Powering the Nation for 20 years and beyond

Celebrating 20 powerful years of Independence and 20 more towards the realisation of Vision 2030



NamPower
Powering the Nation and beyond



THE KUDU POWER PROJECT



Downstream Structure:



❖ Power Station developers/partners:

❖ NamPower: 51%

❖ Strategic Equity Partners: 49%

Location of power plant: Uubvley (25km north of Oranjemund)

❖ Technology:
CCGT

❖ Power Output: 800MW (nominal)

❖ Main Off-taker: NamPower

❖ Secondary off-takers: Zambia & South Africa



NamPower's key role in the Kudu Power Project:

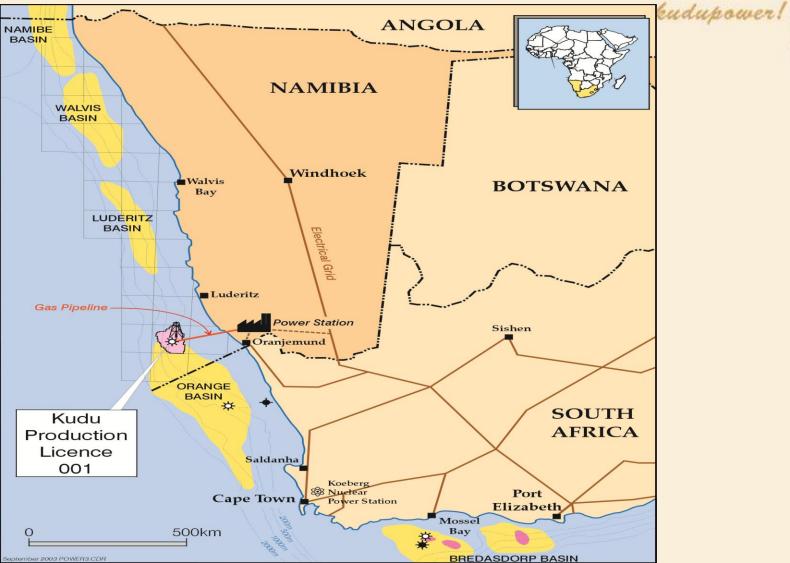


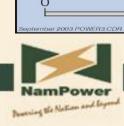
Current key role of NamPower in the project:

- ❖ To remain lead developer of the Kudu Power Station,
- Busy farming-out 49% equity in KuduPower to strategic partners,
- * NamPower will off-take 800MW from the Kudu Power Station,
- ❖ NamPower will on-sell 400MW to regional off-takers:
 - CEC to off-take 300MW negotiations advanced
 - Eskom to off-take 100 300MW negotiations on-going



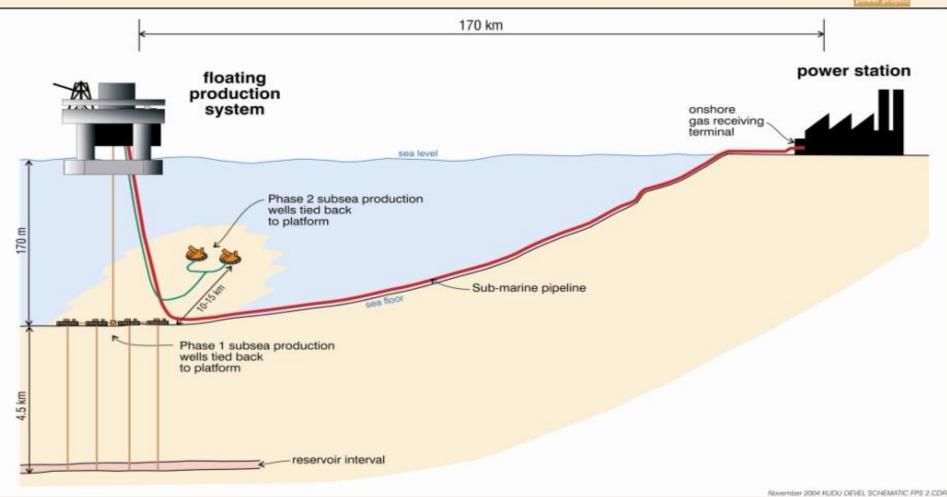
Location of Kudu Power Station





Gas Field – Power Station scheme







Upstream Structure:



* Kudu Gas Field developers (owners):

❖ Namcor - 54% (in the process of securing a carry partner)

