



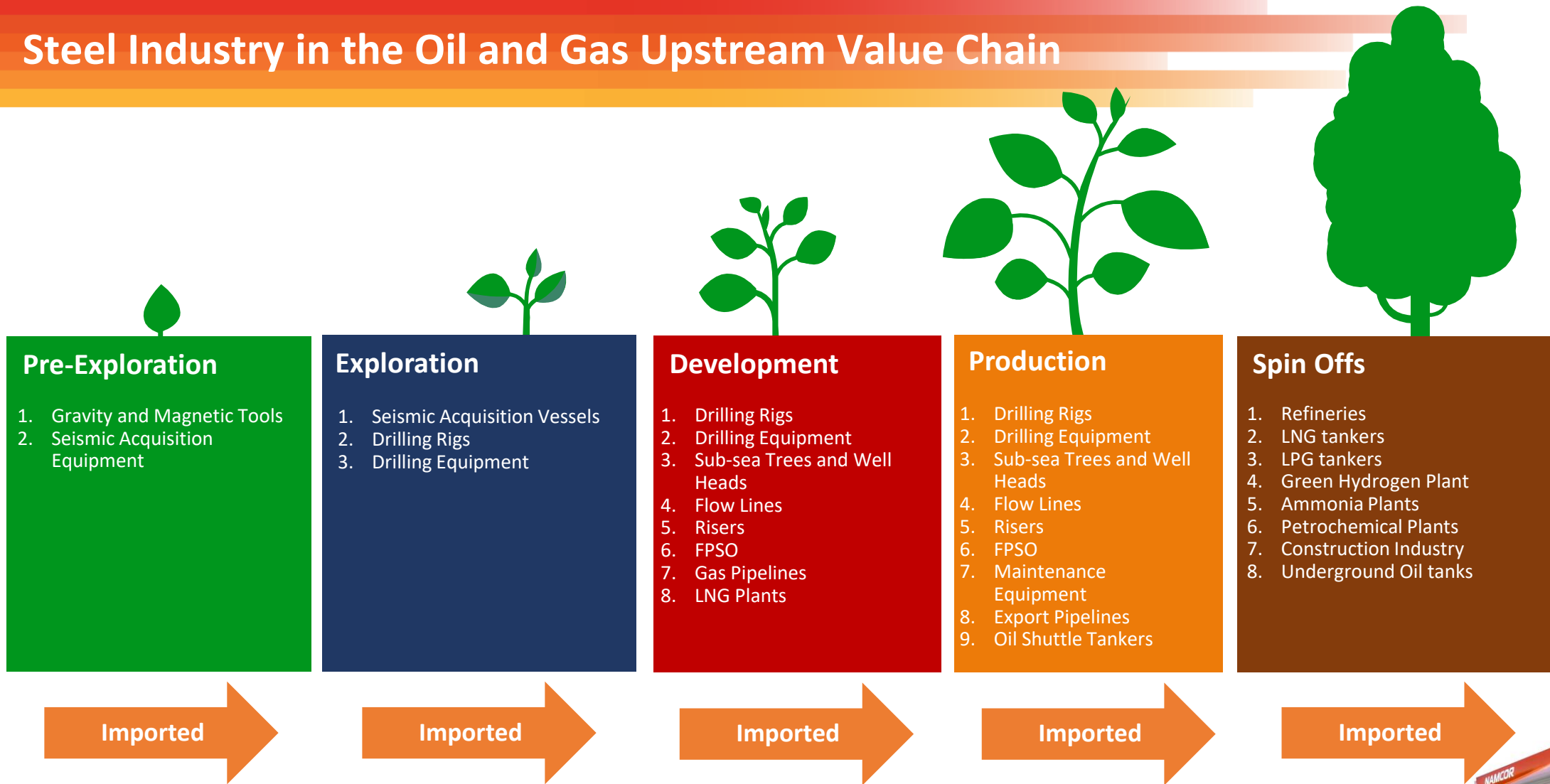
# Discoveries as a Catalyst for a Namibian Steel Industry - 2023

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# Steel Industry in the Oil and Gas Upstream Value Chain



