

Framo

Streamlining FPSO Construction with Submersible Pump Technology

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Framo

Powered by
customers

1 750

Employees globally

+100

Apprentices



240

Offshore
installations



490

Offshore Fire
water systems



840

Sea Water
Lift pumps



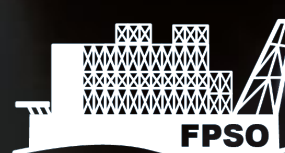
4 300

Ships with



69 000

Cargo Pumps installed



93

FPSOs with Cargo
Offloading Pumps

Framo Submerged Pumping Systems



Cargo pumps

Seawater lift pumps &
Submerged turbines

Fire water pumps

FPSO/FLNG Design Parameters

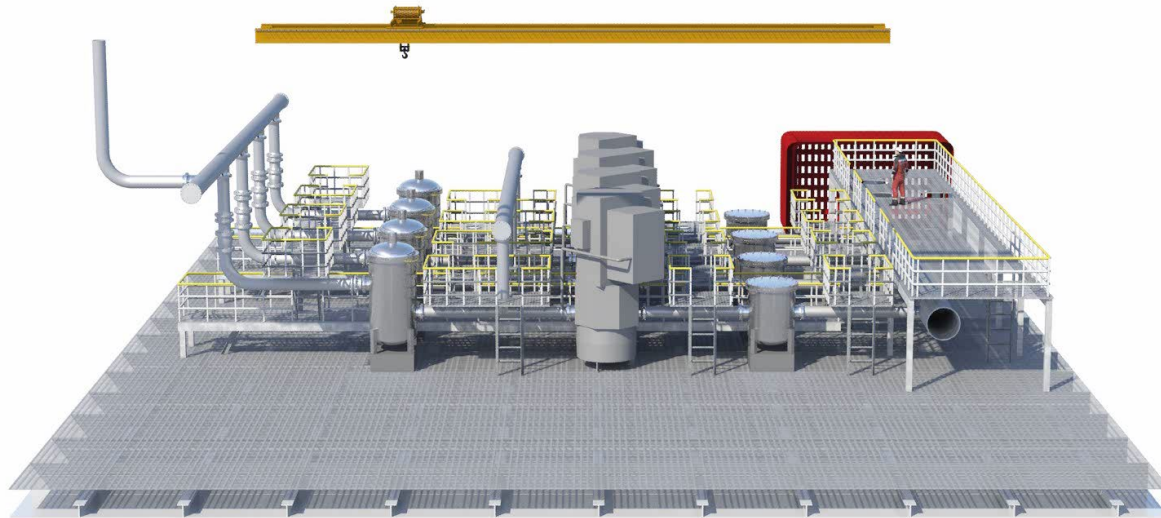
Yard capacity Environment Turret
Location **Newbuilt** Cost
Hull lead time Spread moored
Simplification Size Conversion
Repeatable

