

**WEBBER WENTZEL**

in alliance with > **Linklaters**

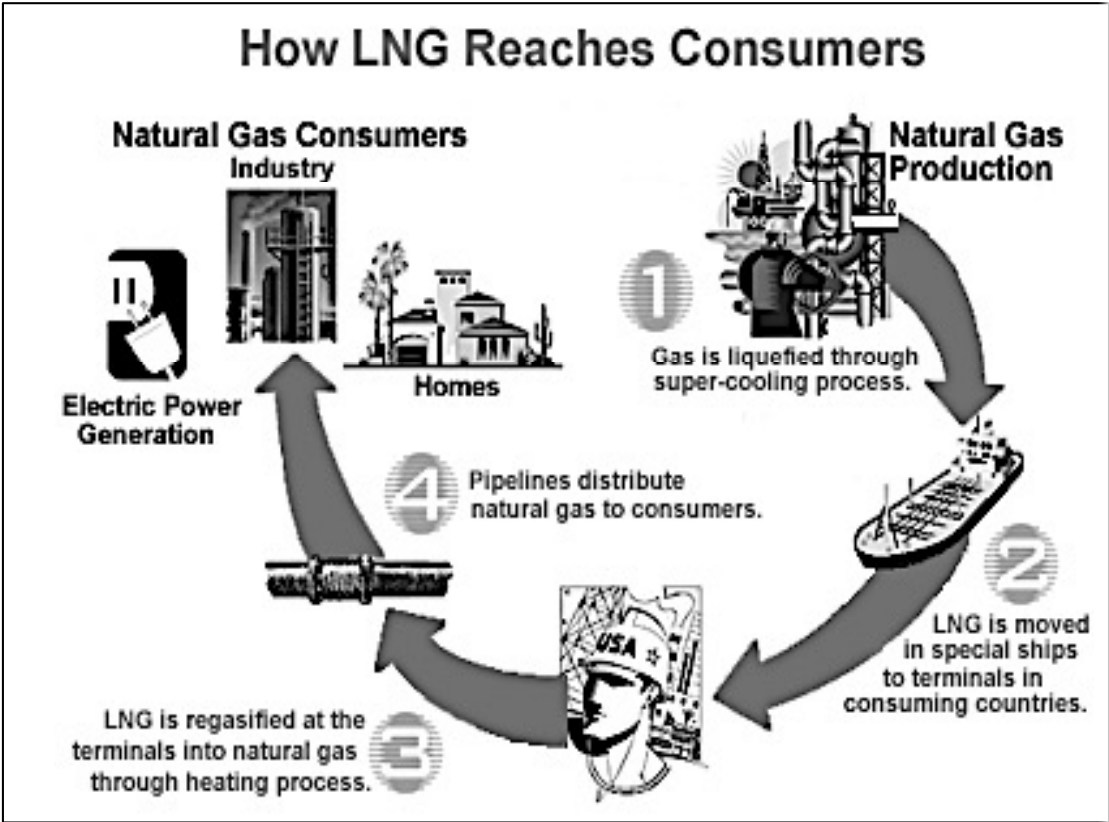
# **GAS-TO-POWER IN AFRICA**

Dr Rainer Nowak, Webber Wentzel

