

#### **ASX Announcement**

20 April 2015

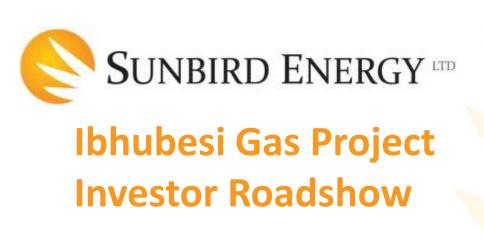
#### SUNBIRD ENERGY CORPORATE PRESENTATION

Sunbird Energy Limited (ASX: SNY) is pleased to release the attached Corporate Presentation being presented to investment advisors in London and South Africa.

\*\* ENDS \*\*

#### For further information please visit <u>www.sunbirdenergy.com</u> or contact:

Will Barker Managing Director, Sunbird Energy Ltd Tel: +61 8 9463 3260 Tel: +27 11 484 5005 Kerwin Rana Chairman, Sunbird Energy Ltd



**April 2015** 

## **CORPORATE OVERVIEW**



Sunbird Energy Ltd is an ASX-listed (ASX:SNY) gas explorer and developer focused on southern Africa where limited domestic gas supply and growing energy needs have created significant opportunity for the development of large scale energy projects.

#### **Reserves & Resources**

Ibhubesi Gas Project - 540 Bcf (2P) (SNY 76%: 410 Bcf)\*

 Best Estimate Prospective Resources – 7.8 Tcf (SNY 76%: 5.9 Bcf)\*

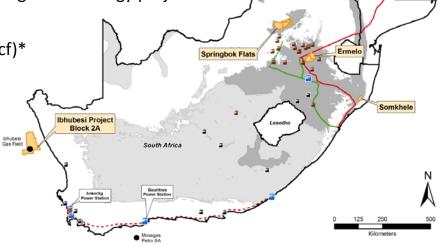
\* Refer to page 6 for details

#### **Key Activity 2015**

- Advance commercialisation of the IGP:
  - Finalise Gas Sales Negotiations
  - Undertake FEED & Regulatory Approvals
  - Project Financing / Partnering
- CBM Advance Mopane to Pilot Project

Capital Structure	
Share Price	\$0.15
No. of Shares Issued^	136.7m
Market Capitalisation	\$20.5m
Market Capitalisation	<b>ΨΞ0.5</b>
Cash	\$1.0m

Figures in AUD\$ ^ Excludes 38.5m Options convertible at 20-50c



#### **Board**

#### Kerwin Rana | Chairman

Chemical Engineer with 17 years mining industry experience, previously Executive Head of New Business for De Beers. Managing Director, Umbono Capital

#### Will Barker | Managing Director

Geologist with 15 years experience in gas industry, previously GM LNG, Arrow Energy & OM, New Guinea Energy

#### Andrew Leibovitch | Executive Director

Chartered Accountant, 20+ years in Corp Finance, previous GM roles at Woodside & Western Mining

#### Marcus Gracey | Non-Executive Director

Corporate Lawyer with extensive energy experience

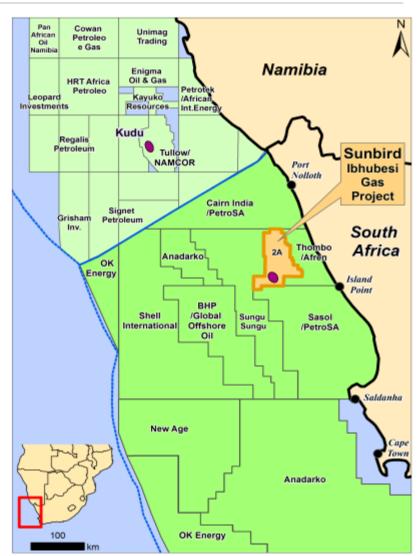
## IBHUBESI GAS PROJECT



# Largest undeveloped gas field in South Africa with reserves of 540 Bcf (2P)

- Sunbird 76% interest: PetroSA 24% interest (South Africa's national oil company)
- 5,000km² Production Licence
- 380km north of Cape Town
- 70km offshore, 250m of water
- 11 wells drilled, 7 gas discoveries
- 1,770km² 3D seismic coverage
- \$125m spent on exploration and appraisal since 2000
- Major oil companies active in area Shell, Anadarko,
  Cairn India, Exxon, Total and BHP currently exploring

GSA Term Sheet signed with Eskom for supply of 30 Bcf p.a. to 1,350 MW Ankerlig Power Station, north of Cape Town



Orange Basin: Best estimate Prospective Resources of 22.5 Tcf gas in place, source: Petroleum Agency of South Africa

