

KUDU POWER PROJECT

HIGH-LEVEL PROJECT UPDATE

June 2015



Illustration of Upstream – Downstream integration



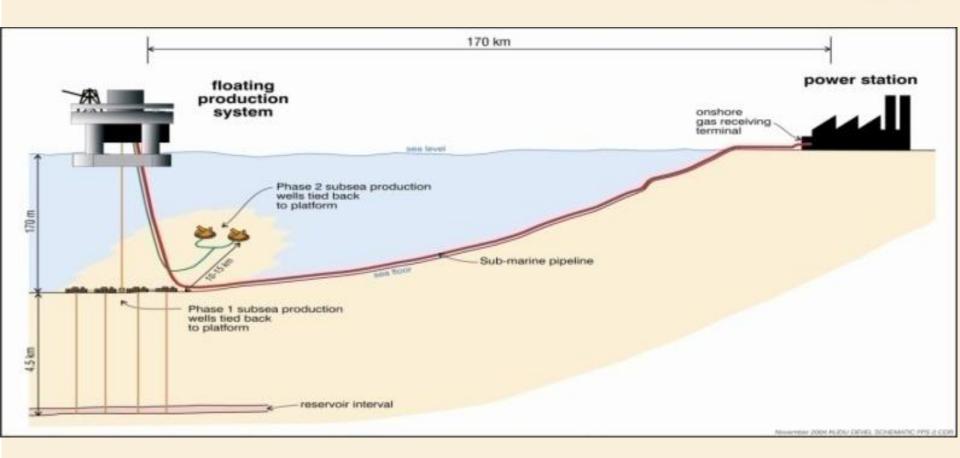
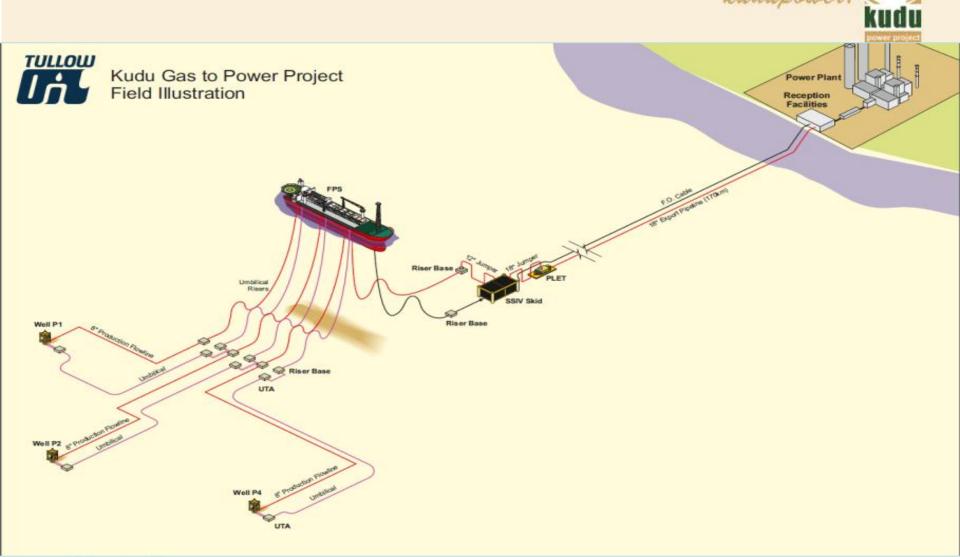




Illustration of Upstream infrastructure





kudupower!