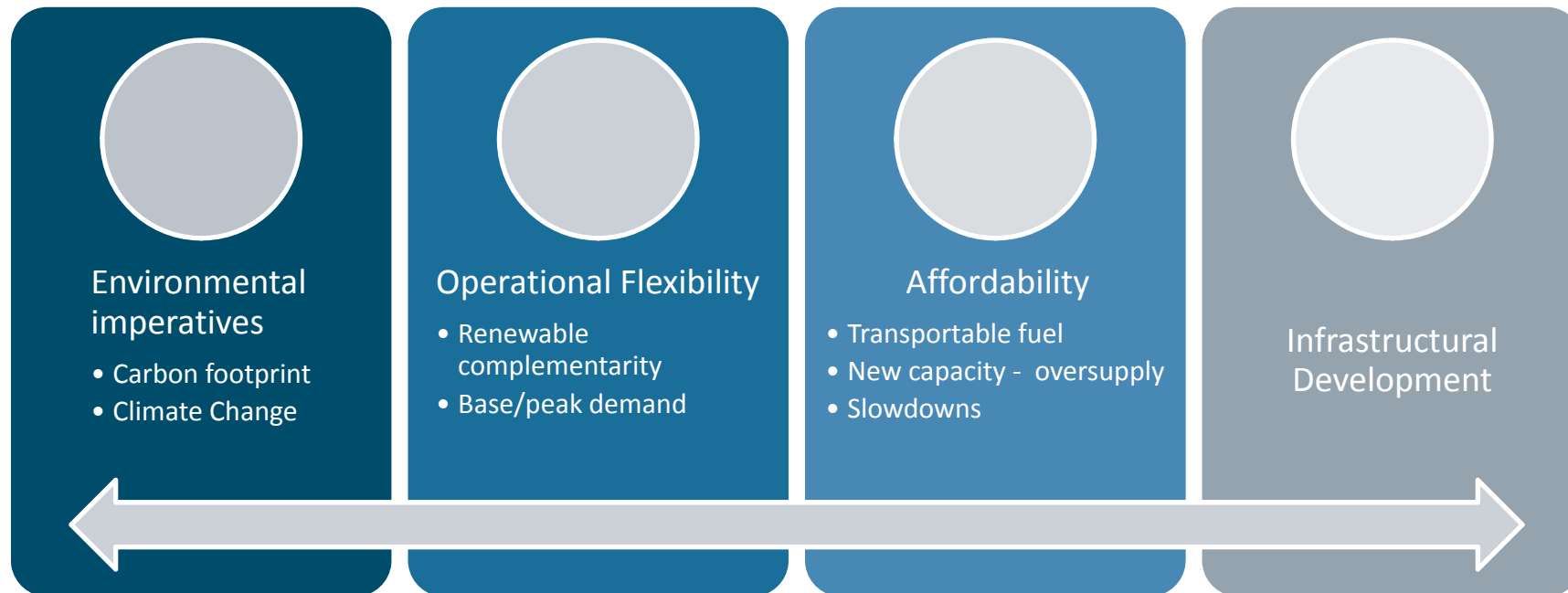
Prof Hanri Mostert, DST/NRF SARChI: Mineral Law in Africa, UCT



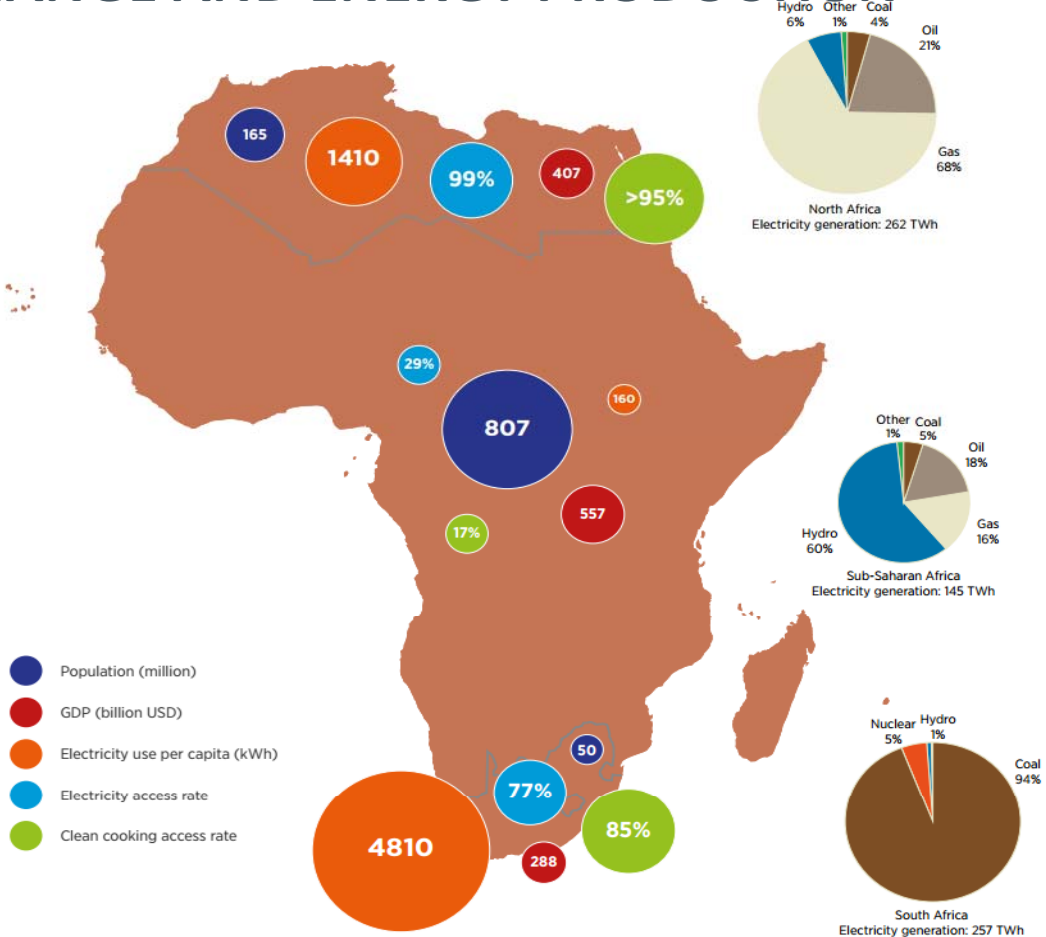
# LIQUID NATURAL GAS (LNG)



