

FPSO Forum



ENERGY. COMMITTED.

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■ Creating value for all stakeholders

ENERGY TRANSITION COMPANY

**REDUCE COSTS AND EMISSIONS
FROM O&G PRODUCTION**

**DEVELOP COMPETITIVE
RENEWABLE ENERGY LIFECYCLE SOLUTIONS**

VALUE PLATFORMS

OCEAN INFRASTRUCTURE



Strong backlog



On-time delivery &
reliable operations



Emissions reduction

TRANSITION









NEW ENERGIES



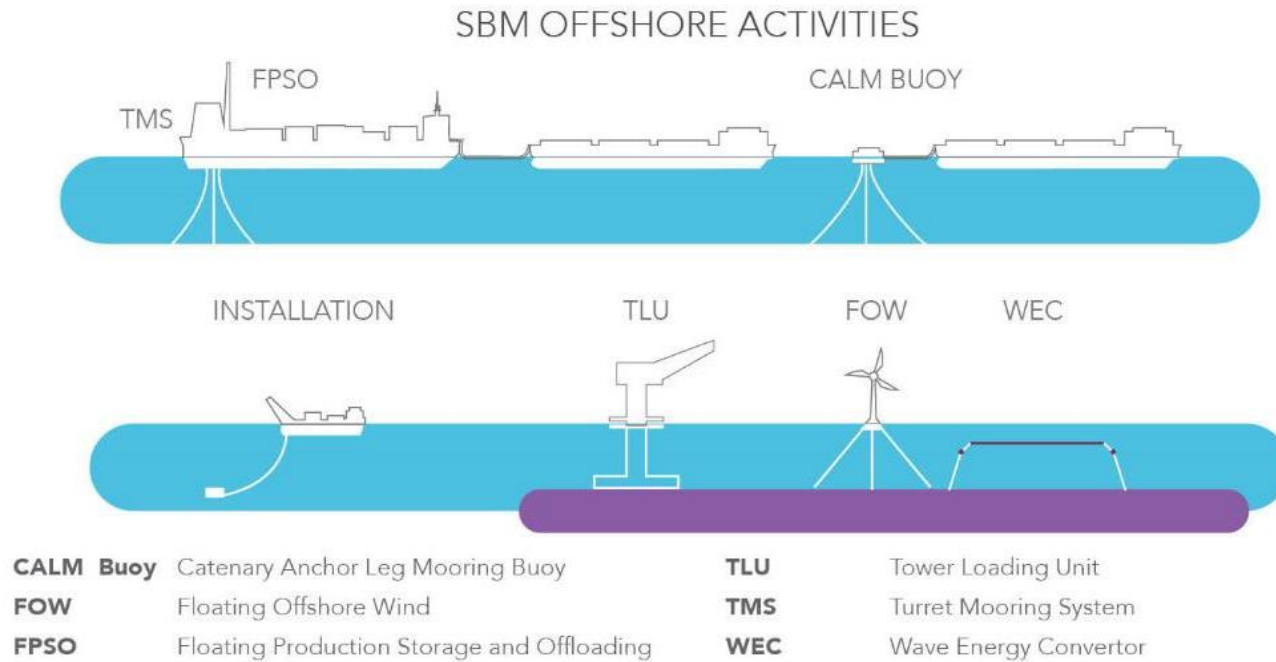
Digital
services



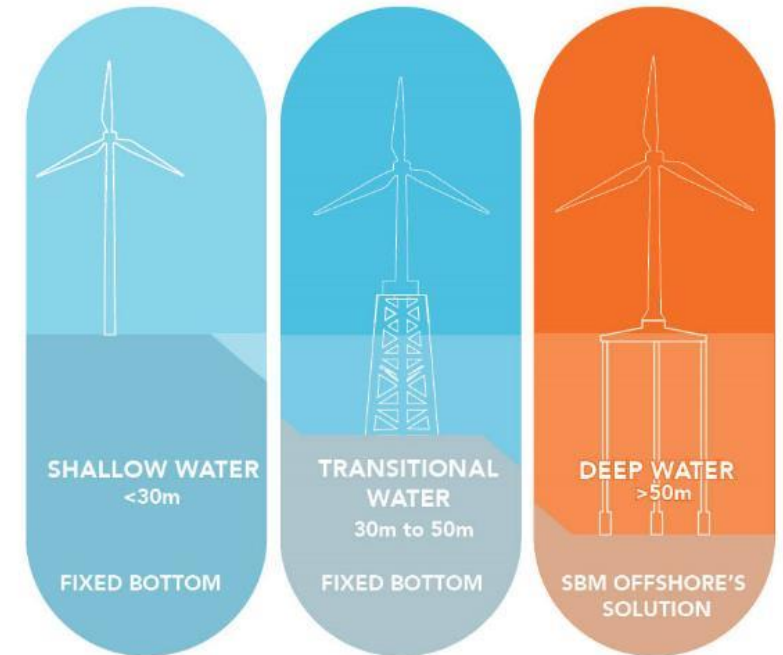
Our Heritage

<div>1959</div> <div></div> <div>CALM Buoy</div>	<div>1960</div> <div></div> <div>Drilling Jack-up</div>	<div>1972</div> <div></div> <div>DP Drillship</div>	<div>1973</div> <div></div> <div>SBS Mooring System</div>	<div>1977</div> <div></div> <div>SALS Mooring System</div>	<div>1981</div> <div></div> <div>Leased FPSO</div>	<div>1985</div> <div></div> <div>Jacket Soft Yoke</div>	<div>1985</div> <div></div> <div>External Turret</div>	<div>1986</div> <div></div> <div>Disconnectable Turret</div>	<div>1993</div> <div></div> <div>Internal Turret</div>	
<div>1996</div> <div></div> <div>Turnkey North Sea FPSO</div>	<div>1999</div> <div></div> <div>Deepwater CALM Buoy</div>	<div>2002</div> <div></div> <div>Delivery of the first Generic FPSO</div>	<div>2003</div> <div></div> <div>Delivery of the largest Seastar™ TLP</div>	<div>2005</div> <div></div> <div>New Build LPG FPSO</div>	<div>2006</div> <div></div> <div>Deepest Semi-Submersible in the GoM</div>	<div>2006</div> <div></div> <div>Offshore Offloading Line : Trelline™ Installed</div>	<div>2007</div> <div></div> <div>GAP™ mid water Fluid Transfer System</div>	<div>2007</div> <div></div> <div>Largest Internal Turret with 75 risers</div>	<div>2009</div> <div></div> <div>First turret-moored FPSO using steel risers</div>	<div>2011</div> <div></div> <div>COOL™ LNG Transfer System</div>
<div>2012</div> <div></div> <div>HV-AC Electric Swivel rated at 65KV and 150 MW</div>	<div>2013</div> <div></div> <div>VHP Fluid Swivel rated at over 800 bar</div>	<div>2013</div> <div></div> <div>1st Generation 3 FPSO (Paraty)</div>	<div>2015</div> <div></div> <div>ARCA™ Mooring System</div>	<div>2016</div> <div></div> <div>GoM Disconnectable Turret FPSO</div>	<div>2017</div> <div></div> <div>FAST4WARD NEXT GENERATION FPSO</div>	<div>2018</div> <div></div> <div>Wind Floater design approved in principal ABS</div>	<div>2019</div> <div></div> <div>S3® Wave Energy Converter registered trademark</div>	<div>2020</div> <div></div> <div>1st completed Fast4Ward® hull</div>	<div>2021</div> <div></div> <div>Launch of emissionZERO™ program</div>	<div>2022</div> <div></div> <div>Launch of Float4Wind – Wind Floater</div>