Kudu Project History

NamPower Neutring the Nation and Layered



2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Heja N Eskom Nar	Apr 07 Itochu 20% farm in b 07 Lodge Itg , Tullow, ncor, roSA Mar– Ju Export 0	Gas	Feb 09 Aug 09 Tullow Producti proposes Licence (CNG Aug 09 CNG Termsheet signed	reverts to 800MW power project Wit 90002	lay 11 to meet Petrole adline & Ag. hdraws signe Oct Produc Licence	Joint Op. Ag. signed 11 ction I e 003 I Dev	/ GIUDIII GIIL	evelopment Tu Ag. With signed PXA HoT signed	EPC tt 14 Illow draws March 15 GRN Agrees to Kudu Support Package
	Pipelir study L Kudu Opti Study (K size)	ons			Upstream- Downstream Technical Integration Studies		NP & Esk conduct jo Tx studie	pint EPC, O&M,	

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Key Facts about the Kudu Power Project

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♦•Ownership NamPower, CEC, SEI

***Location**

Power Station
Oranjemund

➤ **Gas Field** Offshore (170km)

❖ Lead Developer NamPower (51%)

❖Technology CCGT (F-Class)

♦• Offered Output 2 x 442.5 = 885MW

❖ Preferred EPC & OEM Shanghai Electric & Siemens (LTSA)

❖ Reserve EPC & OEM Posco & Sumitomo, MHPS

♦ MLA Standard Bank

❖ Main Power Off-Taker NamPower

❖Secondary Off-Takers CEC Plc & Eskom

❖ Generation License application submitted to ECB (approval

by end of May 2015)

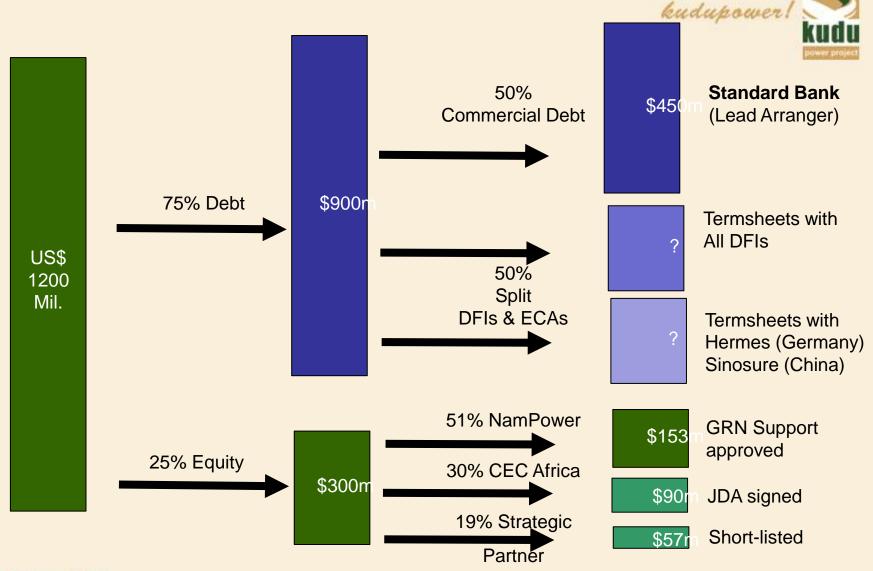
approved in March 2015

GPN Support

Descring the Nation and Engand

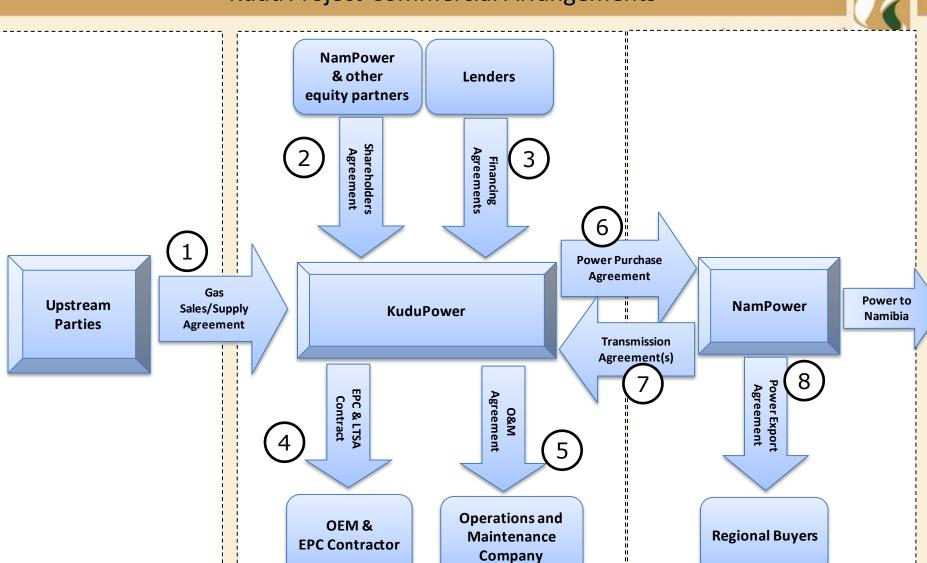
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Power Station Project Cost & Funding