# Steel Industry in the Oil and Gas Upstream Value Chain



## Pre-Exploration

1. Seismic Acquisition Equipment



## Exploration

1. Seismic Acquisition Vessels





# Steel Industry in the Oil and Gas Upstream Value Chain



## Exploration

1. Drilling Rigs
2. Drill Strings

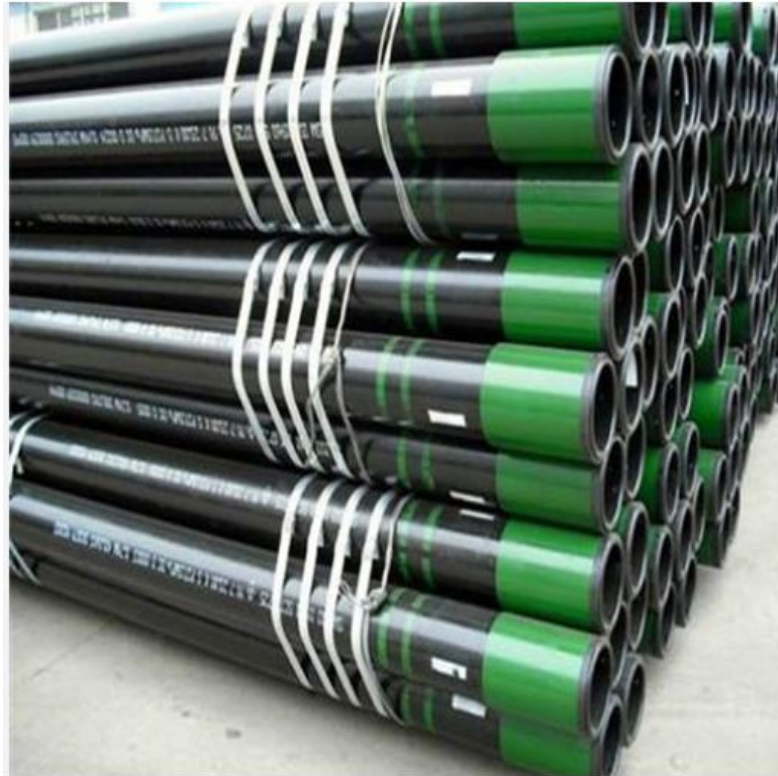


# Steel Industry in the Oil and Gas Upstream Value Chain



## Exploration

1. Drilling Rigs
2. Casing





# Steel Industry in the Oil and Gas Upstream Value Chain



## Exploration

1. Drilling Rigs
2. BHA; Drill Bits



# Steel Industry in the Oil and Gas Upstream Value Chain



## Exploration

1. Drilling Rigs
2. Mud pumps and Tanks
3. Shale Shakers





# Steel Industry in the Oil and Gas Upstream Value Chain



## Exploration

1. Drilling Rigs
