











Participação







Websérie Novas **Energias:** Desenvolvimento de Eólicas Offshore no Brasil e a Experiência Holandesa

Introduction

Our Vision

SBM Offshore believes the oceans will provide the world with safe, sustainable and affordable energy for generations to come. We share our experience to make it happen.



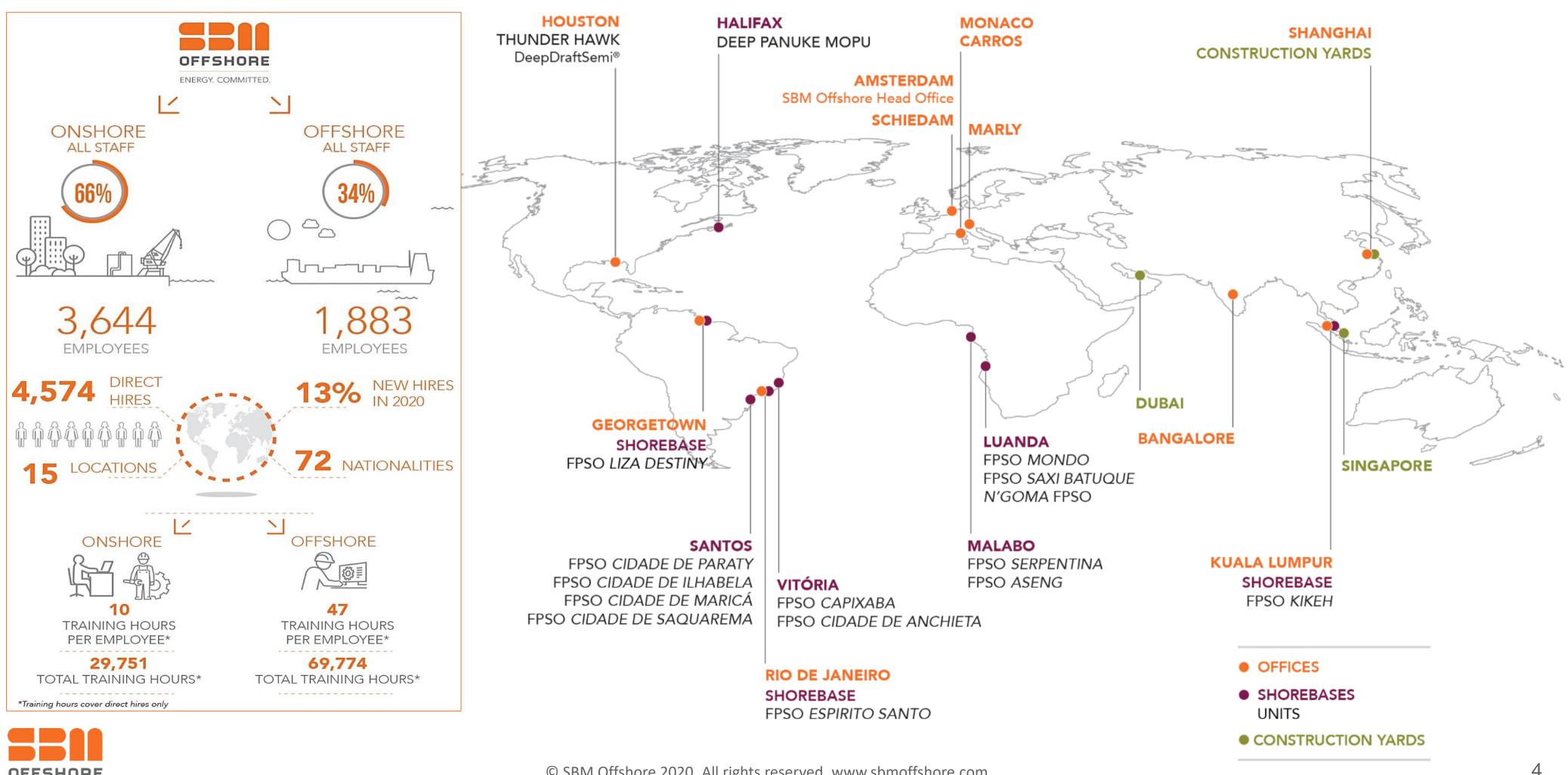


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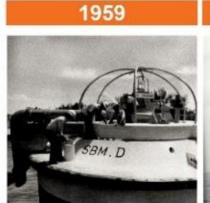
SBM Offshore around the world



