie Coal Supply Series South Africa 2011, and Sese Concept Study

### Stage 1: regional sales of washed coal



### Regional marketing programme underway

### Experienced consultant appointed to take Sese coal to the market...

- Targeting sales to mine site power stations, Ni-Cu smelters, brick works, cement factories etc.
- Bulk sample will provide approx. 2,000t washed coal (5000-5500 kcal/kg) for marketing
- Current regional market ~300,000 to 400,000 tonnes washed coal, and is supply constrained (current supply from one mine only)
- Opportunities to significantly expand size of regional market through selling cheap coal with low supply risk





# Stage 1: export infrastructure IS in place



### **Existing Infrastructure:**

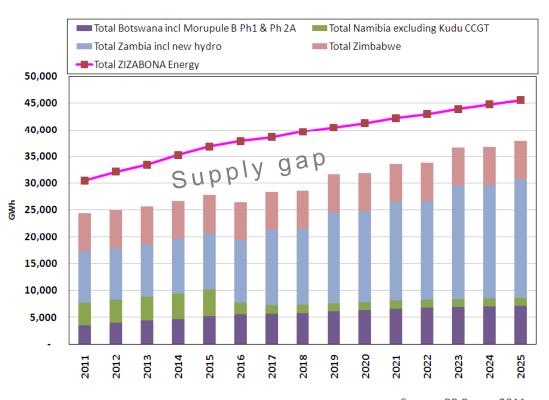
- Existing freight line 30km east of Sese provides access to Mozambique coast
- The Maputo railway line is currently operational and is used to import diesel into Botswana
- Botswana Railways (BR) expanding capacity through acquisition of 300 coal wagons, each of 50t capacity
- Rail capacity available now for 2Mt in annual coal exports
- Trial "export" to Maputo using coal from bulk sample planned for late March
- Planned 20 Mtpa expansion of Matola coal terminal (Grinrod coal terminal in Maputo) underway



### Stage 2: electricity demands IPP's



### Regional power deficit looming



Source: PB Power 2011

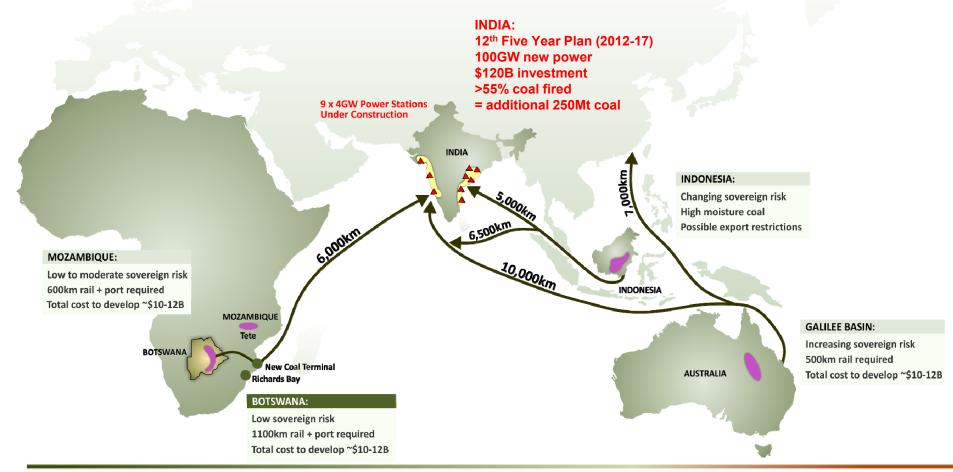
### **Bridging the gap**

- Supply gap currently covered by ESKOM exports, but these contracts moving to 'best endeavours'
- Recent announcement by Botswana Government for new 300MW coalfired Independent Power Project (IPP)
- Further IPP opportunities exist with credit worthy state-backed utilities
- AFR in a strong position to supply lowest cost coal in region
- AFR currently negotiating an initial 300MW IPP, with potential for a further 300MW
- Botswana is physically well situated at the centre of the regional transmission network

# Stage 3 and 4: export market is India



Botswana provides one of the closest supply options for Indian coal imports with less likelihood of Chinese competition - this will inevitably drive large investments in the necessary infrastructure development



# Stage 3: expansion of existing infrastructure



#### Immediate expansion opportunities

#### Rail expansion to >10Mtpa...

- Potential to expand existing cape-gauge rail capacity with more passing loops, improved corners and bridges
- Potential to improve volumes by laying ~450km new rail to avoid population centres and shorten route