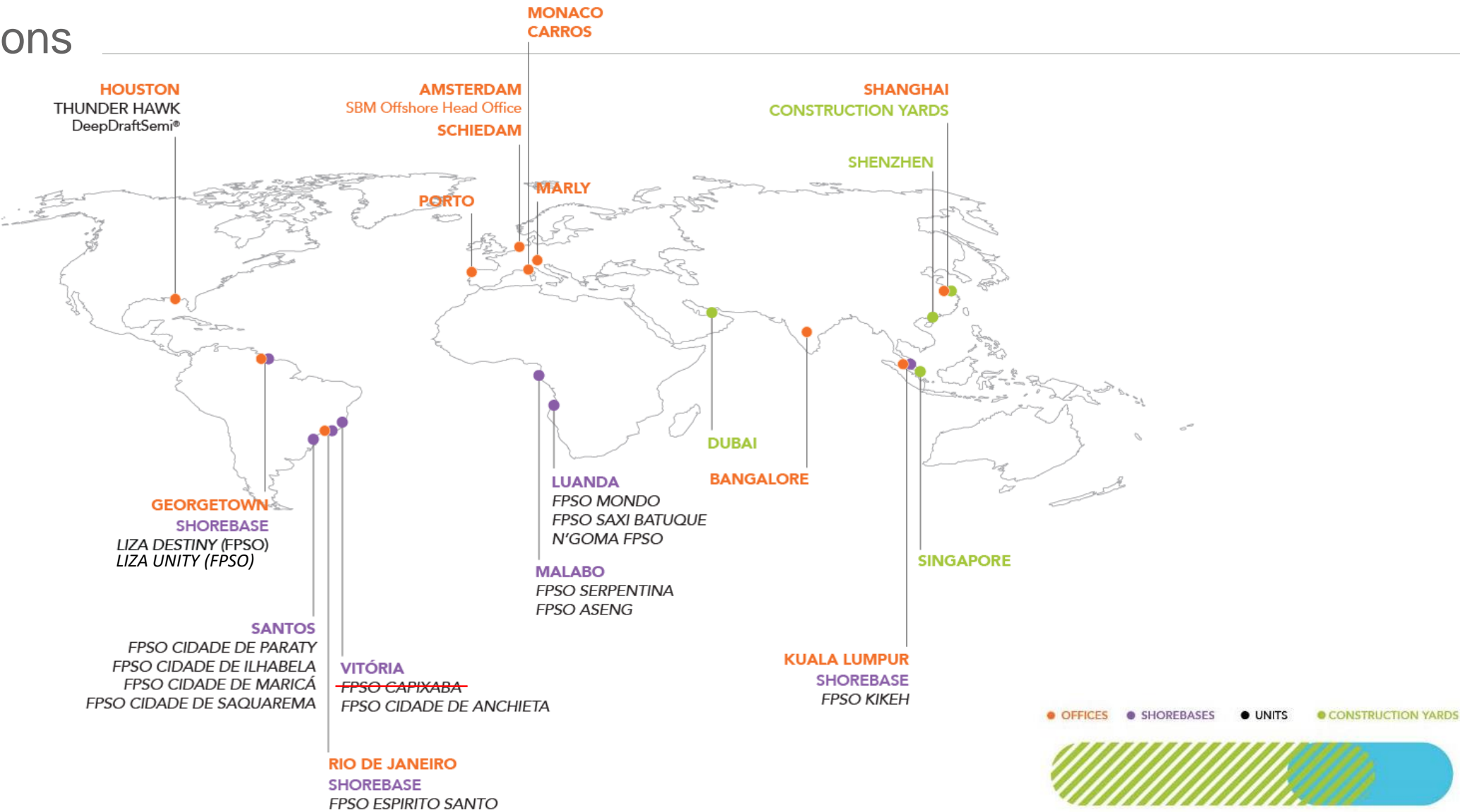
SBM Offshore Activities












SEGMENTATION OF OFFSHORE WIND ENERGY SOLUTIONS



Our locations



Steady progress on execution

			Percentage of completion ¹	Expected First Oil
	FPSO <i>Sepetiba</i>		> 75%	2023
	FPSO <i>Prosperity</i>		> 50% < 75%	2023
	FPSO <i>Almirante Tamandaré</i>		> 25% < 50%	2024
	FPSO <i>Alexandre de Gusmão</i>		> 25% < 50%	2025
	FPSO <i>ONE GUYANA</i>		< 25%	2025
	Multi-Purpose Floater 7		-	