OFFSHORE

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History of Innovation - Floating Industry Pioneer



CALM Buoy



Drilling Jack-up

1960

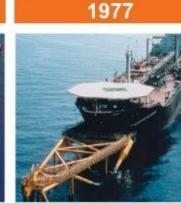


DP Drillship

1972



SBS Mooring System



SALS

Mooring System





Turnkey North Sea FPSO

Deepwater CALM Buoy

Delivery of the first Generic FPSO

Delivery of the largest SeastarTM TLP







Submerisible in the GoM

2011



COOL™ LNG Transfer System



2012

HV-AC Electric Swivel rated at 65KV and 150 MW



2013

VHP Fluid Swivel rated at over 800 bar



2013

1st Generation 3 FPSO (Paraty)



ARCA[™] Mooring System



GoM Disconnectable Turret FPSO



Soft Yoke

2006

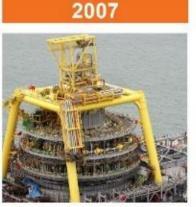


Offshore Offloading Line : Trelline™ Installed



2007

GAP™ mid water Fluid Transfer System



Largest Internal Turret with 75 risers

2009



First turret-moored FPSO using steel risers



2017

FAST NEXT GENERATION FPSC



Wind Floater design approved in principal ABS



S3® Wave Energy Converter registered trademark



New Energies & Services

Renewables Product Line

Floating Offshore Wind



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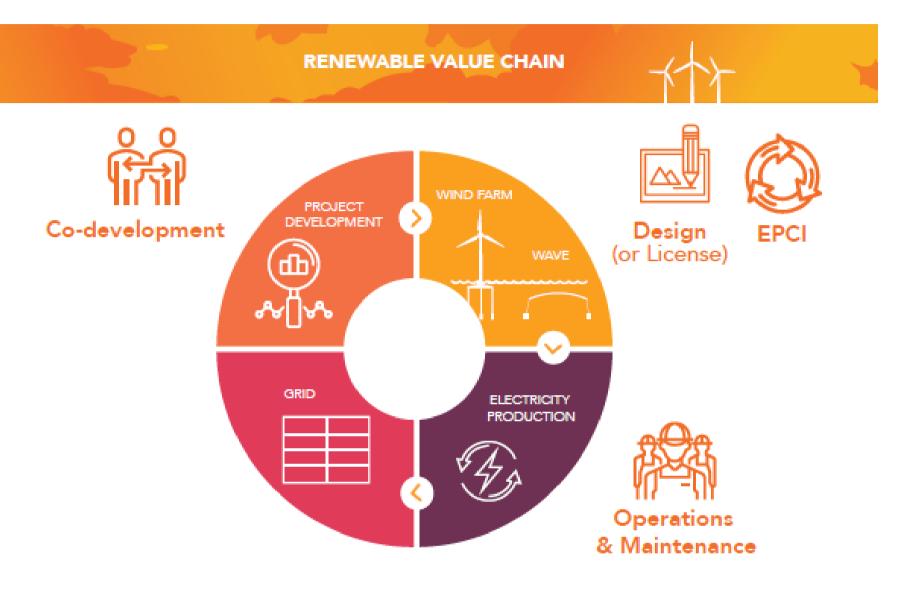


