Floating Wind Solutions

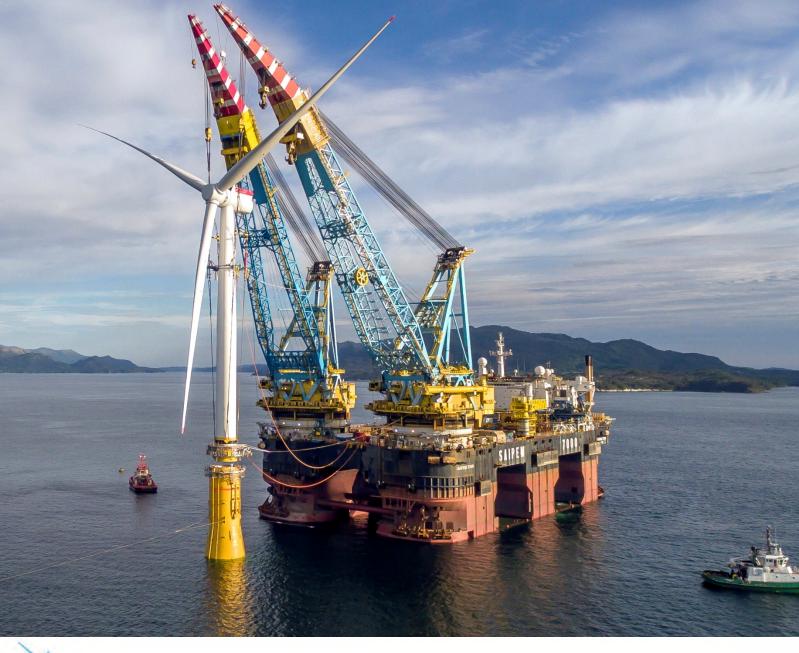
Floating Wind Serial Fabrication

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SAIPEM



Saipem at a glance

Saipem is a **Global Solution Provider** in the energy and infrastructure sectors with distinctive engineering and technology skills and a sustainable industrial model pivoting on the **energy transition**.

A **business integrator** with a strong commitment to innovation, **Saipem** is capable of delivering complex projects, thanks to the talent, passion and ingenuity of its people.

Saipem identifies and develops **cutting-edge solutions** for its clients and accompanies them along the evolution path required by the new energy scenario, creating long lasting strategic relationships.

We are "One Company" organized in five business divisions:

- XSIGHT Project Definition Services
- OFFSHORE E&C
 Engineering & Construction
- ONSHORE E&C
 Engineering & Construction
- OFFSHORE DRILLING
- ONSHORE DRILLING



>60

>32,000

130+

COUNTRIES WHERE WE OPERATE

EMPLOYEES

FROM DIFFERENT NATIONALITIES





SERIAL FABRICATION



Where do we start?





Serial Fabrication

- To put things in perspective:
 - Complete Yard size over 1,500,000 square meters (over 370 Acres)
 - Fabrication Area roughly 780,000 square meters (192 acres)





Serial Fabrication – The HEXAFLOAT

- The HEXAFLOAT structure for reference:
 - Central Column height of 33 meters
 - Base diameter of 70 80 meters weighing approximately 2,200 tons
 - Foundations are assumed to support a 12 MW WTG





Serial Fabrication

What is your Fabrication Strategy?

A- PREFABRICATION

- 1- Secondary columns or bracings2- Tertiary structure
 - 3- Mooring / ballast system

B - PRE-ASSEMBLY IN KIT

- 1- Buoyancy module
- 2- Central Column
- 3- External Platform + boat landing

C – ASSEMBLY / TEST / STORAGE

Basic structural

may be fully subcontracted to Specialized Subcontractor

Anywhere in the world

Smart Parts

Dedicated plant/line to be implemented in workshops for serial fabrication

Opportunity

1- Made in « local »

AND / OR

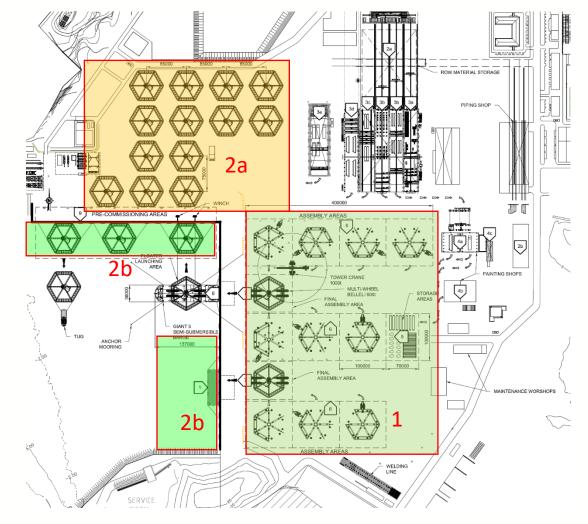
2- Pre-assembled elsewhere

Floating Wind Solutions



Fabrication Yard Layout

- Area 1 Assembly Area
 - Assembly Capacity of 10 units in parallel
 - Approx 120,000 sq meters
- Area 2 Storage Area
 - Storage Capacity
 - 15 units Onshore (~120,000 sq meters)
 - 4 units at Quay
 - Facilities for final commissioning
- These highlighted areas do not include the pre-Fab, Pre-Assembly, or Blasting & Painting shops



