

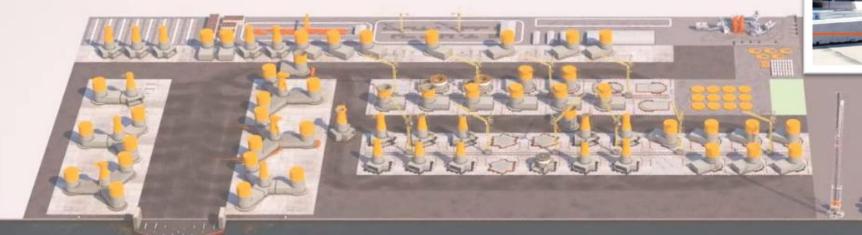




First things first...

Every workday at Bouygues starts with a warm-up session!





**Bouygues = "BWEEG"!** 

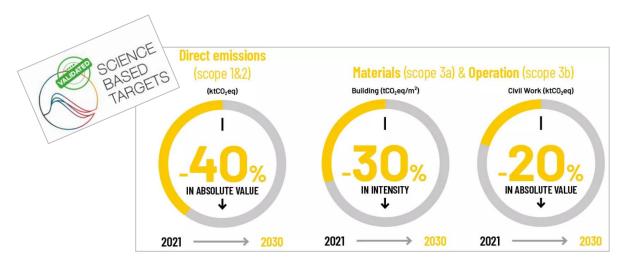






## Bouygues in a nutshell

- Part of civil works division within multiservice conglomerate
  Bouygues SA
- Global reach and permanent presence in UK, North Amercia, Australia, Hong-Kong,...
- Ambitious CSR policy including SBTI-approved CO<sub>2</sub> reduction targets by 2030
- > **EPC(I)** conctractor for offshore wind concrete foundations











#### Offshore wind track-record...

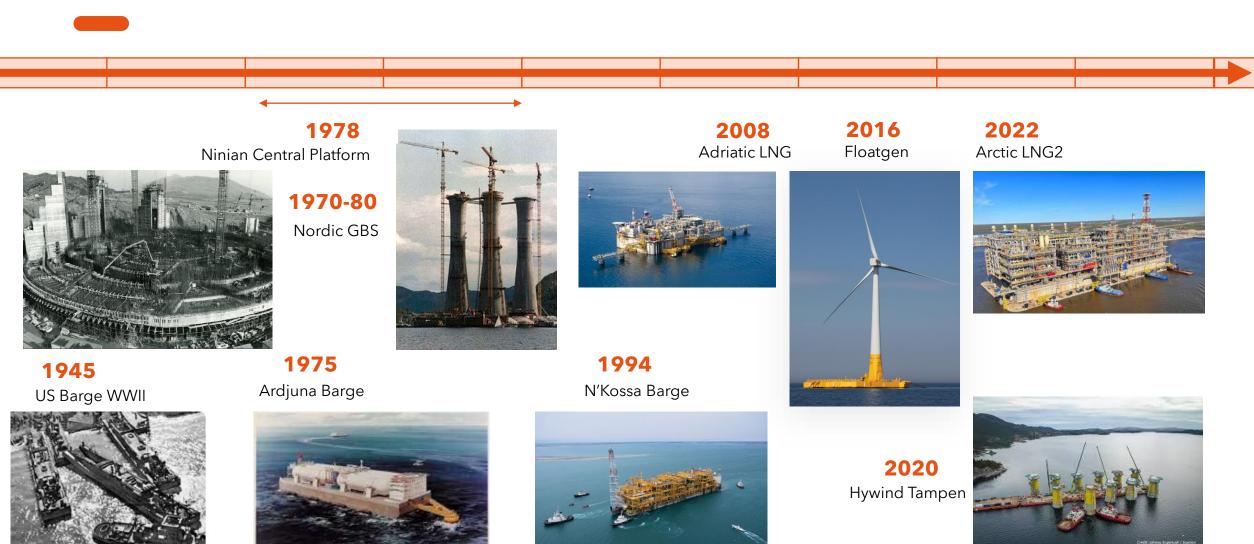








## Historical perspective on offshore concrete structures





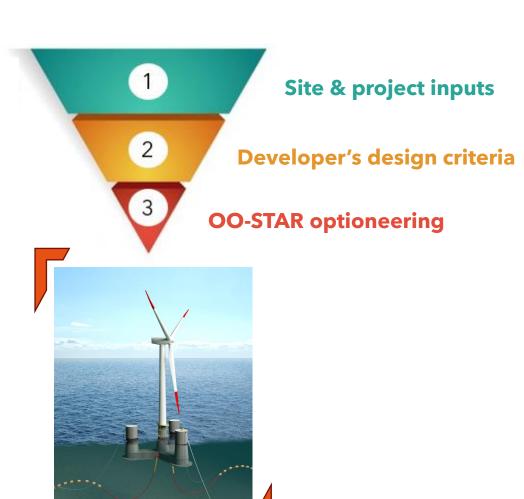
# Aiming for high design performance

#### Floating offshore wind demands stringent design performance:

- > **Hydrodynamic** behaviour for optimised turbine performance
- Strength, also in the face of temporary construction load-cases
- > Watertightness
- Design life and associated durability