## RSA ENERGY CRISIS



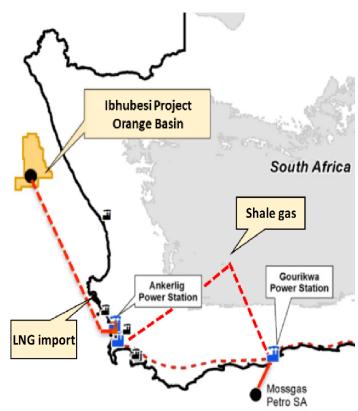
#### **Energy Crisis**

- Load shedding (rolling blackouts) occurring on a regular basis
- Relying on diesel fired turbines to support the grid
- US\$1billion spent on 1,148m litres of diesel for electricity generation in 2013/14 (equivalent of \$25 - \$30 per Mscf)
- Diesel accounts for 15% of Eskom's primary fuel costs but only contributes 1.6% of power generated

#### **Eskom War Room**

- In December 2014, RSA Cabinet has established a war room to oversee a five point plan to address the electricity challenges facing the country
- Five Point Plan covers:
  - The interventions that Eskom will undertake in the period over the next 30 days
  - 2. Harnessing the cogeneration opportunity through the extension of existing contracts with the private sector
  - 3. Accelerating the programme for substitution of diesel with gas to fire up the diesel power plants
  - Launching a coal independent power producer programme; and
  - 5. Managing demand through specific interventions

#### **RSA Gas Economy Potential**



#### **Gas Supply Options**

- Offshore (Orange Basin)
- Liquefied natural gas (LNG) imports
- Shale gas potential
- Coal bed methane potential •

#### **Market Opportunities**

- Conversion of existing dieselfired power plants
- New-build gas-fired power plants - 3.5 GW (IPP Program
- Major industrial users / GtL

# ESKOM GSA TERM SHEET



# On 18 March 2015, Sunbird announced it had entered into a Gas Sales Agreement (GSA) Term Sheet with Eskom

- The Term Sheet outlines the key terms and process to negotiating a fully termed GSA
- Key terms include:
  - Gas Volumes
  - Contract Term
  - Gas Price
  - Take or Pay provisions
  - Timeframes for development
  - Opportunity to supply early gas / LNG
- Initial contract of 30 Bcf enables Eskom to convert 5 of the 9 turbines at Ankerlig from diesel to gas on a mid merit (48%) load factor
- Significant gas sales expansion opportunities within Ankerlig, 3.5 GW IPP program and major industrial uses in Saldanha and West Coast

#### **Eskom**

- South Africa's State owned energy company and largest producer of electricity in Africa
- Eskom generates ~95% of the electricity used in South Africa and ~45% of the electricity used in Africa



#### **Ankerlig Power Station**

- 1,350 MW open cycle gas turbine facility located
  ~40 km north of Cape Town
- Originally constructed to provide peak power
- 9 turbines originally designed to provide peak power and powered by either natural gas or liquids
- To date facility has been fuelled on high cost diesel

# IGP: RESERVES & RESOURCES



# Combination of proven reserves and extensive exploration upside provides attractive development and expansion opportunities

Proven reserves account for less than 5% of license area

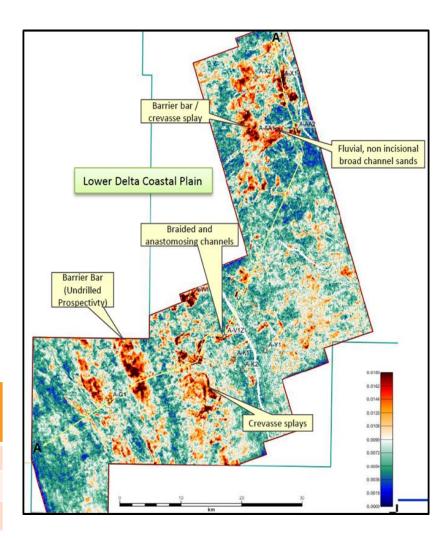
	Recoverable Gas Volume (Bcf) (Gross 100%)	Recoverable Gas Volume (Bcf) (SNY 76%)	Recoverable Condensate Volume (MMbbls) (Gross 100%)	Recoverable Condensate Volume (MMbbls) (SNY 76%)
1P Reserves	210	155	1.7	1.3
2P Reserves	540	410	4.3	3.3
3P Reserves	915	695	7.3	5.6

Source: Reserves independently certified by MHA Petroleum Consultants in June 2013

# Significant exploration potential with best estimate prospective resource of 7.8 Tcf \*See page 13

Prospective resources	Recoverable gas volume (Bcf) (Gross 100%)	Recoverable gas volume (Bcf) (SNY 76%)	
Low estimate	4,509	3,427	
Best estimate	7,783	5,915	
High estimate	13,304	10,111	