# WHY LNG IN AFRICA?



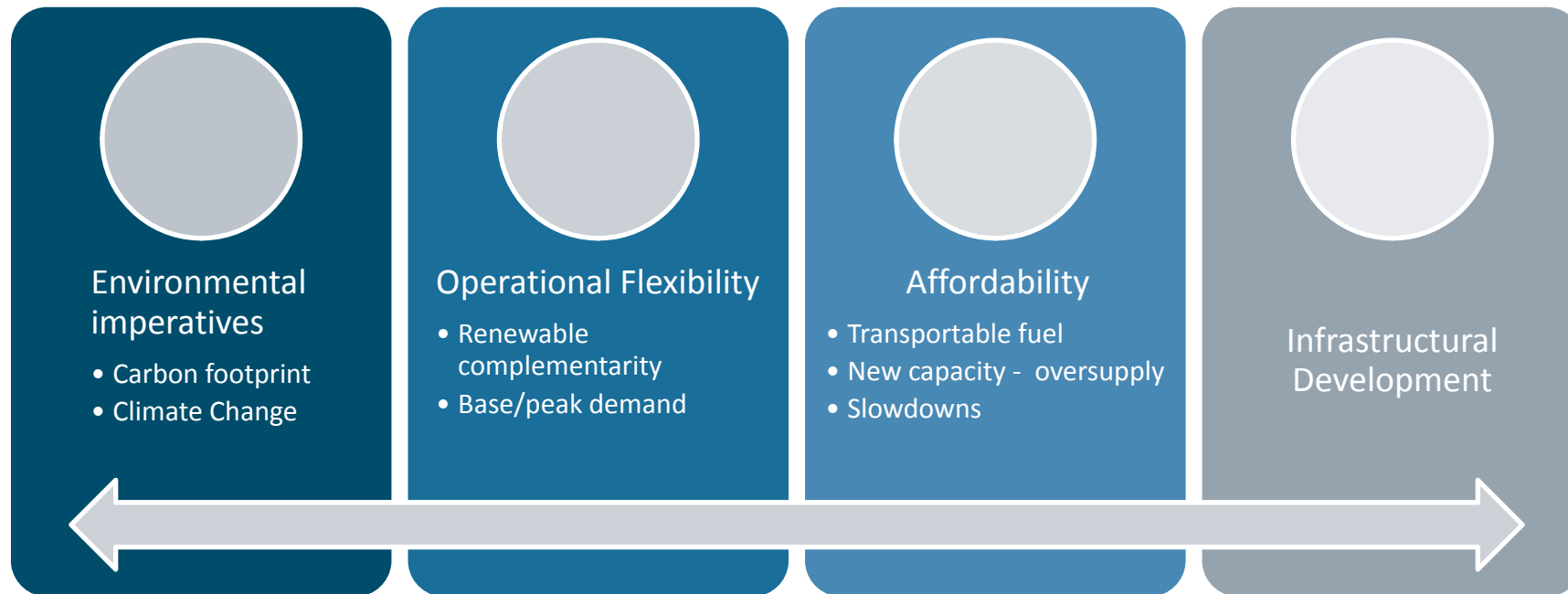
# CLIMATE CHANGE AND ENERGY PRODUCTION



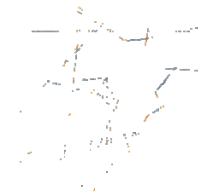
Source: IRENA analysis based on data from the International Energy Agency, the World Bank and the World Health Organization