❖ Tullow Oil - 31%

❖ITOCHU - 15%

❖ Location of gas field: 170km off-shore

❖ Proven reserve: - 1.3tcf

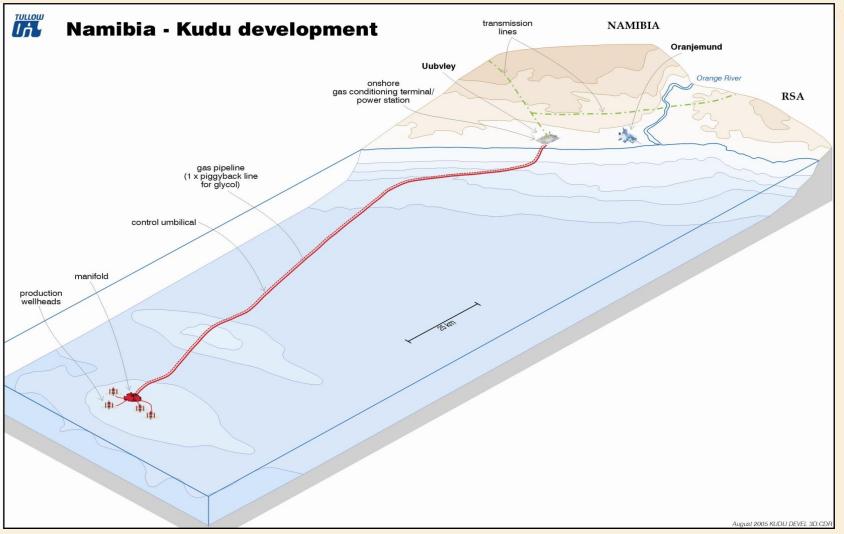
❖ Off-taker of the gas: KuduPower (Pty) Ltd



Upstream project concept







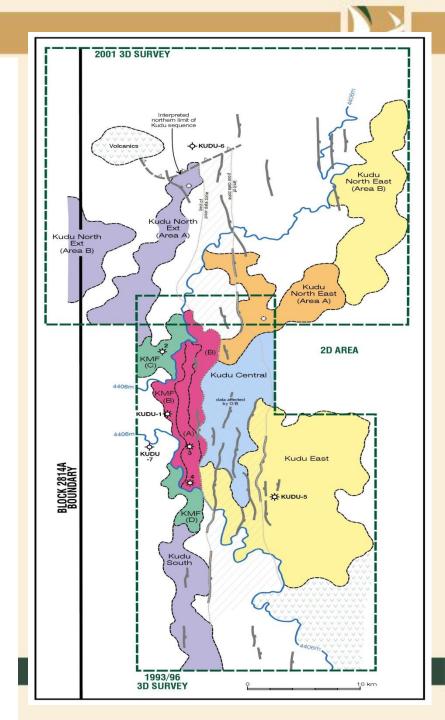


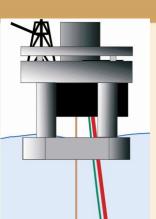
Kudu Gas field reserve & location

- Water depth : 170m
- ☐ Reservoir depth 4400m
- □ 170km from shore

Deterministic GIIP estimates (tscf):

| | EA | GCA |
|----------|------|------|
| Proved | 1.38 | 1.45 |
| Probable | 3.28 | 2.72 |
| Possible | 9.92 | 7.12 |





KUDU PROJECT SCHEME



Domestic supply

Gas Sales/Supply Agreement

<u>Upstream</u>

Namcor (54%) Tullow Oil (31%) ITOCHU (15%)

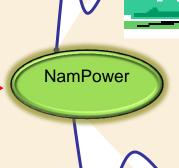


Downstream

800 MW CCGT Power Station

KuduPower (Pty) Ltd

(NamPower + Partners)



Power Purchase

Agreements

Power Export Agreements

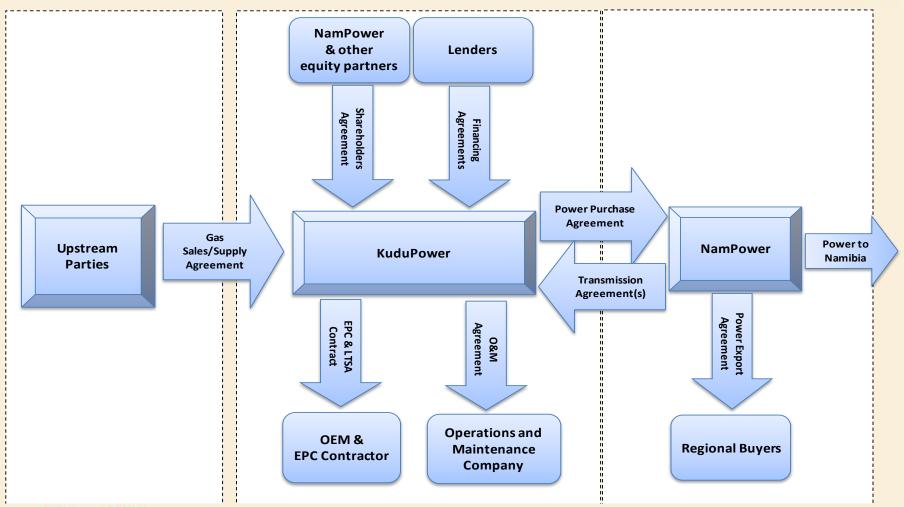




Kudu commercial structure:



