



J-REG Panel Discussion

Presented by: Alberto Morandi, General Manager – Houston, GustoMSC | NOV

29th September 2022



1862



1959



1975



1978



1987



2011



2016



2018

Pioneers don't tell stories, they write history

1905



1972



1977



1981



2003



2015



2019



Globalization of Offshore Wind

- US has committed to 30 GW by 2030
- Europe just announced a commitment to 150 GW by 2030s
- China, Japan, Korea, Taiwan with significant developments
- Emerging: Brazil, Uruguay, Colombia, Chile, India, Australia, Vietnam, Poland, Romania
- Local content requirements
- **TIMING IS KEY - demand for equipment / vessels / experienced personnel will be high**
- **Align FINANCE, SUPPLY CHAIN and PROJECTS**
- Projects
 - Location (WD, metocean, etc.)
 - WTGs (number, size, foundations)
 - Ports (distance, capacity, restrictions)
- **Robust Technical Assurance process is needed: J-REG is one of the first in-depth efforts**

GustoMSC NG-series WTIVs under Construction



NG-9800C	NG-14000XL	NG-14000XL-G	NG-16000X-SJ	NG-16000X-EN	NG-20000X-CA
1,600 t fixed boom crane	2,500 t GMSC telescopic crane	2,500 t GMSC telescopic crane	2,200 t fixed boom crane	2,600 t fixed boom crane	2,100 t fixed boom crane
Q4-2022	Q4-2022	Q4-2023	Q4-2023	2024 / 2025	Q3-24 / Q1-25
				2 units	2 units (X-class)
					(+ 1 F-class unit)

How big are they?

GustoMSC CJ70

GustoMSC NG14000XL

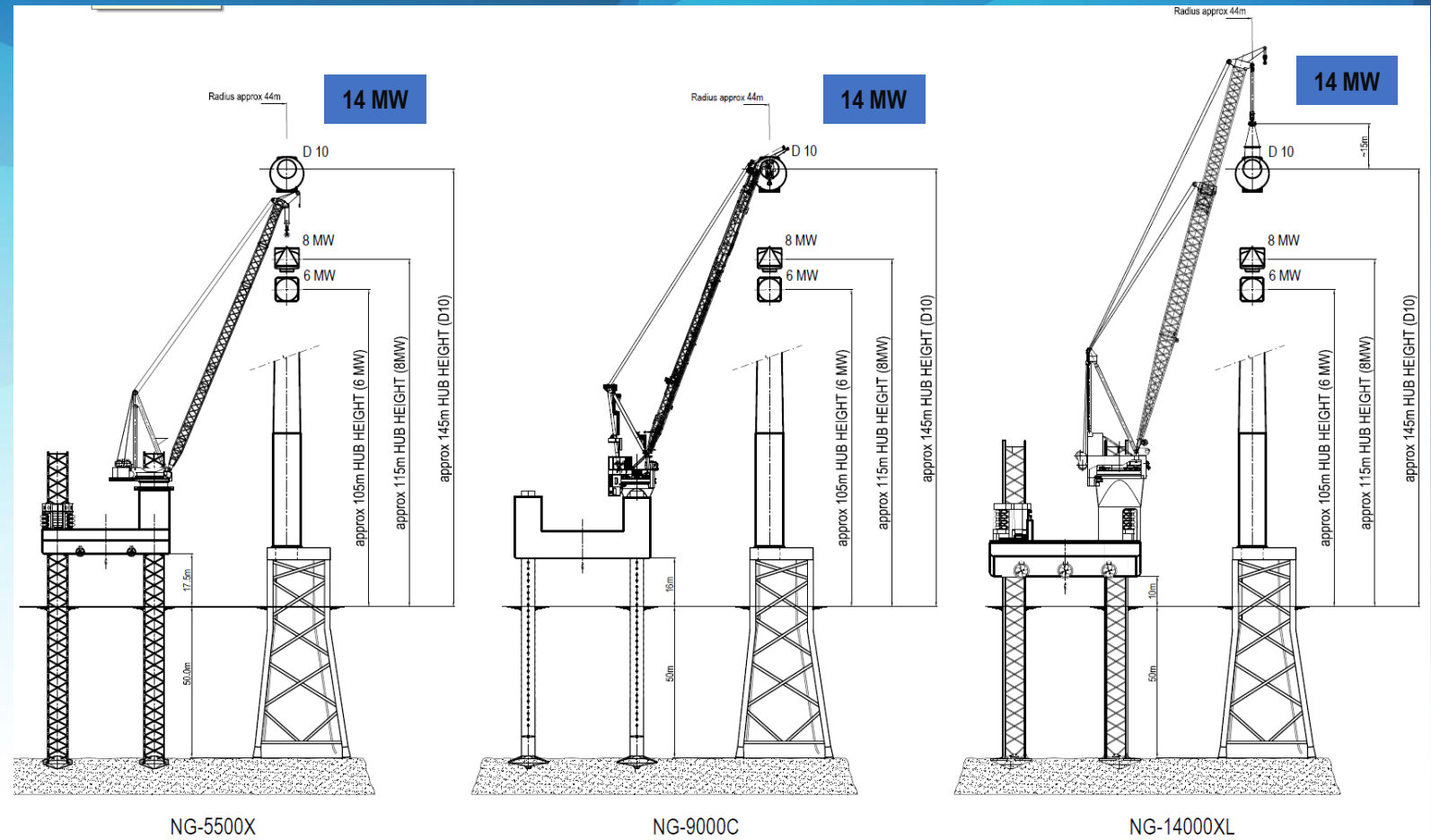
	NG14000-XL	CJ70
Hull length (m)	142	88.8
Hull width (m)	50	102.5
Approx. Envelope Area (m2)	7100	4550
Football Field (m2)	5350	5350
Hull Depth (m)	11	12
# Legs	4	3
Leg Type	Triangular Open Truss X-braced	Triangular Open Truss X-braced
POB	up to 130	up to 150
Leg length max.	109	206.7
Max. Water Depth (survival)	65	150
Pre-load per Leg (t)	14,000	20,000
Rig moves	150 / year	less than 10 / year
Stationkeeping	DP2	N.A.
Transit Speed (knots)	11	N.A.
Main Power (kW)	20,040	12,000 - 16,000
# Jacking Units	4 Layers x 24	4 Layers x 18
Jacking Speed @ max hull lift [m/min]	0.80	0.45 (normal)
Jacking Speed @ max leg handling [m/min]	1.20	0.68



Note: Approximate and Generic Values

Hoisting Heights – Higher & Heavier

- >14 MW WTG
- >145m Hub Heights
- >1,000t Weights



GustoMSC T&I Solutions

New-build vs existing, self-transiting vs feeder

1. WTI / WFI jack-up vessel
2. Liftboat feeders (N/A)
3. New-build feeder jack-up
4. Floating barge feeder – along jack-up (Mooring)
5. Floating barge feeder – docked
6. Motion compensated feeder barge or vessel
7. Other concepts (Sjøhest / Seahorse blade installation solution)



Thank you for your kind attention

Questions?