# WHY LNG IN AFRICA?



# LNG TO POWER: SOUTH AFRICA



## Coega

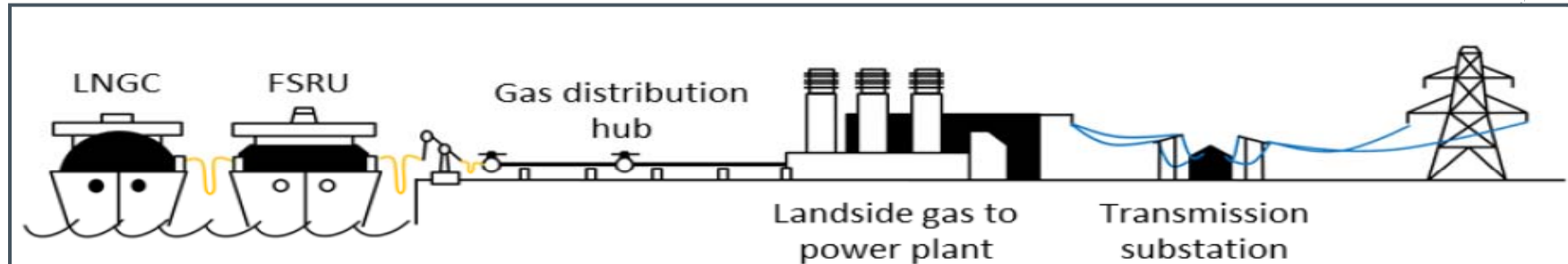


## Richards Bay



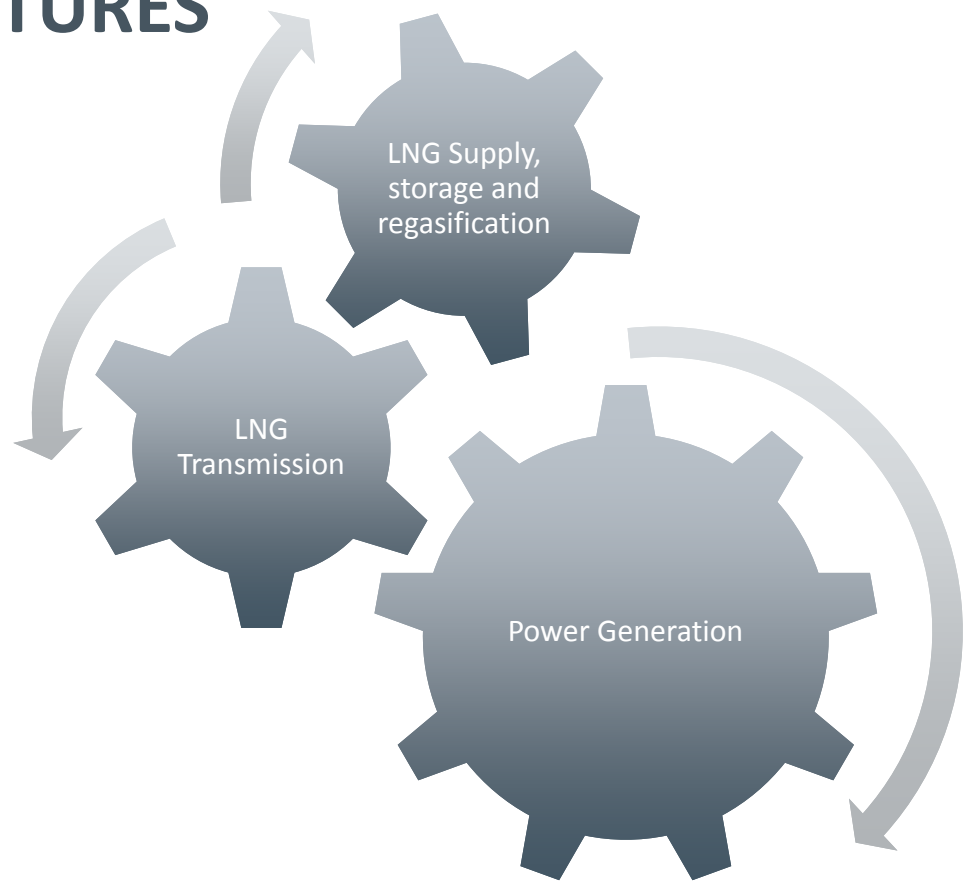
Sources: [naturalgasworld.com](http://naturalgasworld.com); [zululandobserver.co.za](http://zululandobserver.co.za)