1 MILLION BARRELS PER DAY

Additional production capacity

STRATEGIC MITIGATING MEASURES

Against inflation and COVID-19 impacts

ROBUST PORTFOLIO

~40% weighted average portfolio percentage of completion

NEW HULL ORDERED

Supporting the Company's view of the market

(1) As of 30 June 2022

■ On track to deliver EmissionZERO® FPSO, market ready for 2025

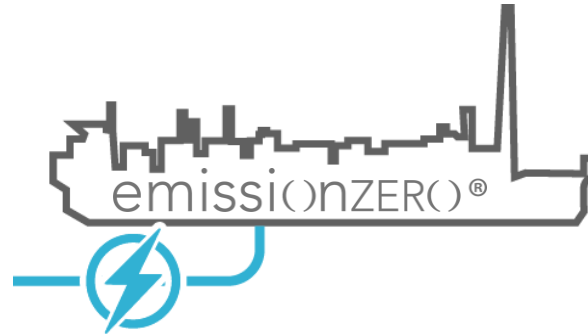
MODIFY



15-40% reduction potential

Implement available
carbon reduction solutions

ELECTRIFY



40-80% reduction potential

Increase electrification and
develop carbon capture technology

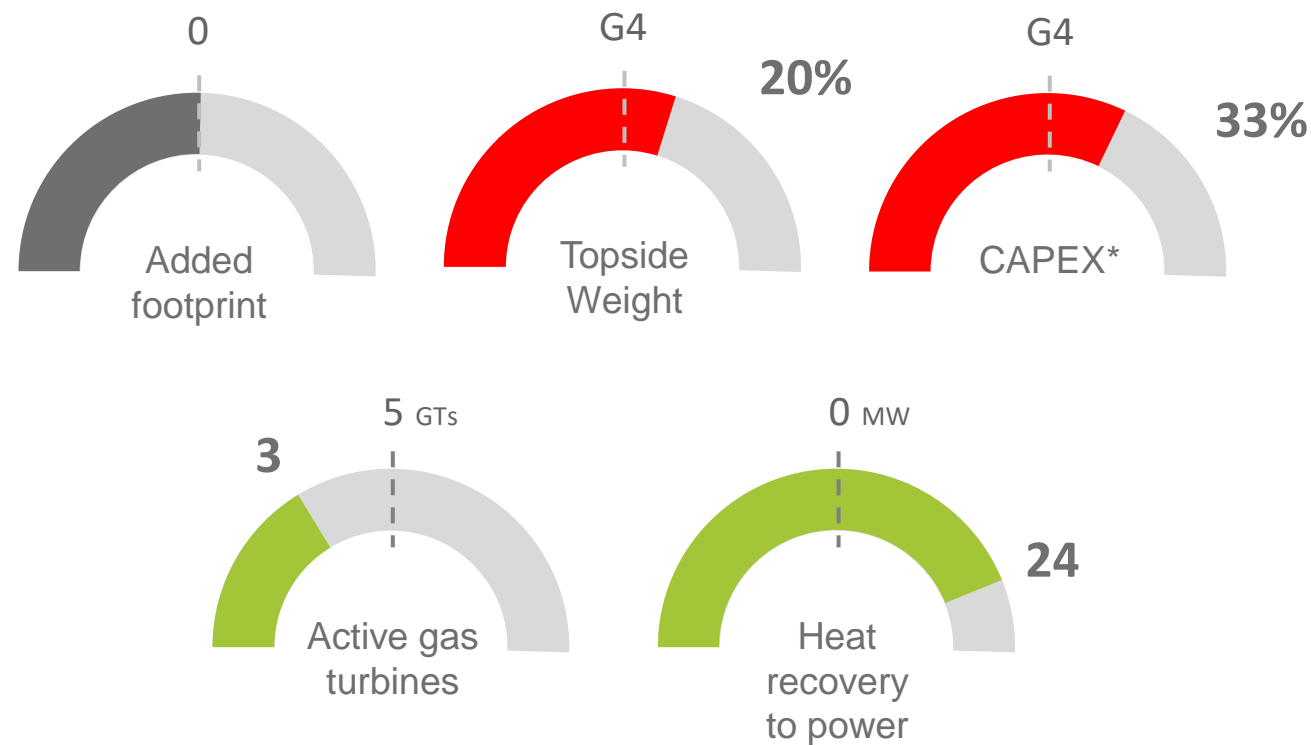
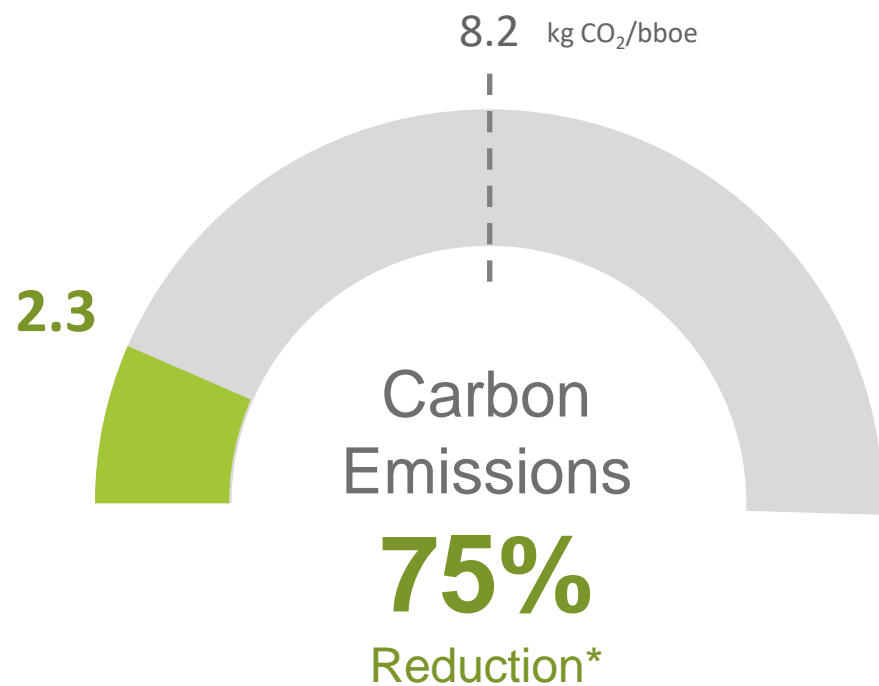
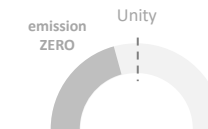
NULLIFY