Kudu Project Commercial Arrangements







KUDU'S COMPETITIVENESS IN THE REGION



Kudu's regional competitiveness:

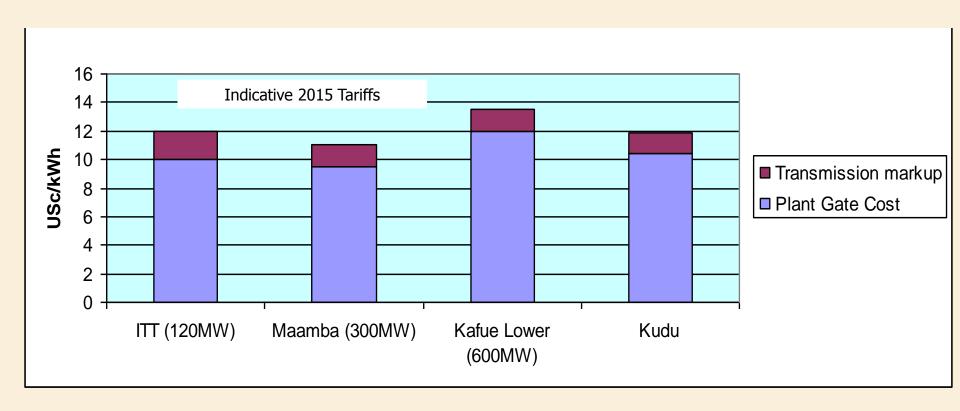


- Regional project comparison that was carried out indicates that:
 - ❖ Kudu is forecast to cost approximately US\$10 11c/kWh which is competitive with any regional new build coming on-stream by 2017/18,
 - Kudu's technology is environmentally clean compared to several regional coal projects planned,
 - ❖ it will be the first CCGT power station in the SADC region, and the first CCGT of this size in Africa.



Basic Cost Comparison (Zambian Projects vs. Kudu)



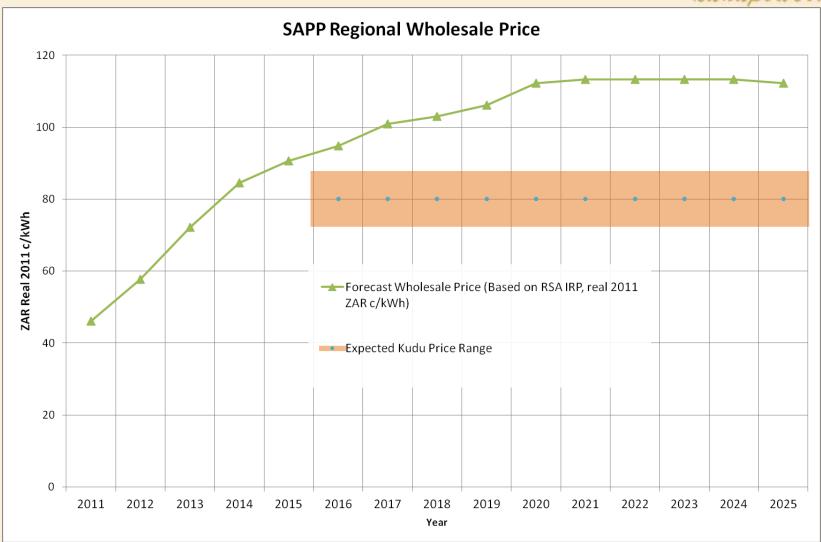


Source Copperbelt Energy Corporation: 2011



Regional Pricing Forecast (Border Price)