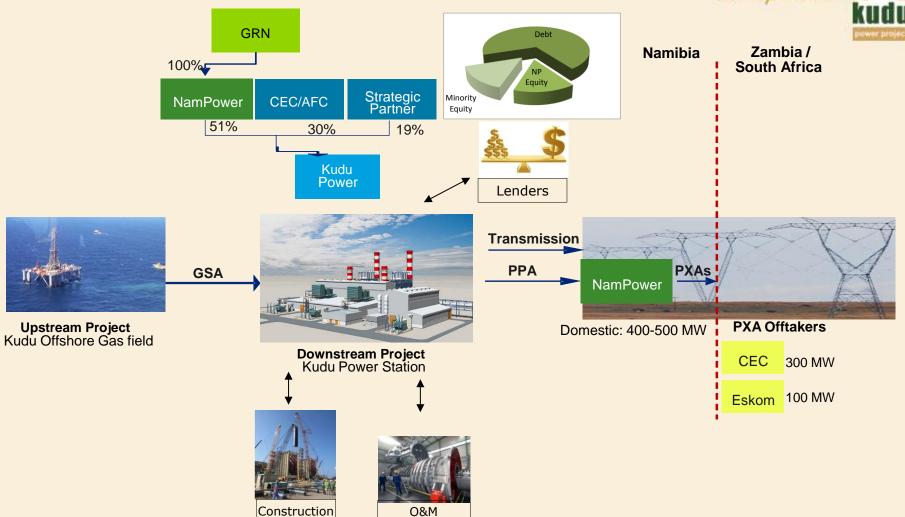
Kudu Project Commercial Arrangements





Required Project Relationships & Agreements kudupower! Wet to Spec Spec Gas Gas to Power Power Power Gas Project **FPS** Kudu Power Station **Pipeline** Nam Grid Regional Grid **Implementation** Off taker **GRN** Energy GSA PPA PXA Regional KuduPower **Owners** NamPower Sales Namcor Recon **JDA** Regulatory Interfaces NamPower NamPower Eskom Other Tx **OMCo TBD** Operators U/S **EPC** Ag NamPower SEI Supply ECB Dx **EPC EPC EPC** OEM Constructors **0&M** Contractor Contractor Contractor JOA **EPC** Tx EPC **LTSA** J/v partner J/v partner Namcor Connection. **Production License GSA** Infrastructure KuduPower NamPower Eskom Owners J/v partner J/v partner **KPS Site** Loans **PDA** NamDeb Loans Energy JDA-SHA **Funders** Lenders ransmission Lenders NamPower SEI CEC Technical Direct Financial Confidential NamPower Proving the Nation and in Upstream GRN **GRN**







Update on Commercial Agreements:

- **1. Gas Sales Agreement**: A fully termed GSA between KuduPower and the Upstream Partners has been drafted and agreed to the fullest extent possible.
- 2. Power Purchase Agreement: The PPA between NamPower and KuduPower has been drafted and key terms agreed.
- 3. The Transmission Connection Agreement (TCA) between NamPower and KuduPower has been drafted and key terms agreed.
- **4. The Transmission Connection Agreement** (TCA) with Eskom has been drafted. Eskom has commenced with the transmission study for the evacuation of power from Kudu.