# LNG TO POWER: PROJECT SCOPE



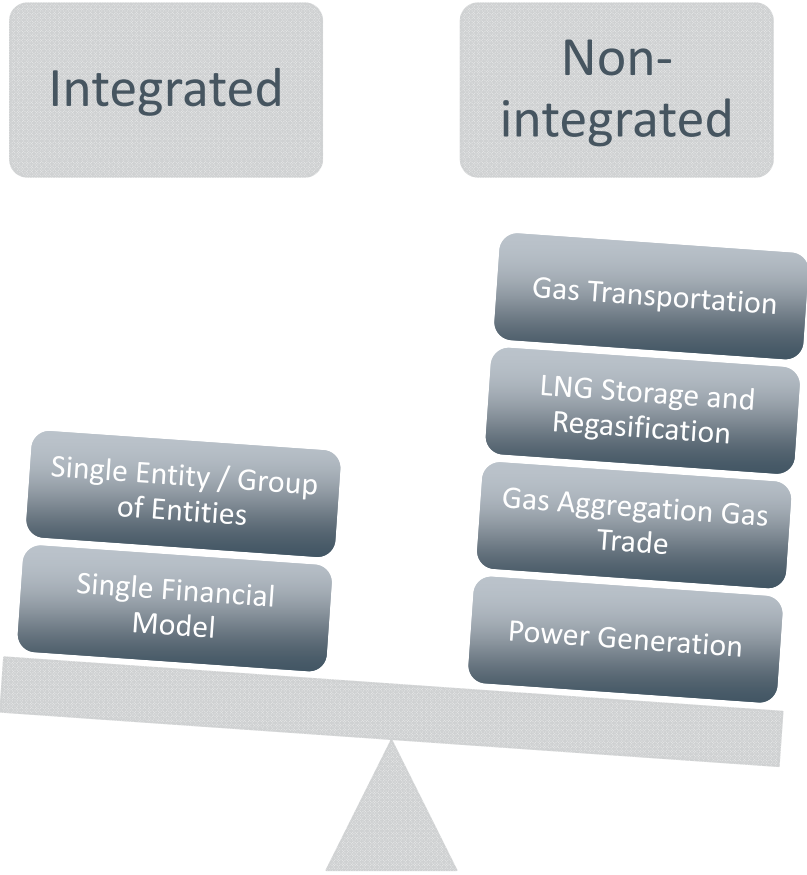
- LNG procurement and delivery
- LNG storage and regasification (FSRU v land-based terminal)
- Gas transmission distributing gas to power plant (third party access)
- Power plant, including the high voltage connection to the electrical grid

# PROJECT STRUCTURES





# LNG TO POWER: PROJECT STRUCTURES



# LNG TO POWER (SOUTH AFRICA'S IPP PROGRAMME)

## Overview

- **Objective:** 3 000 MW in two ports
- **Aim:** anchor gas demand for LNG
- Third Party Access

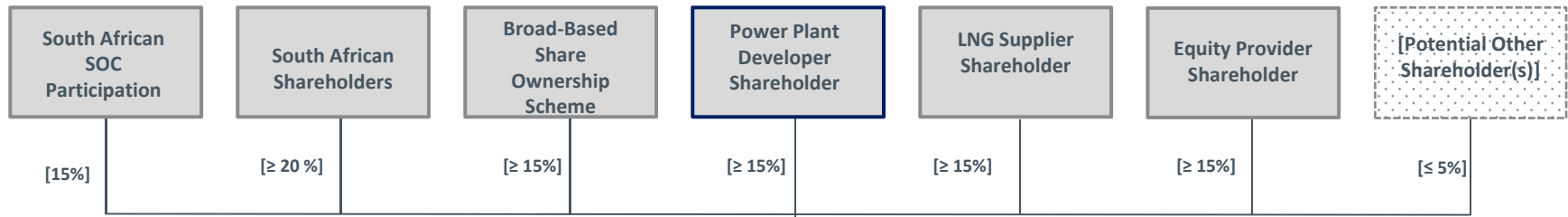
## Process: Successful Bidder

- Develop, finance, construct and operate power plant & LNG supply infrastructure
- Each project: separate RFQ → specific RFP