Source: Resources independently certified by MHA Petroleum Consultants in March 2014



Modern 3D seismic data

# **BLOCK 2A PROSPECTIVITY**



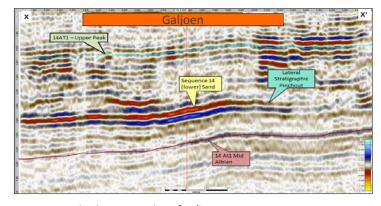
#### Large Prospect Portfolio

- Over 35 individual prospects identified
- Play types cover multiple stratigraphic levels
- Three lower risk "drill ready" prospects inside 3D seismic area with potential to deliver additional reserves to the IGP
- Numerous large targets identified in 2D seismic

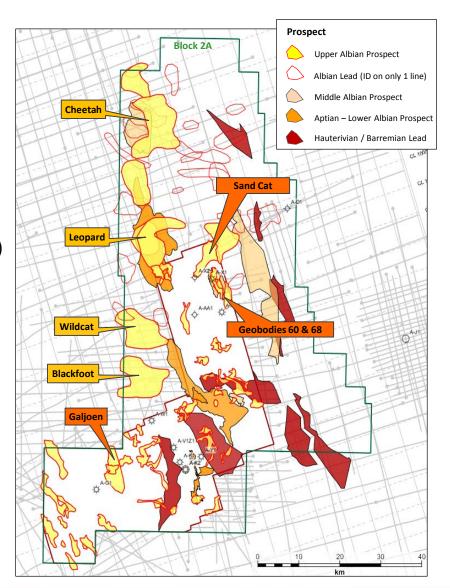
#### Exploration Plan:

- Drill two exploration wells (during development phase)
- Acquire additional 3D seismic over high impact prospects identified on the 2D seismic

# Best Estimate of Prospective Resource of 7.8 TCF (SNY 5.9 TCF) for Block 2A



Seismic Cross Section of Galjoen Prospect



# IGP DEVELOPMENT PLAN



Initial development provides critical infrastructure and route to market for expansion of project to meet market needs

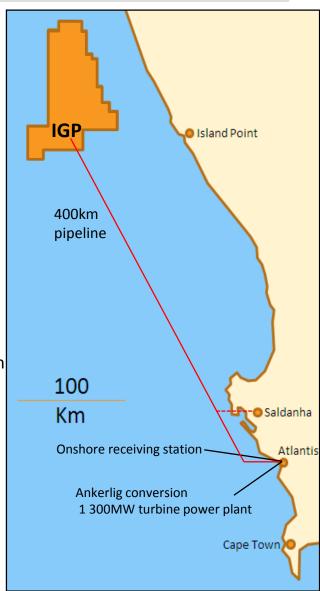
#### Development plan:

- Sales and delivery point at Ankerlig Power Station, Atlantis
- Mid-merit load profile requires 30 Bcf p.a.
- First gas deliveries in H2 2018
- 2P reserves of 540 Bcf provide up to a 15 year Production Period
- Additional line into Saldanha for power generation, industrial supply to new customers

#### Development concept:

- Production drilling initial 7 vertical wells plus further 7 wells in phase 2
- Subsea Infrastructure subsea wellheads, flow lines, manifold and production risers
- Offshore Processing Facility leased FPSO vessel with gas dehydration, condensate stripping, gas compression
- Dry Gas Export Pipeline 400km offshore and 15km onshore, small onshore gas receiving and metering station; pipleine tariff arrangement
- Upstream capital expenditure \$850M (+/- 30%)

Based on the gas price range in the GSA term sheet, IGP is economically attractive and meets investment criteria for project financing



# NATIONAL BENEFITS



- Local energy supply on the west coast to:
  - Reduce fuel costs
  - assist in meeting its growing energy needs
  - improve energy security
  - alleviate power shortages
  - reduce line losses

coast to new industry

catalyse for new gas industry

<b>SIP 5 Project:</b> Presidential Infrastructure co-ordinating Commission as a SIP5 project	Job creation: direct, indirect jobs
Direct investment: R15-20 billion	<b>Training, development:</b> commitment to development of local skills, enterprise
Electricity generation: 500 – 2 000MW of cleaner electricity	<b>Reduction of carbon emissions:</b> directly reduce CO₂ emissions by 20 million tonnes
<b>Government revenue:</b> Royalties, corporate tax, payroll taxes, state (PetroSA) participation	Significant existing BEE and state participation: 23% and 24% respectively
Industry participation: contractors and service-providers	Rand-based energy pricing: ability to price proportion of gas supply in Rands
<b>Downstream industry creation:</b> create industry onshore	Balance of trade benefits: reduction deficit from fuel imports
Upstream industry creation: opens west	Security of supply: reduction in reliance