Valuable Chain

SBM OFFSHORE'S BUSINESS MODEL









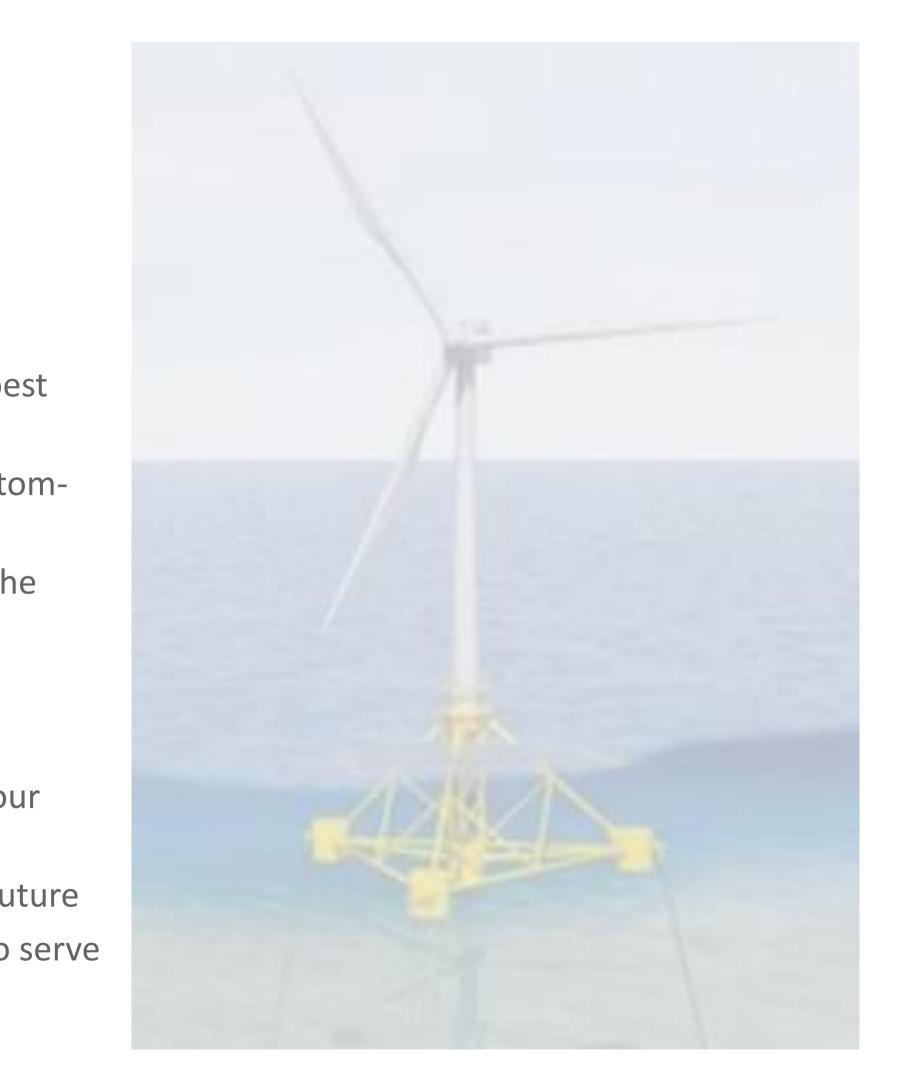
Why floating offshore wind ?

- Winds are stronger and more consistent far from the coast
- Around 80% of the world's offshore wind resource potential is in waters deeper than 60 m
- Designing suitable floaters for deeper waters allows to select the best sites in terms of wind resource
- Our goal is to make floating offshore wind competitive against bottomfixed by 2030
- We expect floating offshore wind to be the next game changer in the renewables sector