#### But also...

 Compatibility with each project's operational requirements (draft, accessibility, O&M strategy...)



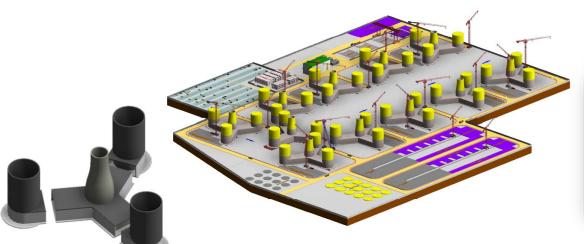


# Striving to reduce costs through industrialisation

A double approach to CAPEX reduction through design optimisation & productivity gains:

Optimising quantities

Designing full-blow & robust industrialised production lines



On Fécamp, productivity gains stood for **30% lead time reduction** between last and first concrete gravity-based foundation produced.

Our aim is not to standardize the product, but the workflow.



## Committing to sustainable solutions

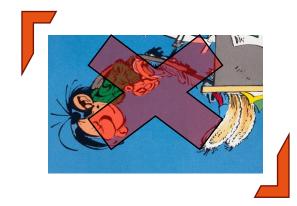
Offshore wind projects are by essence virtuous...

Especially when using concrete foundations which have a **carbon footprint 2 to 3 x lower** than steel equivalents!



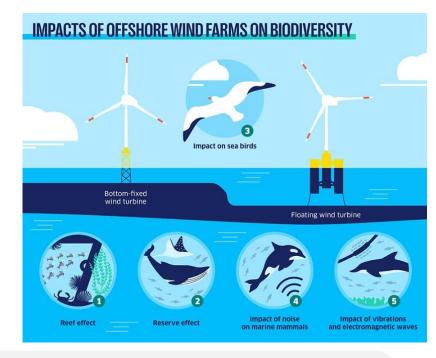


### Committing to sustainable solutions



#### We must stay committed to reducing further the impact of our projects on the environment:

- > Concrete production stands for **7% of global CO2 emissions** each year
- > Blast-furnace slag (or GGBS) will progressively become **scarce** in Europe.
- Chemical effects on the marine environment (e.g. painting and cathodic protection)
- The transport & installation phases of FOW projects remain highly CO2 emissive





### It's been done before...





#### ... and not just on offshore wind projects...







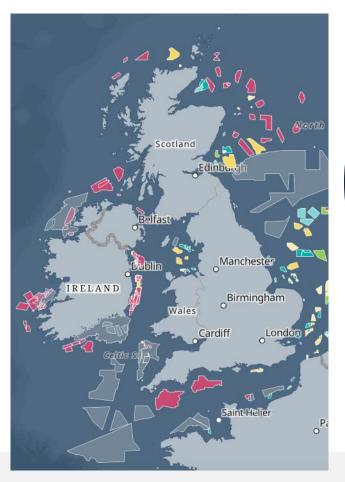


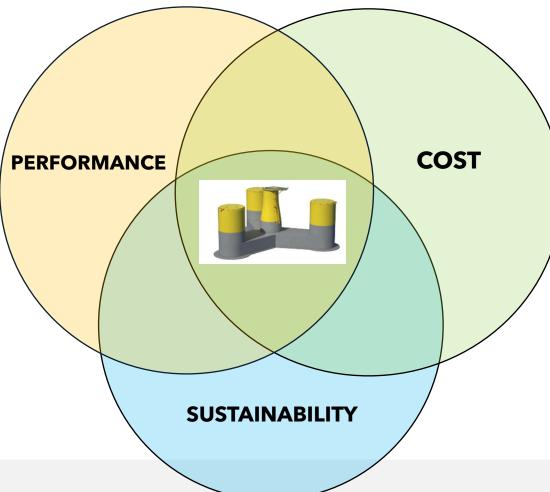
...but we can do better still!



### Conclusion

In the UK, floating offshore wind is giving us a unique opportunity to dream big!











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