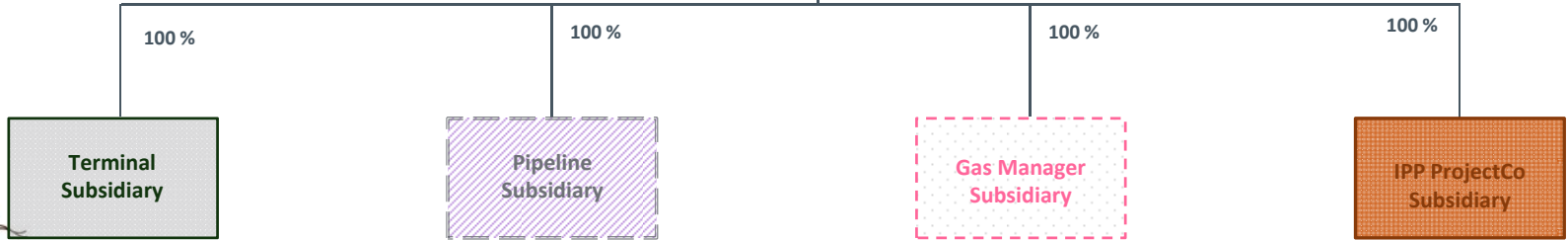


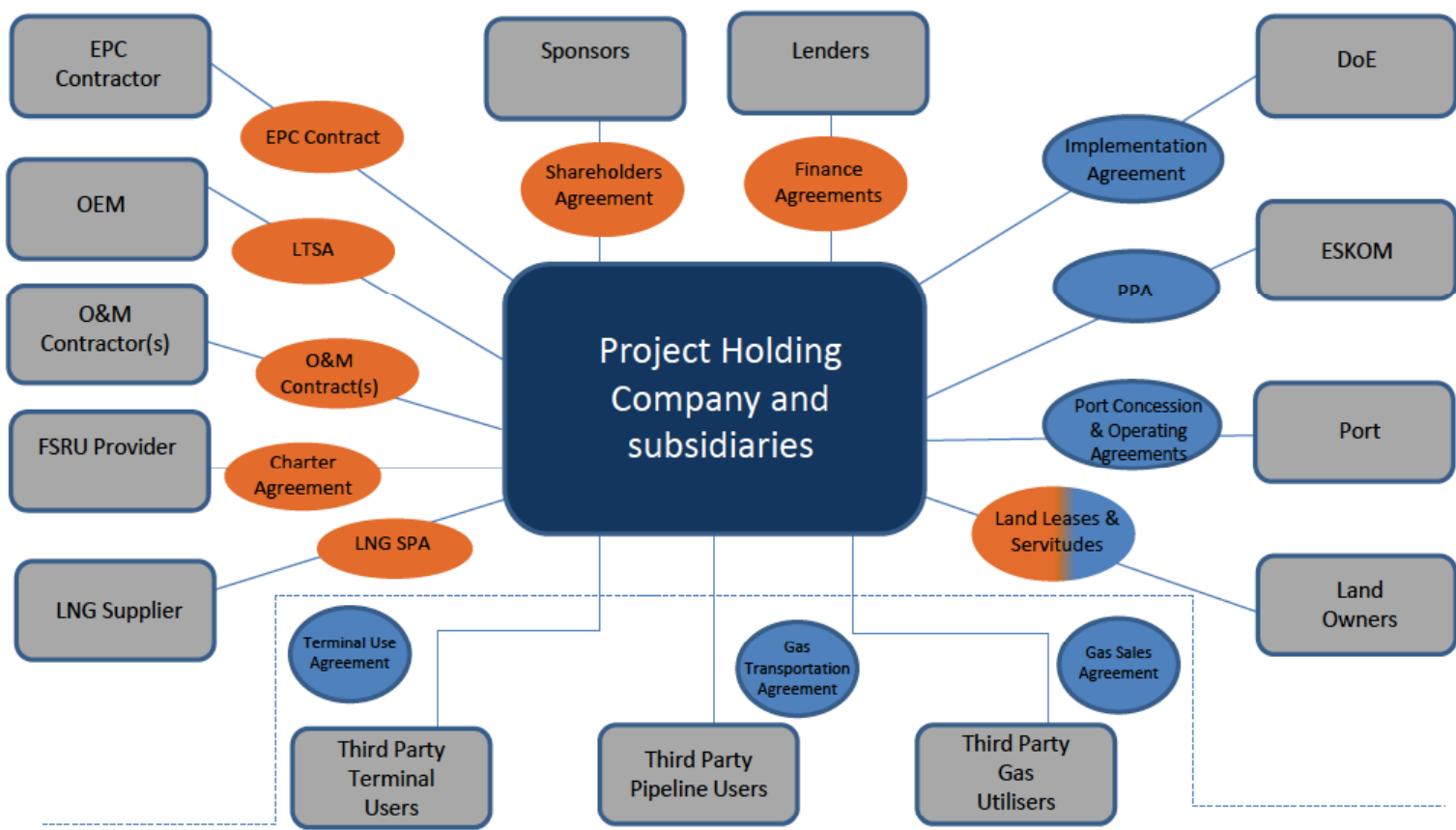
← Total South African participation →

← South African Entity Participation →



**Project Holding Company**





# STATUS OF GAS IPP PROCUREMENT PROGRAMME



Carrier (Capacity Determined)	RFP/RFQ	Bid Submission	Bid Announcement	Financial Close	COD
LNG-to-Power Imported Gas (3 000MW)	RFQ- Q2/2017 RFP- Q1/2018	RFQ -Q4/2017 RFP-Q4/2018	RFQ - Q1/2018 RFP- Q2 /2019	2020	First Power 2023