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Update on Commercial Agreements:

4. Power Export Agreements (PXA) with CEC:

- kudupower! kudu
- ✓ CEC Plc expressed interest in to off-take about 300MW from the Kudu Power Station in exchange for 30% equity in the project.
- ✓ The PXA Termsheet with CEC Plc was signed in February 2014,
- ✓ Full PXA negotiations have commenced and are expected to be finalized by
 July 2015

5. Power Export Agreements with Eskom:

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- Interest from Eskom is for 100MW mid-merit/peaking (profiled) power, ZAR-based but with hedging costs incorporated.
- A fully drafted PXA was presented to Eskom in 3rd quarter 2014, but bureaucratic processes are delaying commencement of negotiations.
- MME has initiated a process with the DoE to discuss the IGMOU for the offtake and transmission integration investment in South Africa.

Update on Tenders



Mandated Lead Arranger (MLA)

standard Bank has been appointed as the Mandated Lead Arranger.

EPC

Shanghai Electric Corporation (SEC) in partnership with Siemens AG have been selected as the preferred EPC contractor and Original Equipment Manufacturer (OEM) respectively.

Operations & Maintenance Operators (O&M)

If the companies have been shortlisted, and clarifications & negotiations were finalized on 17 June 2015. Selection of preferred bidder in July 2015.

Strategic Equity Investor

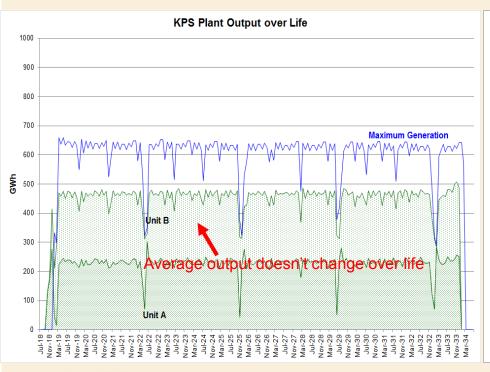
The preferred and reserve Bidders have been selected, and clarifications & negotiations are underway. This process to be concluded by end July 2015.

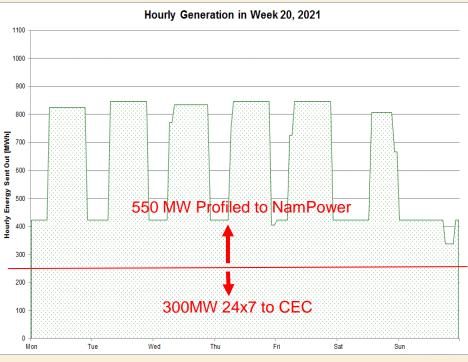
NamPower
Breating the Nation and Report

Kudu Off-take Supplied to Namibia



- 1. Studies by the Kudu Team & NamPower showed Namibia could take Kudu output if CEC takes 300MW.
- In the low off-take scenario (high Ruacana flows, low demand growth) KPS would be limited to take-or-pay gas volumes.







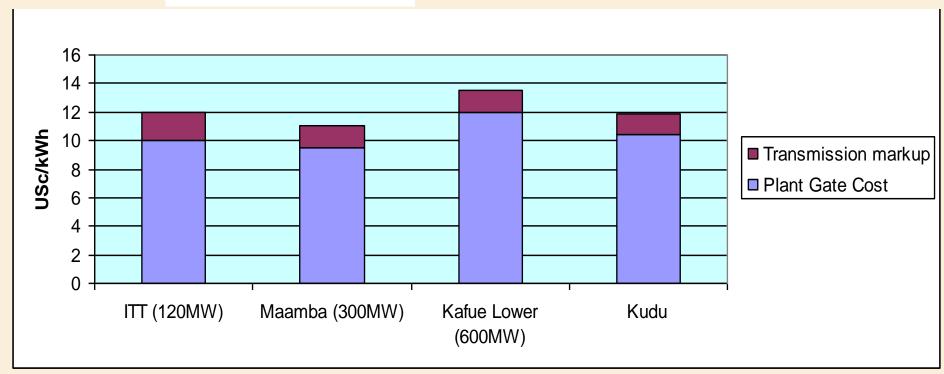
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Regional competitiveness