Pump System Design Parameters



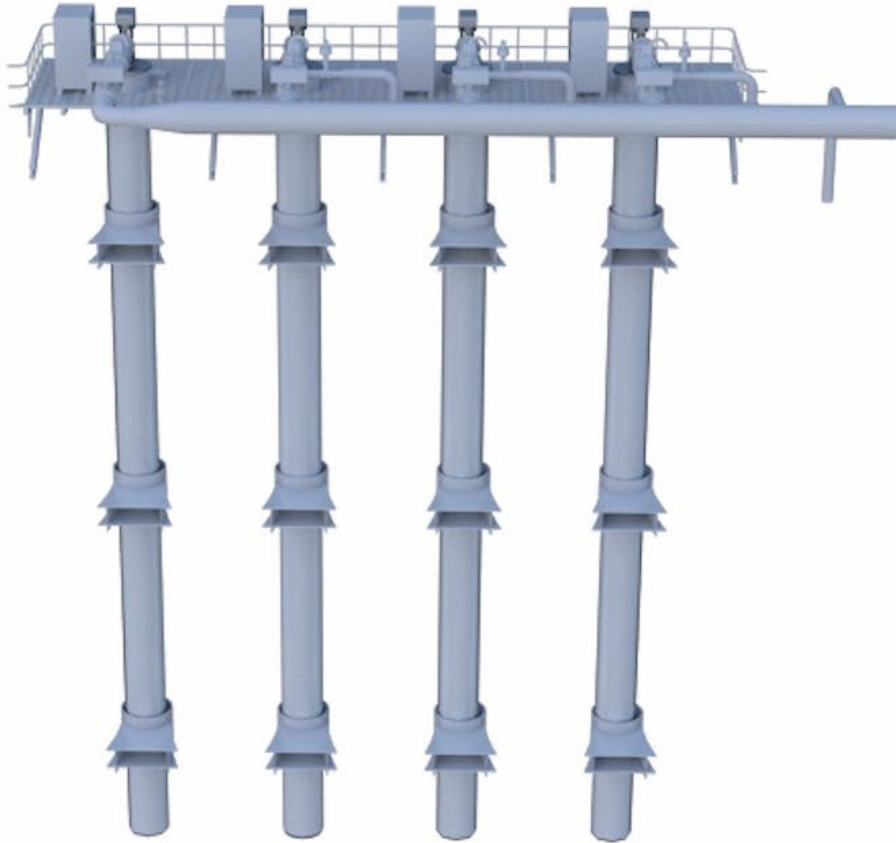
Pump Installation Alternatives

Seawater Intake – Pump Room



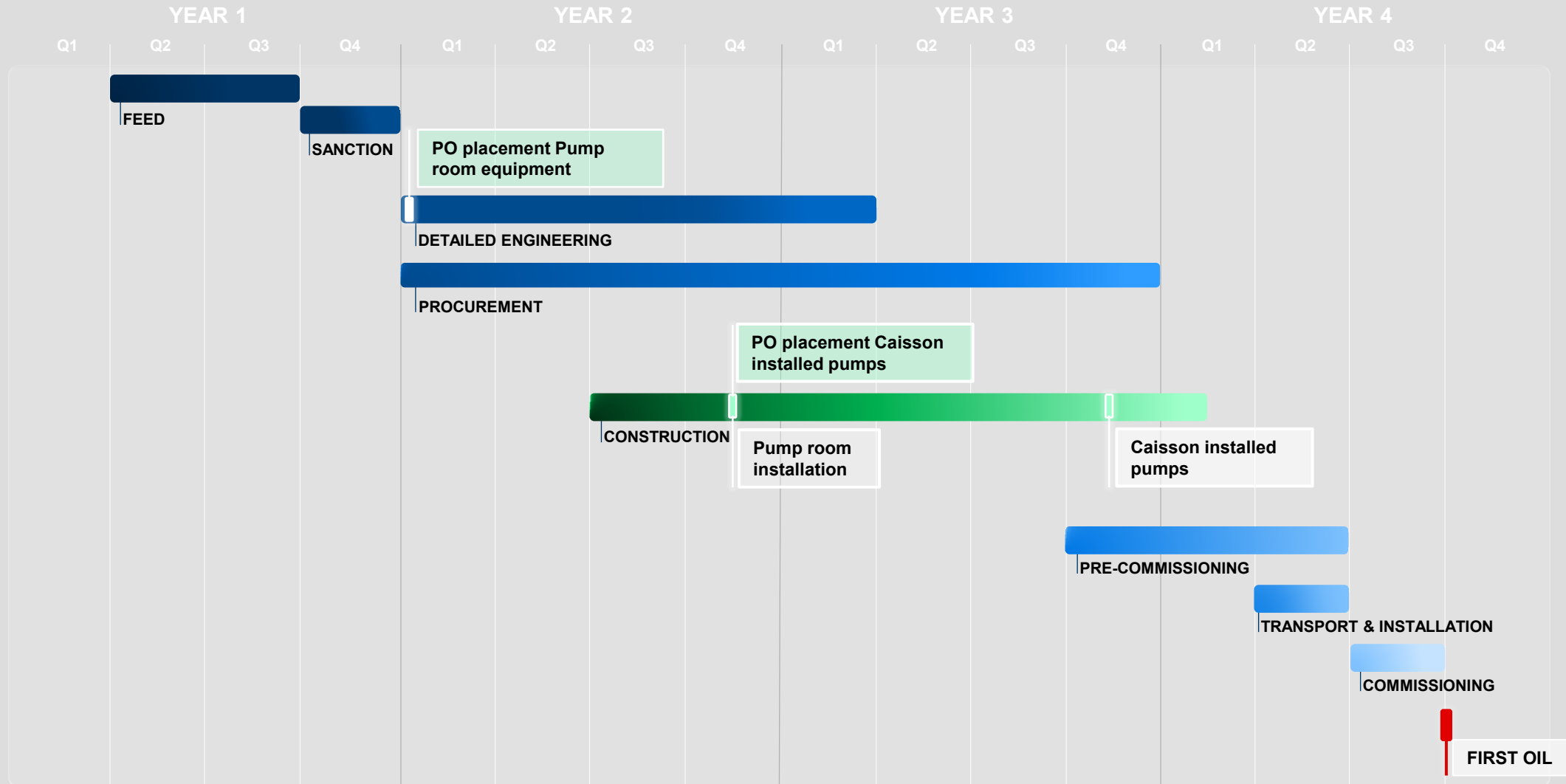
- **Seawater intake based on conventional marine design**
- **Extensive number of maintenance components**
- **Early need date at site - Early design freeze**
- **Extensive HSE exposure, i.e. incidental flooding**

Seawater Intake – Submersible Pumps



- **Caisson - Offshore design standard**
- **Standardized caisson design – Standard hull design**
- **Later need date at site - Later design freeze**
- **Water where you need it**
- **Easier suction hose installation**
- **Minimum of maintenance components**
- **Reduced HSE exposure - No risk of incidental flooding**

When do you need the pumps?





Streamline Your FPSO/FLNG Construction
By Selecting Submersible Pumps!



Thank you for your attention!

Questions?