80-100% reduction potential

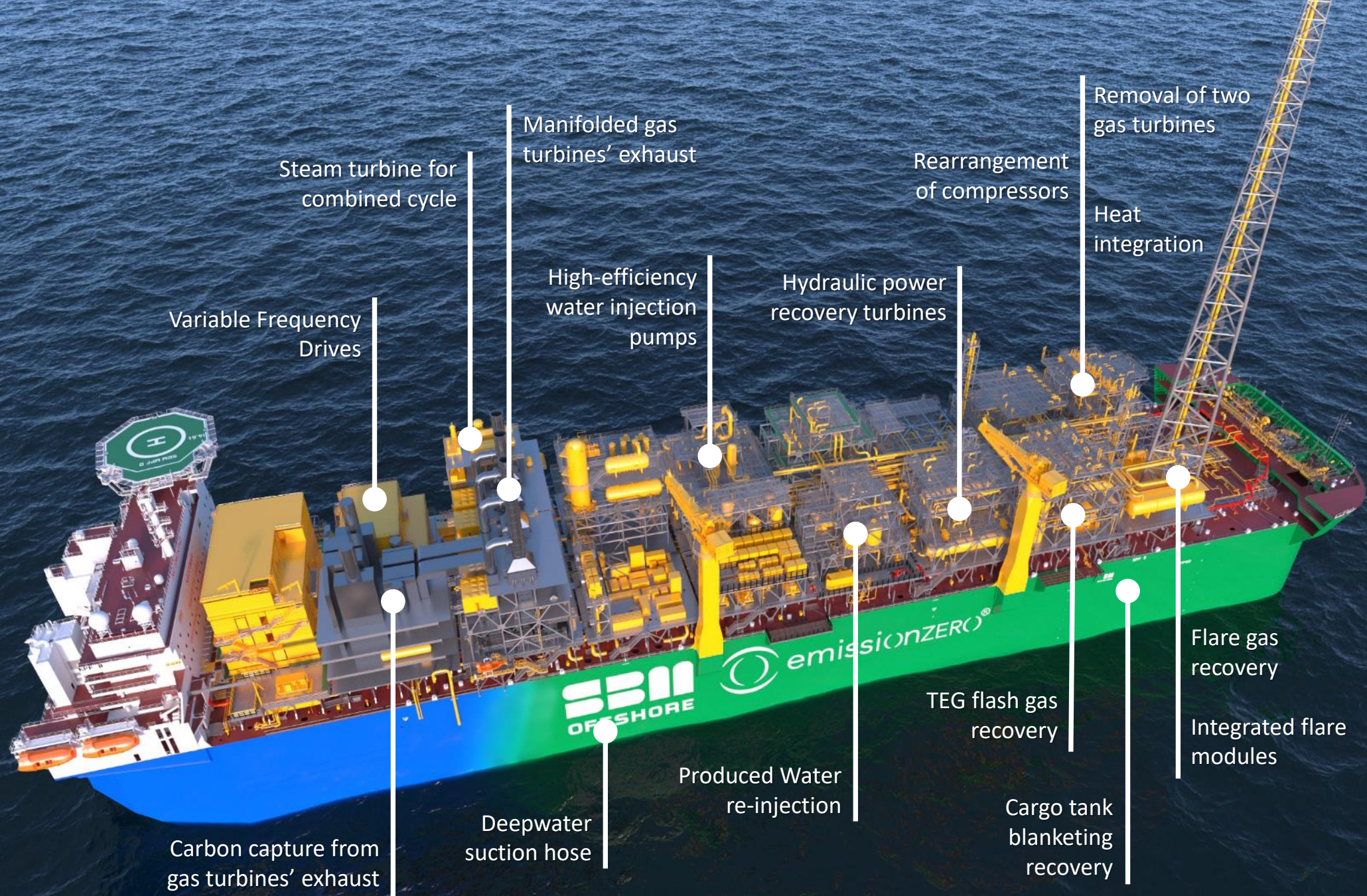
Nullify residual emissions
and implement new power
generation technologies

■ emissionZERO v1 concept in comparison a typical G4 FPSO



*Considering year 3 (peak oil), which is comparable with unity data

*Rough CAPEX estimate based on original cost estimate prepared for Unity proposal and excluding hull changes. Includes overhead, profit, contingency and special costs





Combined Cycle Gas Turbines in Powergen

- Simple cycle GTs typical peak efficiencies of 35-40%
- Combined cycle GTs typical peak efficiencies of 50-60%
- Reduction of fuel gas demand in CCGT by around 25%

Equipment added

4x 33% LM-2500+G4 gas turbines

One OTSG for each gas turbine

Single steam turbine for 3 OTSGs

Available power

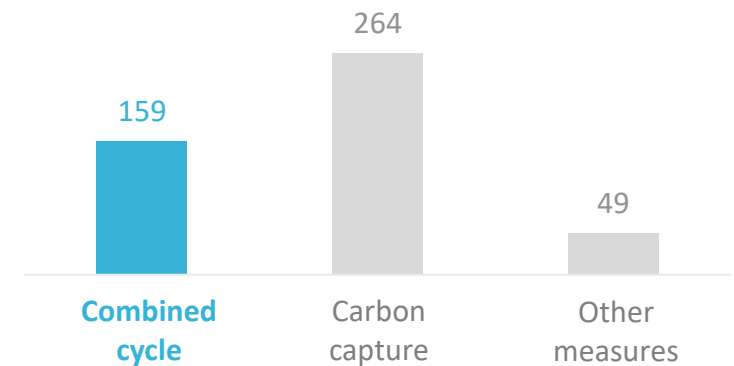
87.0 MW ⁽¹⁾

25.8 MW ⁽²⁾

Gas turbine load is 95.7%

112.8 MW

Emission reduction
contribution to the
emissionZERO concept
(CO₂ kTPA reduction)