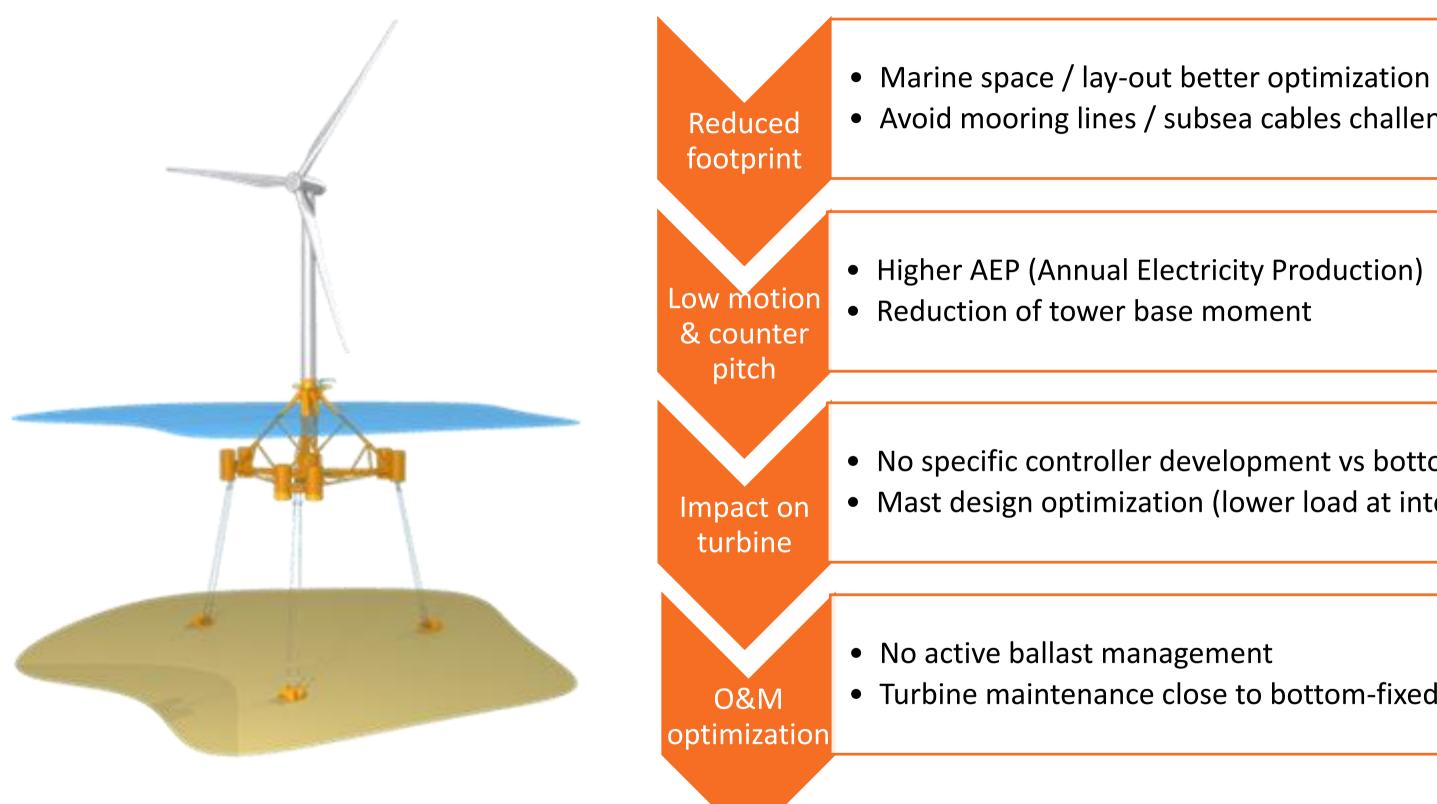
Why SBM is going to floating offshore wind?

- Our 60 years experience from the offshore O&G will directly help our clients to meet their goals in the wind sector
- Energy transition is part of SBM's commitment & strategy for the future
- Our personnel's expertise is similar, available & quickly deployed to serve projects in the floating offshore wind





Benefits of our TLP concept





• Avoid mooring lines / subsea cables challenging subsea arrangement

• No specific controller development vs bottom-fixed • Mast design optimization (lower load at interface with floater)