#### Port expansion plans...

- Expansions of both Maputo and Beira are planned, to
   >20 Mtpa at Maputo
- Maputo expected to be >20 Mtpa within 3 years

#### Transhipment an option in the short term...

 Short term port capacity expansions possible through transhipment options at existing ports

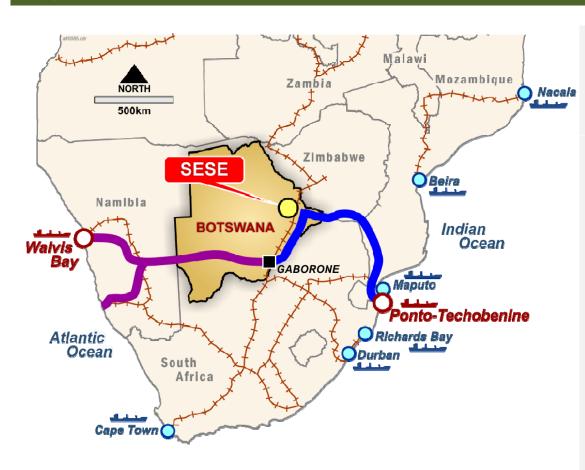




### Stage 4: planned export infrastructure



### Large-scale export infrastructure:



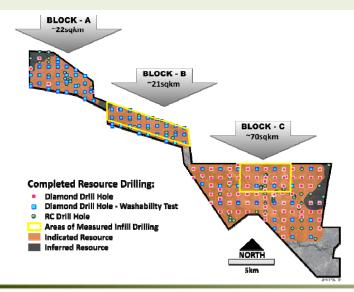
- Two consortia evaluating routes: the Trans-Kalahari Railway and Ponto Techobanine options
- Both proposing minimum of 60Mt annual export, which could be achieved from 3-4 mines in region
- Rail proposals currently at prefeasibility study stage, planned to be operational by ~2018
- AFR has commissioned independent study of the viability of these routes
- Sese project capable of exporting large tonnages of coal >20 Mtpa

### BFS/EIA – progress to date



### Bankable feasibility study

- MRM (Runge): study manager/mining consultant
- Sedgman appointed as processing consultant
- Additional consultants appointed for key tasks
- Phase 1 completed by June 2012 to prefeasibility standard
- Phase 2 completed by Dec' 2012 to bankable standard



### **Environmental Impact Assessment**

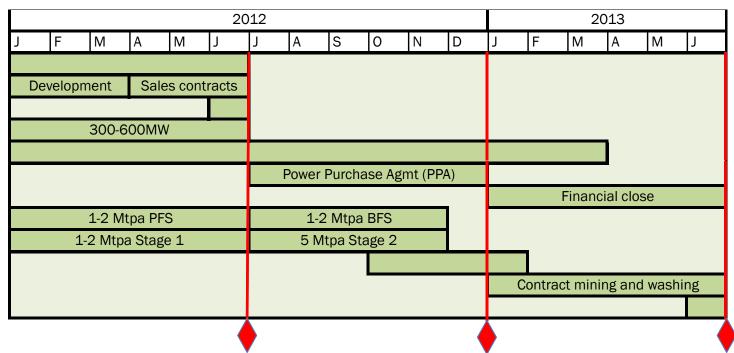
- Ecosurv appointed as EIA consultant
- Preliminary EIA for 5mtpa mine and 600MW power station has been approved
- Community consultation meetings in February
- Baseline surveys to commence in Q1 2012
- Mine EIA process to be complete by end 2012, with power station EIA some six months later



# Integrated development milestones



Measured Resource Upgrade
Coal Marketing
Mining Licence Application
IPP Feasibility Study
IPP EIA and Baseline Surveys
IPP Power purchase agreement
IPP Financing
Mine Bankable Feasibility Study
Mine EIA and Baseline Surveys
Mine Financing
Construction of Mine
First Sales of Coal



The above schedule is indicative only and assumes all project milestones are met and government permits and licences are granted in a timely manner

# **Summary**



- ✓ 2.5 billion tonne indicated resource in attractive jurisdiction
- Extremely low coal supply risk due to scale and geometry of deposit
- Team of developers with significant coal mine and power station expertise
- ✓ Thermal coal suitable for both export and domestic markets
- √ 15,000t exploration bulk sample for washing test-work and market development
- ✓ Ideal feedstock for power station(s) in low-risk environment
- ✓ Initial 1-2Mtpa Stage 1 operation in 2013, ramping up to 4-5Mtpa for Stage 2