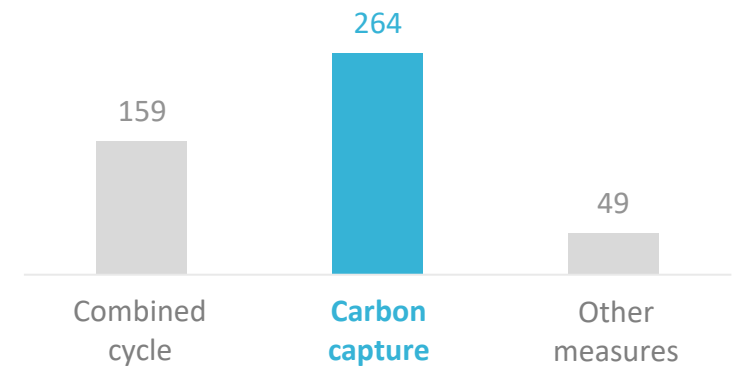
Carbon Capture

- CC modules capturing CO₂ from GT exhaust
- Assumption that captured CO₂ can be re-injected into reservoir

Total CO₂ captured: 264,000 TPA

Heating Duty	10.5 MWt per train
Cooling duty	25 MWt per train
Fan electrical power	0.5 MW per train

Emission reduction
contribution to the
emissionZERO concept
(CO₂ kTPA reduction)





Other measures

Emissions recovery

- Flare gas recovery
- Cargo tank blanketing
- TEG offgas recovery

Energy recovery

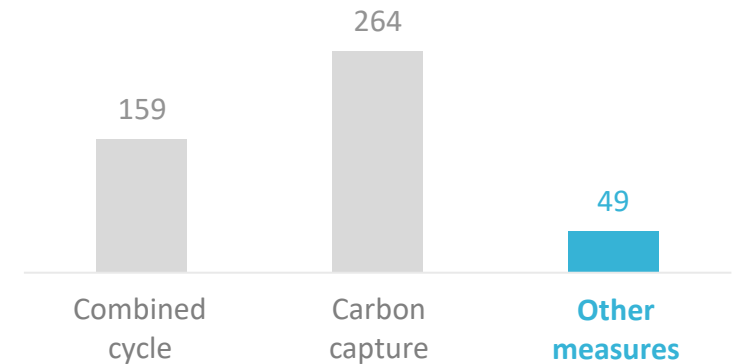
- Hydraulic power recovery turbines
- Heat integration

Energy efficiency

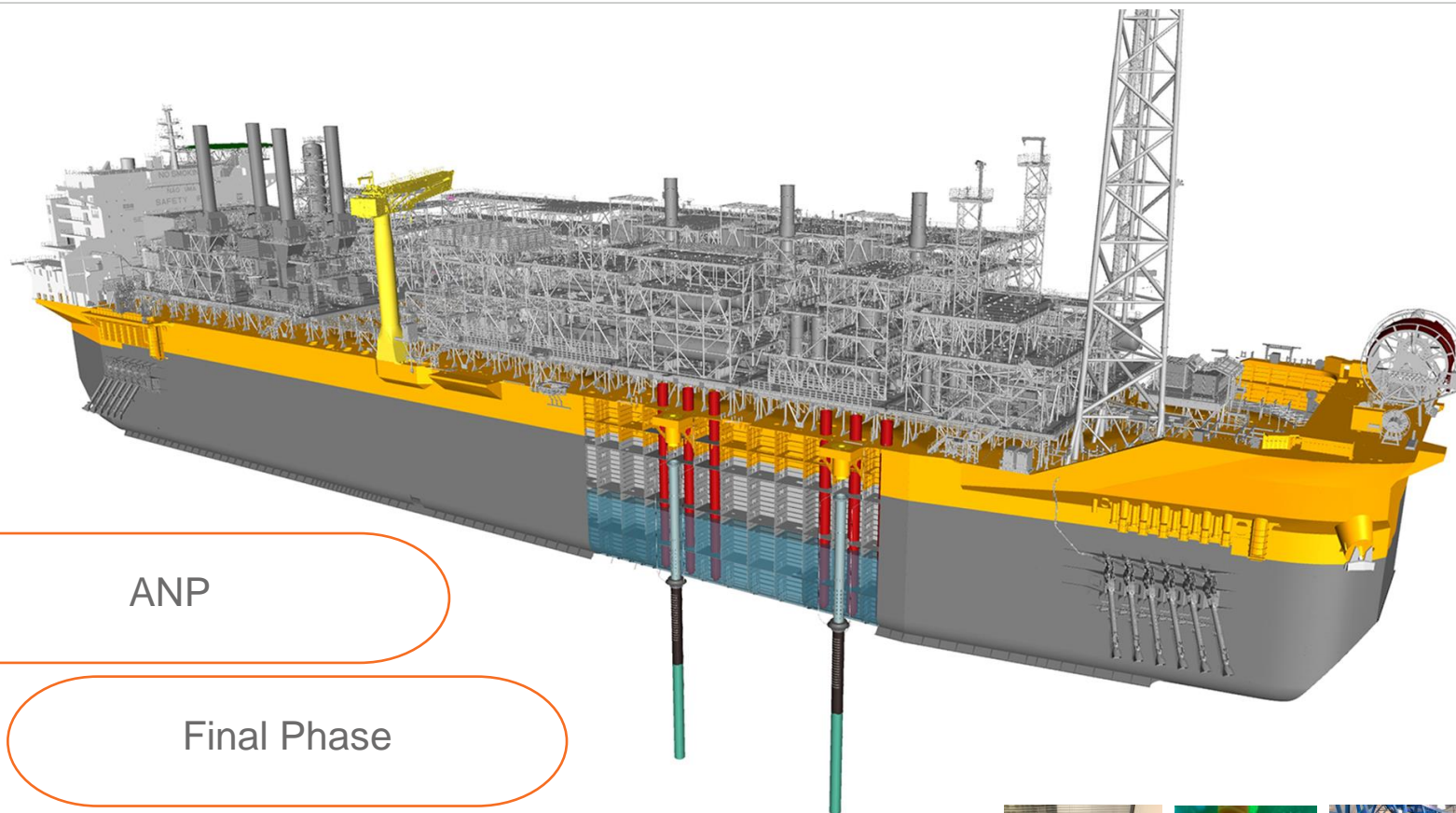
- Deep seawater hose
- Variable frequency drives
- Increased HP separator pressure
- MGC/ EGC/ IGC rearrangement
- Seawater ultrafiltration
- Produce water re-injection
- High efficiency water injection pumps