• Turbine maintenance close to bottom-fixed operation

FOW Roadmap



FLOATING WIND DEVELOPMENT PLAN

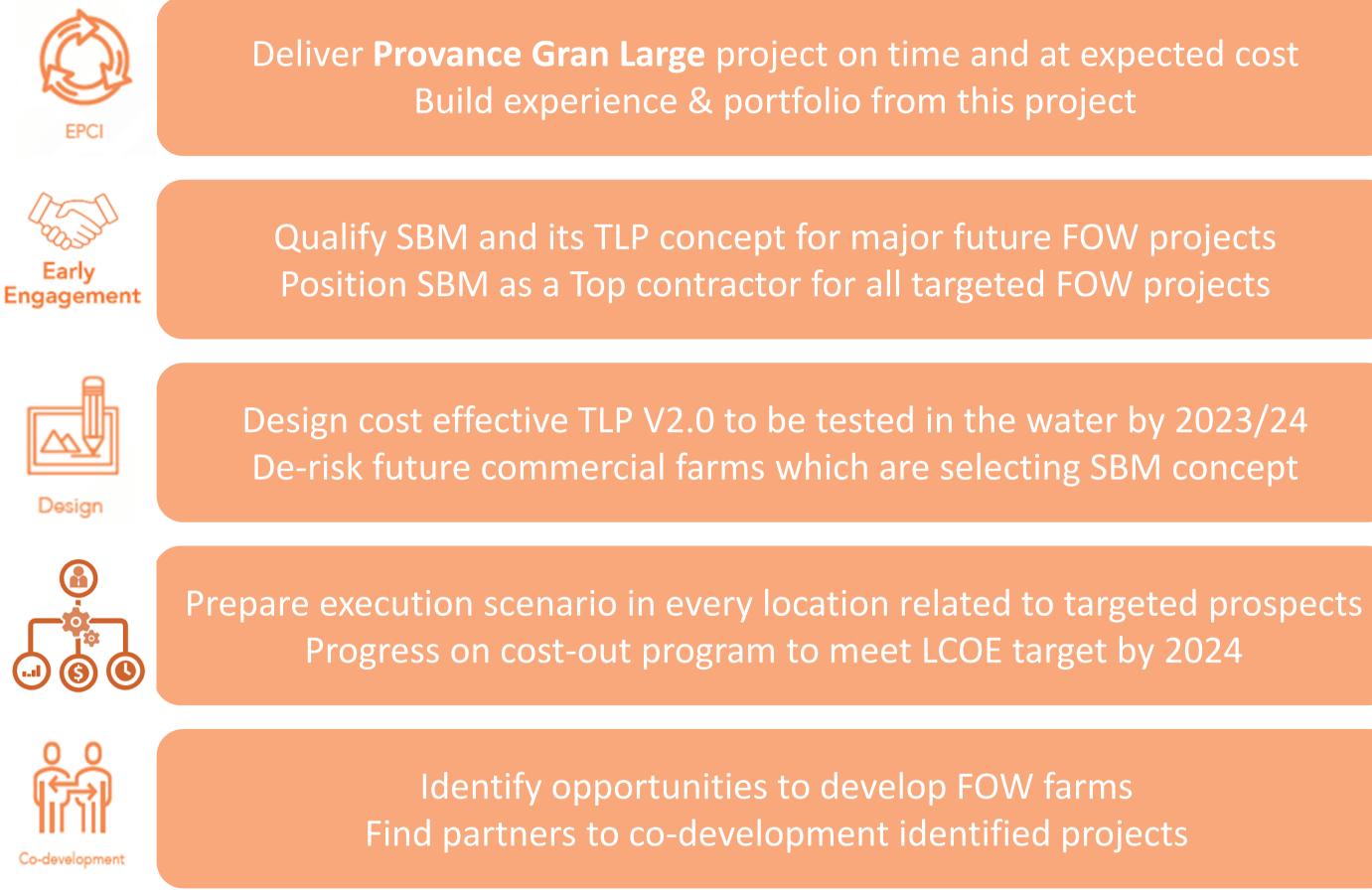


Technologie development and demonstration



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SBM offshore short-term objectives from 2021 to 2024

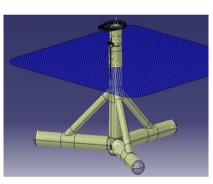




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