SIP 5: Saldanha - Northern Cape Development Corridor



PRESIDENTIAL INFRASTRUCTURE COORDINATING COMMISSION

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on foreign energy supply

# **IGP:** MILESTONES TO FID

Transfer of Title

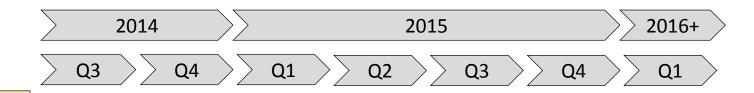


Integrated FDP

**Enviro Approvals** 

FID

Phase 2 FEED / Seabed Survey



GSA Term Sheet

Phase 1 FEED

#### **Project Activities**

Subsurface: \$2.3m

Engineering: \$16.3m

Regulatory: \$0.5m

Commercial: \$1.6m

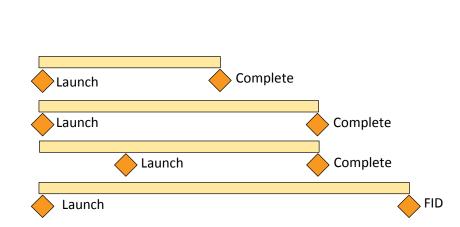
#### **Funding Activities**

Farmout / Partnering

**Pipeline Financing** 

**FPSO Lease** 

**Project Financing** 



**Drilling Plan** 

GSA

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**FDP** 

## FINANCING UPDATE



#### **Funding Activities to Date**

Jan 2012	Mar 2013	Aug 2013	Feb 2014	Aug 2014	Oct 2014	Feb 2015
ASX IPO:	Post IGP Acq:	USTDA FDP Grant:	White Swan Loan:	Umbono Loan:	Vandasia Phase 1:	RSA Loan
A\$9M @ \$0.20/sh	A\$5M at \$0.40/sh	A\$0.8M	A\$2.65M draw down repaid 18 Mar 2015	A\$0.75M drawdown	A\$5M at \$0.277/sh	\$1.2M drawdowi

#### **Upcoming Funding Activities**

- With the recent announcement of the GSA Term Sheet with Eskom, Sunbird's capital management plans:
  - Raise \$5-\$10 million: Complete the commercial negotiations, undertake first phase detailed engineering studies to advance the project and receive regulatory approvals and initiate project financing plans
  - Phase 2 (\$10-\$20 million): Undertake field survey activities prior to construction, complete detailed engineering, finalise project financing structures and undertake Final Investment Decision

Potential capital injection options include – equity, strategic investors, partnering and / or farm-out

## **SUNBIRD HIGHLIGHTS**



# Focus on Ibhubesi commercialisation to deliver value from Sunbird's large scale strategically located gas reserves and exploration portfolio

- 76% working interest and operatorship of the largest undeveloped gas field (540 Bcf
  2P) (SNY 410 Bcf) in Africa's largest economy
- GSA Term Sheet signed with Eskom for supply of 30 Bcf p.a. to 1,350 MW Ankerlig
  Power Station
- 5,000km² Production Right provides extensive expansion opportunities with best estimate prospective resource of 7.8 Tcf (SNY 5.9 Tcf)
- Over \$125m spent to date to deliver a highly mature project reserves, technical studies, commercial negotiations, and regulatory approvals
- Sunbird to drive the IGP through finalising GSA negotiations, FEED studies, project partnering/financing and regulatory approval to a final investment decision in 2016
- Sunbird is poised to be South African's leading gas development company in an energy market in desperate need of new energy sources

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The reserves and resource estimates used in this announcement were compiled by Tim Hower (Registered Professional Engineer (Colorado #9597), and member of the Society of Petroleum Engineers) and Jeffrey B. Aldrich a Certified Petroleum Geologist, #3791, by the American Association of Petroleum Geologists (AAPG) and member of the Society of Petroleum Engineers (SPE). Both Mr Hower and Mr Aldrich are of MHA Petroleum Consultants LLC. The definitions of proved, probable, and possible hydrocarbon reserves and resources are consistent with those as they appear in the ASX Listing Rules. Mr Hower and Mr Aldrich are qualified in accordance with the requirements of ASX listing rule 5.42 and has consented to the use of the reserves and resource figures in the form and context in which they appear in this announcement.

#### **Prospective Resources**

"The estimated quantities of petroleum that may potentially be recovered by the application of a future development project(s) relate to undiscovered accumulations. These estimates have both an associated risk of discovery and a risk of development. Further exploration appraisal and evaluation is required to determine the existence of a significant quantity of potentially moveable hydrocarbons".

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Production testing of the A-K2 well Ibhubesi Gas Field in 2000