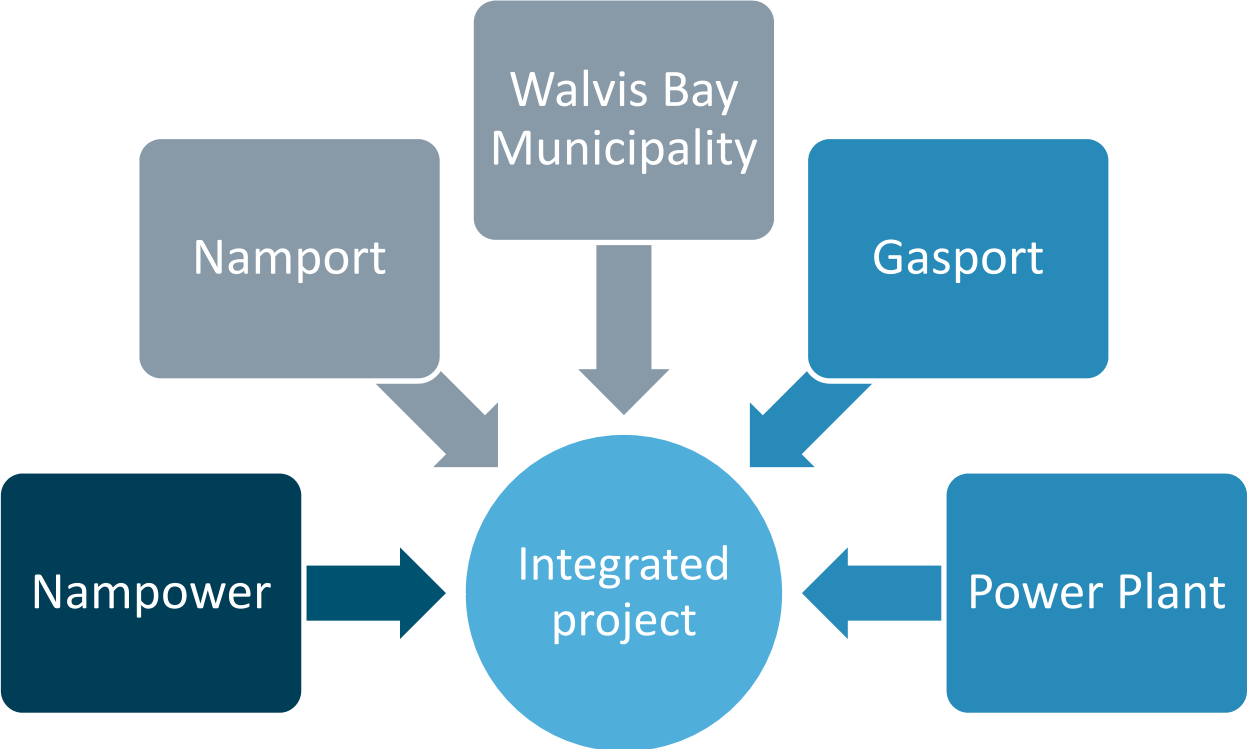
# LNG TO POWER: NAMIBIA (XARIS, WALVIS BAY)