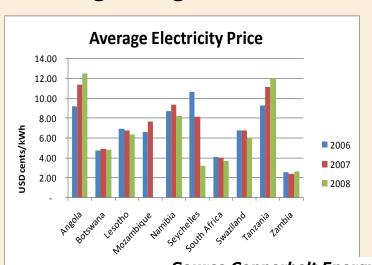




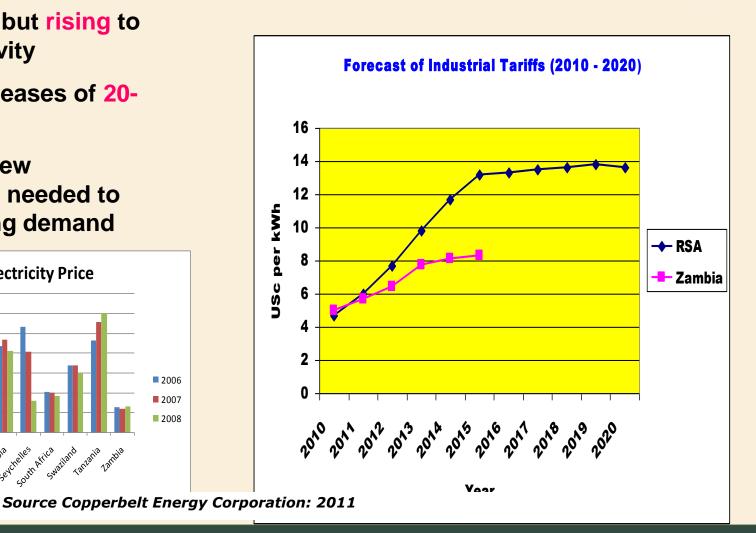
Regional Perspective of Pricing Trends



- Low Tariffs but rising to cost reflectivity
- Annual increases of 20-30%
- Driven by new investments needed to meet growing demand



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LATEST PROJECT UPDATE





Engagement with Government on-going on:

Shareholder (parent) guarantees,

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- Policy & regulatory support for guaranteed tariff & protection from impacts of future change of law.
- o Government has engaged the World Bank and Africa Development Bank (AfDB) to provide advisory services on the structuring of the guarantees required for the project.

The Project Development Agreement (PDA):

- The PDA negotiations between NamPower and the Kudu Gas Field developers were concluded and signed-off in March 2013.
- PDA Steering Committee established, it is the highest decision making body as regards coordinating project timelines and project activities.



o EPC Tender:

- ➤ NamPower issued an EPC pre-qual tender in April 2013, and out of 45 companies that submitted bids, 15 were shortlisted.
- The main EPC tender document has been issued to all 15 prequalified companies/consortia, and the tender is expected to close on 18 Oct 2013. 13 companies are still in the running.
- ➤ Evaluation of the received tender bids expected to be completed before the end of 2013, with award at FID by mid 2014.





Procurement of Strategic Partner(s):

- Expression of Interest received from CEC (Offtake Investor) to take upto 30% equity in the project. Joint Development Agreement (JDA) negotiations between NamPower and CEC were concluded in August 2013 and awaits formal approval by the Board, with signature subsequently thereafter.
- ➤ The Strategic Equity Investor pre-qualification tender for the procurement of a Power Developer for the remaining 19% was issued to the market on 19 July 2013, and closed on 9 August 2013.
- > The shortlisting has been concluded.





Power Export Agreements (PXA) negotiations:

- ➤ PXA Termsheet negotiations with CEC of Zambia started in 2011 and are expected to be concluded in early September 2013,
- > PXA Termsheet negotiations with Eskom also commenced in 2011 and still on-going,
- > Full PXA negotiations expected to commence before the end of 2013.



Update on Kudu tenders



Tenders that have been issued so far:

EPC pre-qualification tender - done

EPC main tender - closing 18 Oct 2013

Investor pre-qual tender - shortlisting finalized

O&M pre-qual tender - shortlisting finalized

Financing pre-qual tender - closing 18 Oct 2013



Strategic importance of Kudu to Namibia:



- Kudu is a strategic project as it will be the only large power station in the country,
- Kudu platform for the development of energy-intensive, exportoriented industries vital to the next phase of Namibia's economic development".
- > Kudu will have a substantial impact on Namibia's balance of payment through increased export earnings.
- > It would allow for the diversification of energy sources used for power conversion in both Namibia, South Africa and the region;



Direct/Indirect Impact on the Karas Region

Direct impact on Oranjemund:

- Increased revenue for local authority,
- Housing expansion,
- Infrastructure expansion/upgrade

Benefits & impact on the Karas region:

- Sub-contracting during construction,
- Employment opportunities,
- Increased trading opportunities,
- Local economy will be boosted,
- Increased utilisation of Luderitz harbour,
- Stimulation of secondary industry in region,
- > Increase in tourism potential of the region.





Indicative project timelines (2013 – 2017):



- Signature of PDA:
 - o 1 March 2013
- Final Investment Decision/Financial Close:
 - o 2nd quarter 2014
- Commencement of construction:
 - o 4th quarter of 2014
- Commercial Operations Date (COD):
 - COD target date: end 2017
 - (36 months construction period)





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