2. Cement System
3. Waste Management Systems





# Steel Industry in the Oil and Gas Upstream Value Chain



## Development

1. FPSO

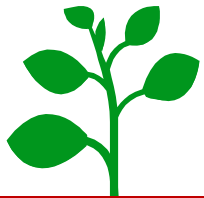


## Production

1. FPSO



# Steel Industry in the Oil and Gas Upstream Value Chain



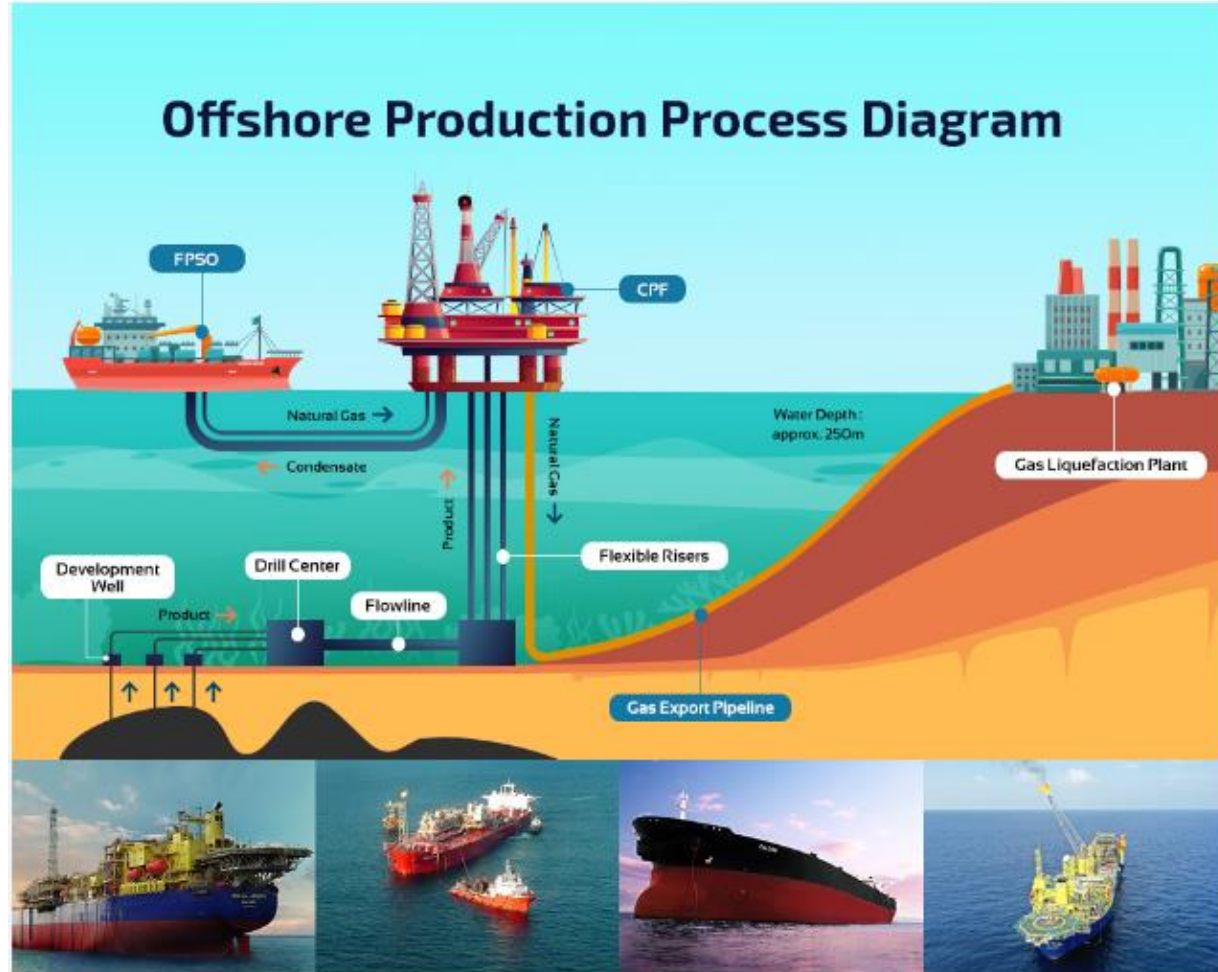
## Development

1. Drilling Rigs
2. Drilling Equipment
3. Sub-sea Trees and Well Heads
4. Flow Lines
5. Risers
6. FPSO
7. Gas Pipelines
8. LNG Plants



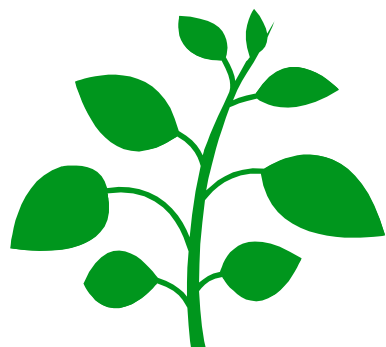
## Production

1. Drilling Rigs
2. Drilling Equipment
3. Sub-sea Trees and Well Heads
4. Flow Lines
5. Risers
6. FPSO
7. Maintenance Equipment
8. Export Pipelines
9. Oil Shuttle Tankers