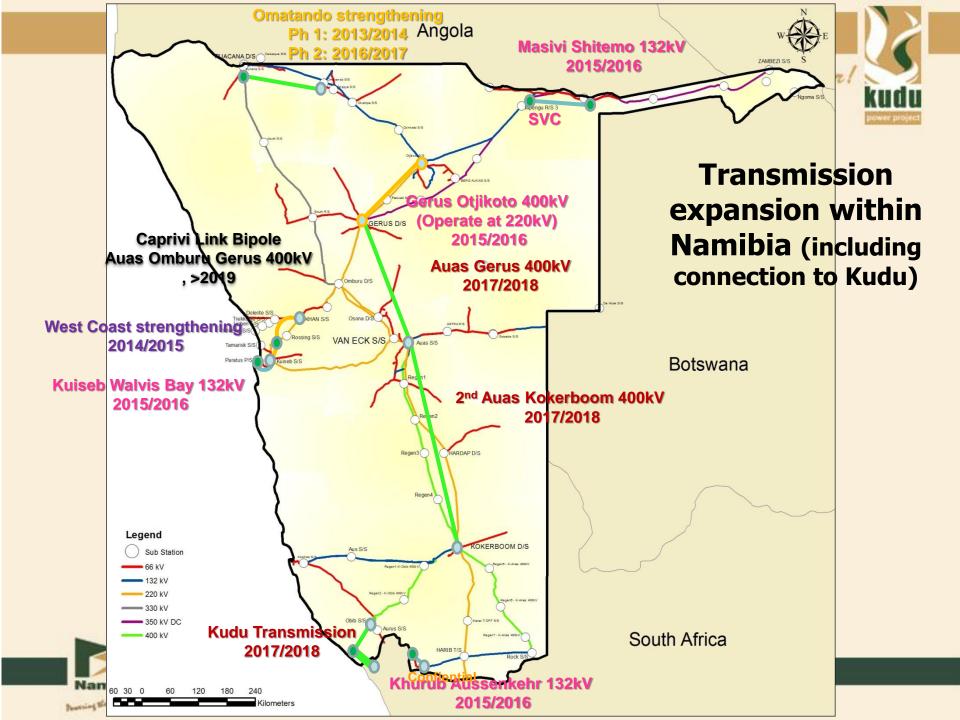
Kudu tariff very competitive against any regional project (new build)

Indicative 2015 Tariffs





Source Copperbelt Energy Corporation: 2011



Kudu – Eskom Transmission integration





Kudu Project Update : Timelines - Development Phase



Nov 2014	Dec 2014	Jan 2015	Feb 2015	Mar 2015	Apr 2015	M: 20		Jun 2015	Jul 2015	Aug 2015	Sep 2015	Oct 2015	Nov 2015	Dec 2015
Upstream EPC(s)														
	Operator								pation Ag	& Financin	ıg			
								IFC Equity Financing						
GRN support/Imple									Agreemen	ts				
		Finalise GSA												
	KuduP	ower EPC	/LTSA											
						Fi	nalis	e O&M						
	Finalise PPA													
					Fi	inalise	PX	As						
	Finalise TCA													
				Esk	om Interc	onne	tion							
						F	inali	se SEI		Sha	reholders	s' Ag		
								Lenders' Due Diligence						
							Finalise Financing Agreements							



Key issues on Project Timelines



- All technical and commercial contracts are in final stages of negotiation/drafting.
- ➤ Time required for Lenders' due diligence is outside NamPower's control, however GRN Support has made the project more attractive and bankable,
- Aggressive timelines have been set for the project, but slippages of up to 3 months will not threaten project completion.



INDICATIVE PROJECT TIMELINES



Conclusion of all agreements
 31 July 2015

Financial Close:
 December 2015

Commencement of construction: 1st quarter of 2016

Construction Period:
 33 months from FC

Commercial Operations Date (COD): 1st quarter 2019





THANK YOU.