Note: Also contribute to CCGT & Carbon Capture energy efficiency plus ensure power load is within limit

Emission reduction contribution to the emissionZERO concept
(CO₂ kTPA reduction)



Seawater intake riser



Shell

ANP

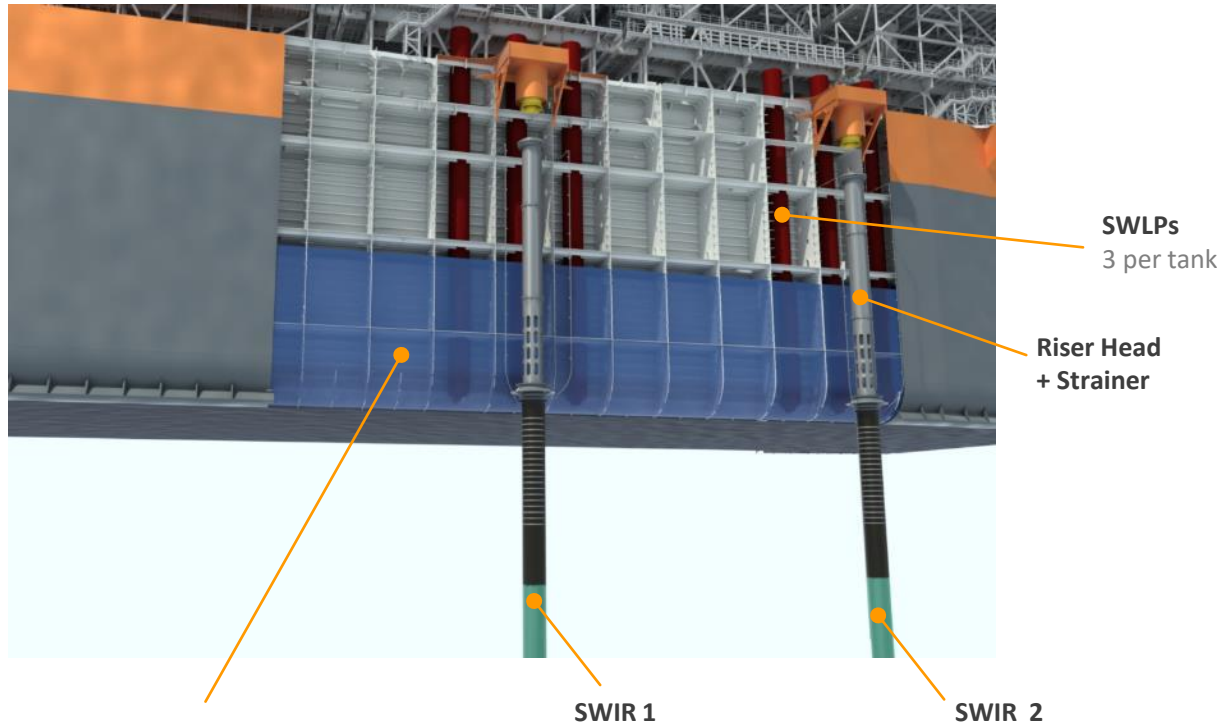
Ballast Patent

Final Phase

Backbone of the emissionZERO concept



Seawater intake riser



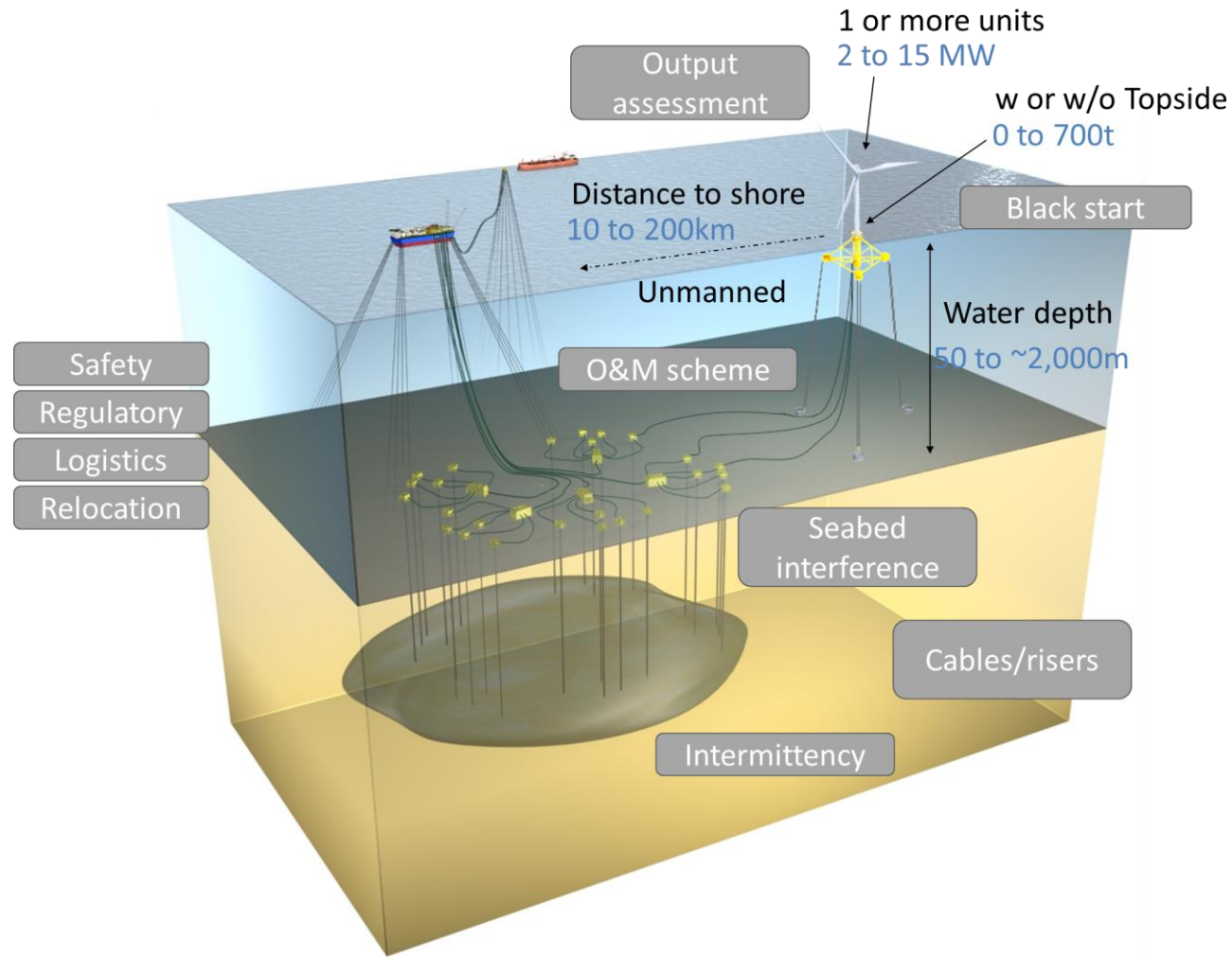
Sump Tank

Water Ballast tank that will accommodate SWIR + SWLPs will be called **sump tanks**

QUICK SUMMARY:

- **Communicating Vessels Concept**
- Captures water at ~700m water depth
- Water at 8°C -> CM and SW systems mainly impacted
- Water flow rate is up to 15500m³/h
- Systems are installed in New Builds / During Conversion
- 2 SWIRs per FPSO
- Systems are **100% redundant**
- **SWLPs are located inside the tank** and captures water from inside of the tank
- 3 SWLPs per tank -> Total 6 SWLPs on the FPSO
- Water Ballast tanks will be converted to **Sump tanks**. Sump tanks are necessary to act as a “buffer” for the SWLPs
- System is located at Starboard (Opposite from Riser Balcony)

off-grid applications



- 50 to 2,000m water depth
- Mild to North sea conditions
- 2 to 15 MW per unit
- Topside up to 700t
- Battery energy storage
- Power to platform
- Water injection from the floater
- Power to subsea equipment



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