# Steel Industry in the Oil and Gas Upstream Value Chain

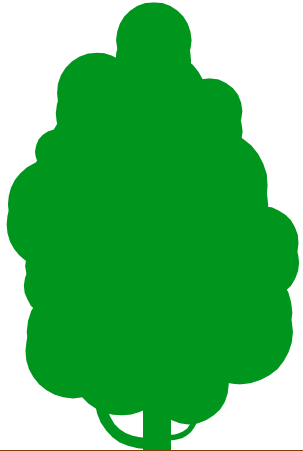


## Production

1. Export Pipelines (Gas)
2. Oil Shuttle Tankers



# Steel Industry in the Oil and Gas Upstream Value Chain



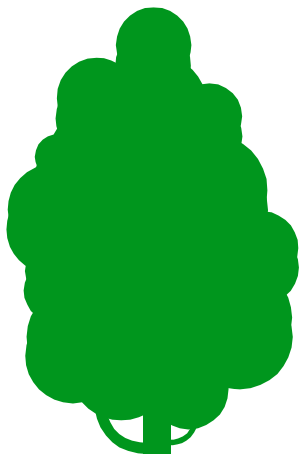
## Spin Offs

### I. Refineries





# Steel Industry in the Oil and Gas Upstream Value Chain

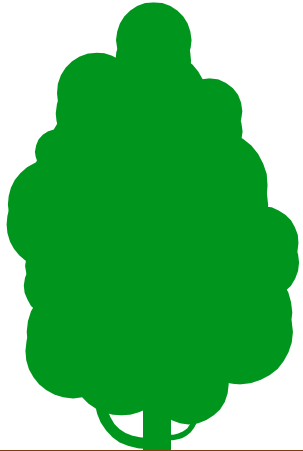


## Spin Offs

1. LNG Plant
2. LNG Tankers



# Steel Industry in the Oil and Gas Upstream Value Chain



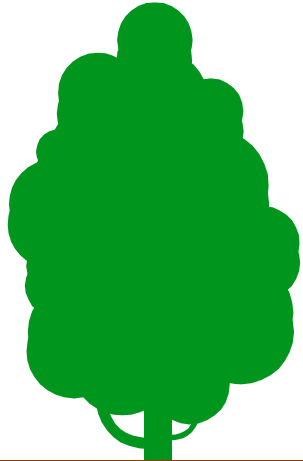
## Spin Offs

- I. Oil terminal



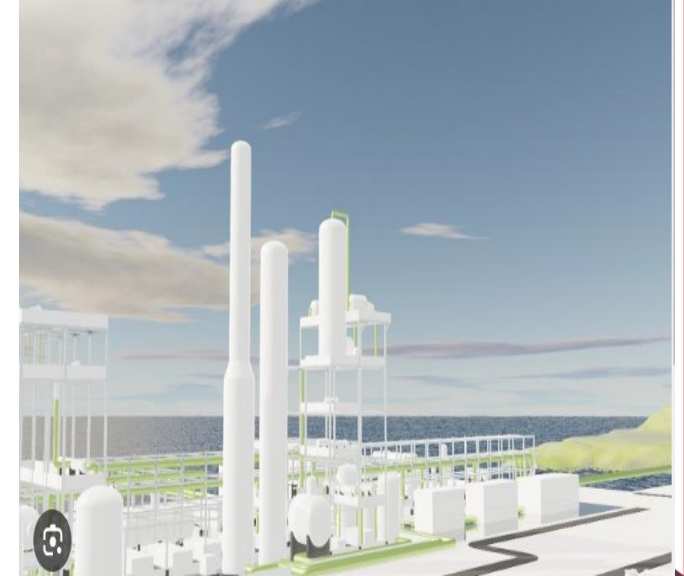


# Steel Industry in the Oil and Gas Upstream Value Chain

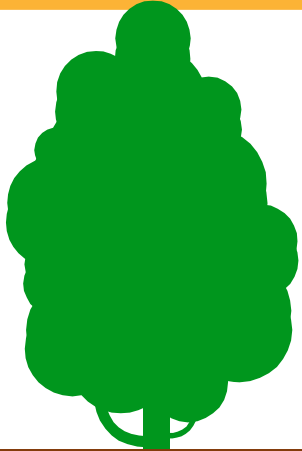


## Spin Offs

1. LPG plants
2. Green Hydrogen Tank
3. Green Ammonia Tank



# Steel Industry in the Oil and Gas Upstream Value Chain



## Spin Offs

1. Construction Steel
2. Underground Steel Tanks





# Business Case for a Steel Industry



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## Iron Ore – Mining Sites & Transportation



## Land – Site & Access to Export Market



## Water – Sources & Purification



## Technology & Automation



## Labour & Skills – Local vs. Expatriates



## Electricity – Capacity & New Power Plants (Renewables vs. Gas)



## Investment – FDI vs. Local



## Fiscal Terms & Incentives



## Market Forces – Commodity Demand, Supply, Prices, Volatility



## Steel Plant in Namibia



## Financial Modelling – NCF, Payout, NPV, IRR, P/I

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Initial Investment	(1,000)	(1,000)	(1,000)	(1,000)	(1,000)	(1,000)	(1,000)	(1,000)	(1,000)	(1,000)	(1,000)	(1,000)	(1,000)	(1,000)
Operating Income	150	180	210	240	270	300	330	360	390	420	450	480	510	540
Operating Expenses	(80)	(90)	(100)	(110)	(120)	(130)	(140)	(150)	(160)	(170)	(180)	(190)	(200)	(210)
Net Cash Flow	70	90	110	130	150	170	190	210	230	250	270	290	310	330
NPV	100	120	140	160	180	200	220	240	260	280	300	320	340	360
IRR	15%	16%	17%	18%	19%	20%	21%	22%	23%	24%	25%	26%	27%	28%
Payout	1.5	1.8	2.1	2.4	2.7	3.0	3.3	3.6	3.9	4.2	4.5	4.8	5.1	5.4

## Oil Industry Products – Drilling Strings, Casing Pipes, Wireline Parts, Drill Bits Pipes, Export pipelines, Flowlines, Risers, Storage Cylinders and Tanks, Delivery Cylinders and Tanks



# What's in it for the you?

- Direct Employment
- Opportunity for investment in the Steel industry
- Opportunities in the supply chains – Iron Ore, Water Purification and Distribution
- Energy Supply
- Research and Development in Processing and Automation







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# **THANK YOU**