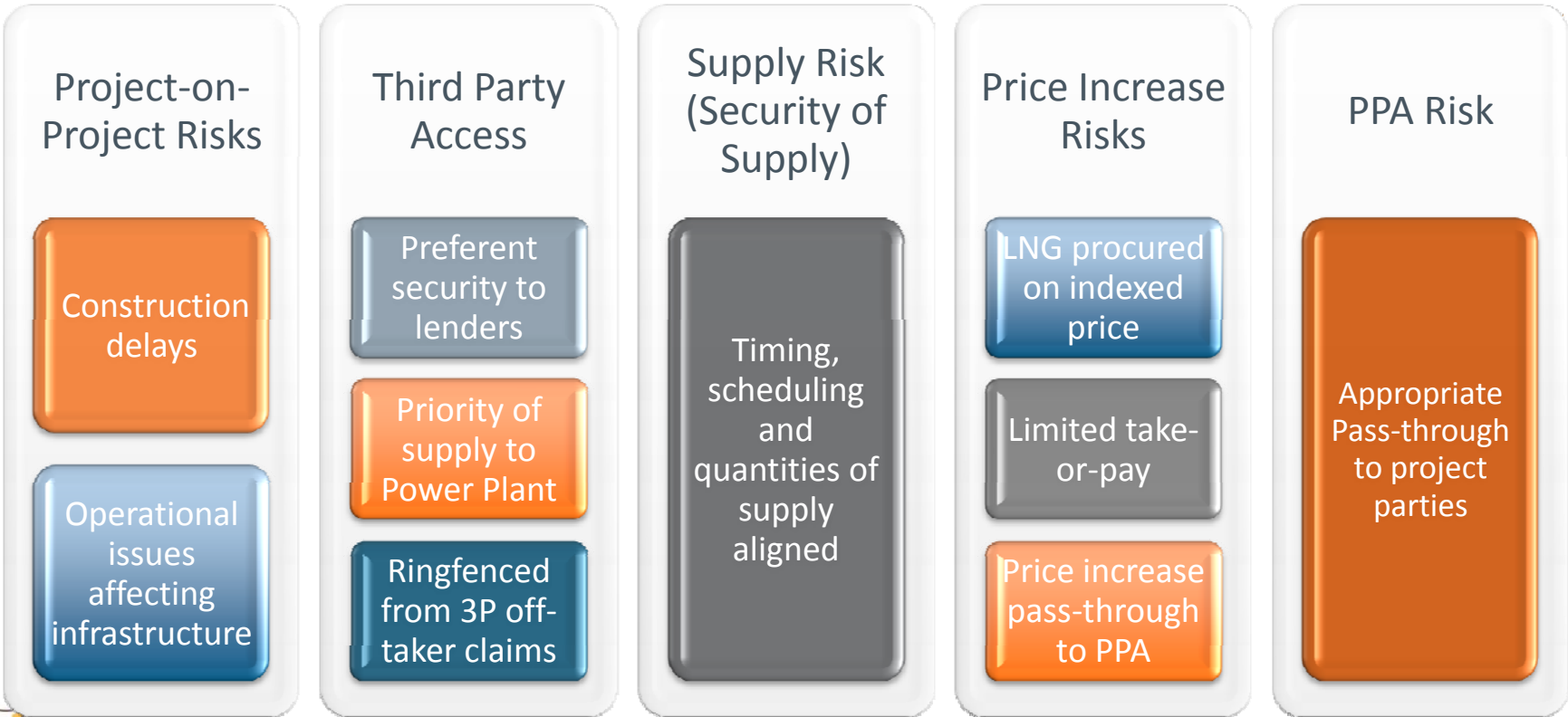
- 250 MW
- FSRU (stores & regasifies) → Pipeline (transports) → Power Plant



# LNG TO POWER: NAMIBIA (XARIS, WALVIS BAY)

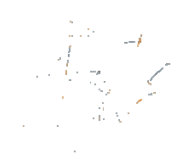


# INTEGRATED PROJECT: RISK MANAGEMENT





# THANK YOU



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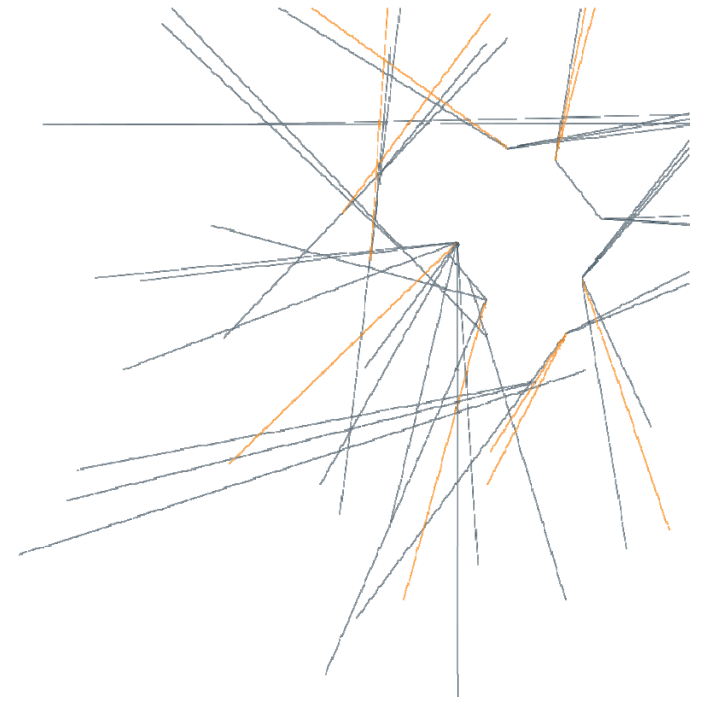
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**JOHANNESBURG**

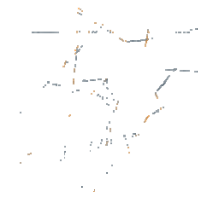
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# HOW IT WORKS



Source: GasEntec  
on  
slidesharecdn.com



Source:  
[worldmaritimenews.com](http://worldmaritimenews.com)

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