Yard Layout from the animation

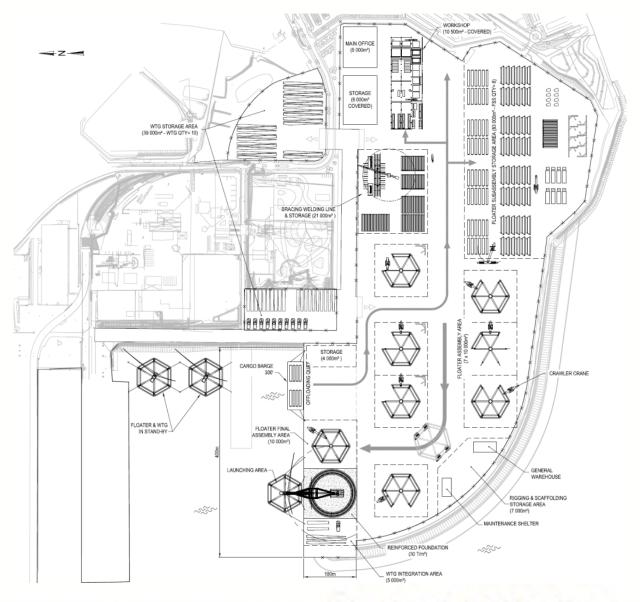




WTG Integration

 Kit Assembly and WTG Integration (Local Yard)

- Assembly / Storage Area of ~40 Ha (nearly 100 Acres)
- Min Quay length ~ 400 meters







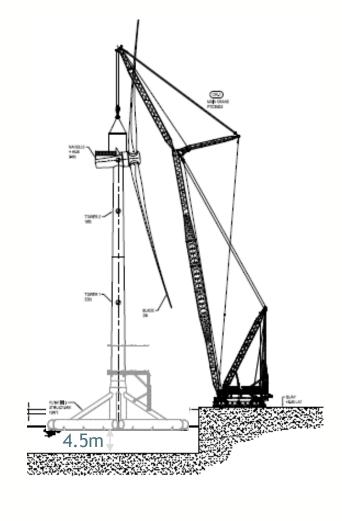
WTG Integration

 Kit Assembly and WTG Integration (Local Yard)

- Floater Launching and WTG Integration with a Heavy Lift Crane with sufficient height and reach
- o Soil bearing capacity 30 − 40 tons / sq m

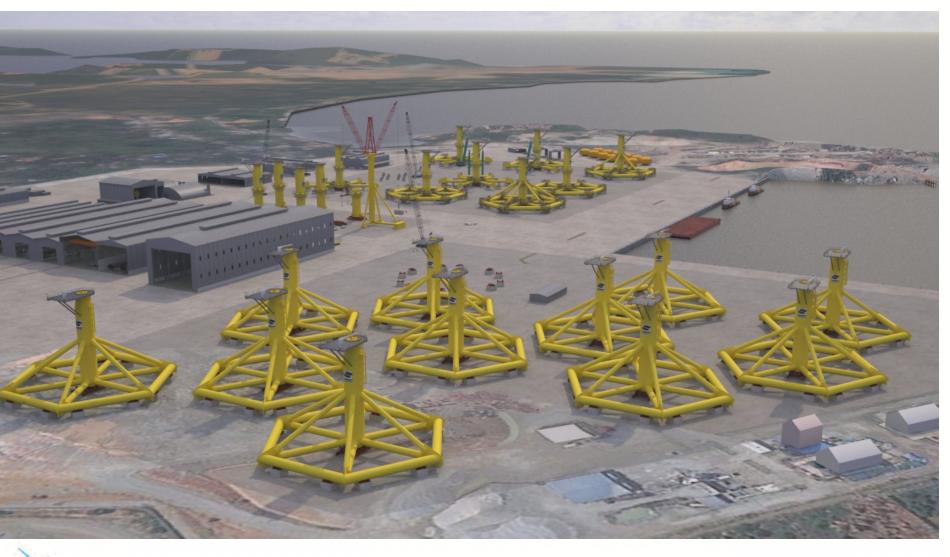




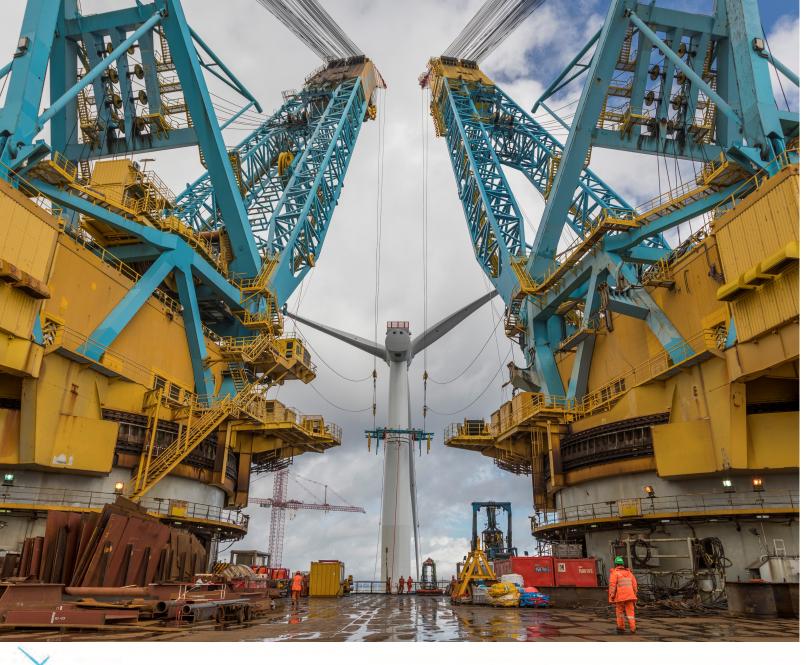




Where do we go next?







Thank You



