



SOGEBRAS

- Stevedoring
- Storage & Logistics
- Components
Mounting &
preparation
- Custom Clearance
- Ship & Liner Agency



A Logistics hub



The Logistics hub zone & constraints



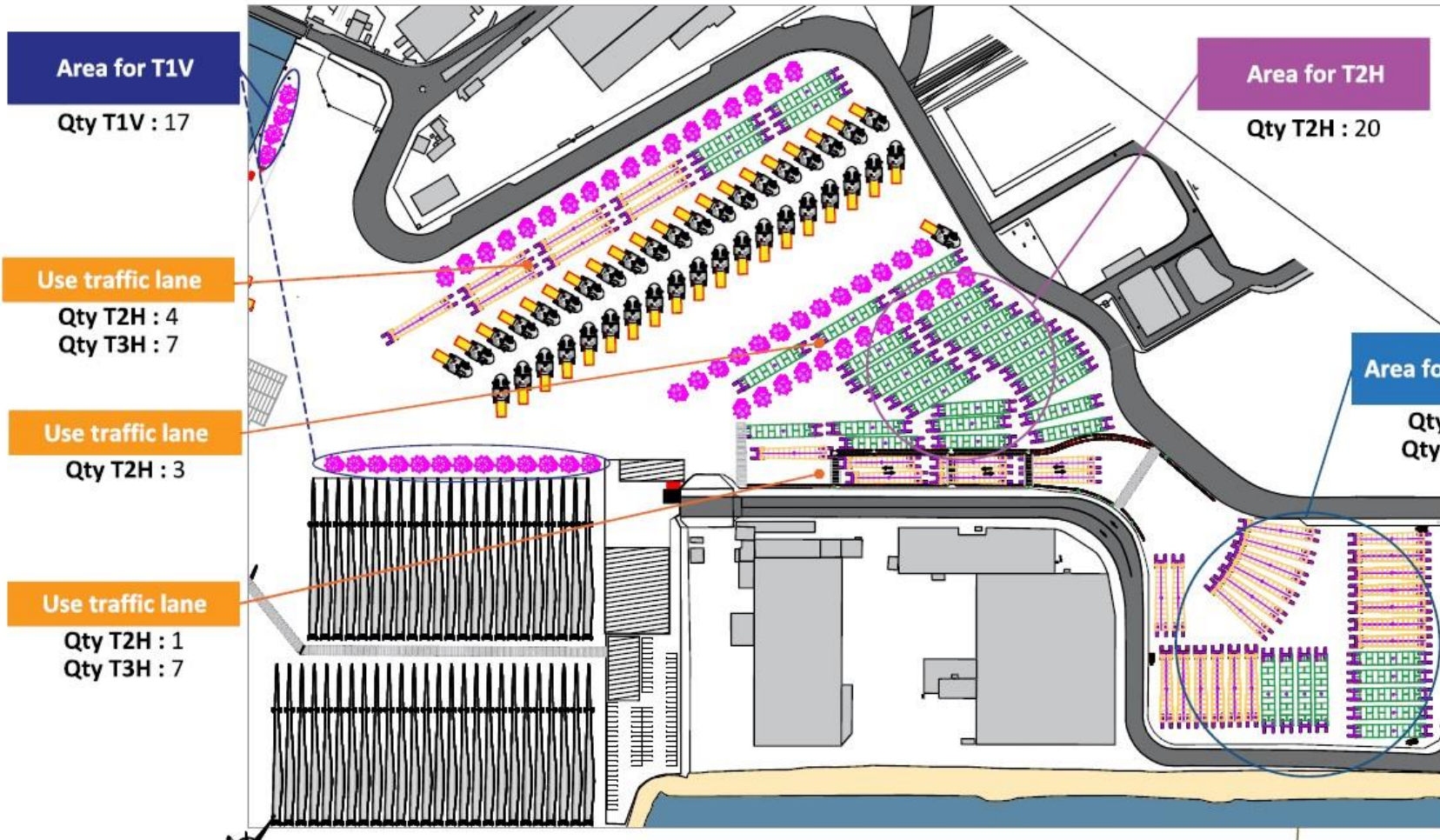
- 12 hectares for Receipts, management, control, preparation for load-outs:
 - 80x T1 + T2 + T3 sections (x 3 moves)
 - 240x Blades 75m / 39t (5x expected Moves)
(+ stackings / destackings 2 high / 3 high)
 - 80x Nacelles 420t (x 4 SPMT moves)

- TOTAL Expected handling work: 2'240 moves

LOGISTIC HUB LAYOUT | Saint-Nazaire

CRITICAL STORAGE

LIST of COMPONENTS in STORAGE				
T1	T2	T3	Blade	Nacelle
60	48	48	50	30



Area for T1V
Qty T1V : 17

Area for T2H
Qty T2H : 20

Use traffic lane
Qty T2H : 4
Qty T3H : 7

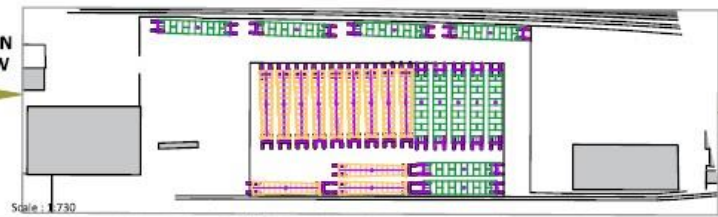
Area for T2H & T3H
Qty T2H : 9
Qty T3H : 21

Use traffic lane
Qty T2H : 3

Use traffic lane
Qty T2H : 1
Qty T3H : 7

Quai des charbonniers
Qty T2H : 11
Qty T3H : 12

47°17'17.7"N
2°11'57.6"W



STORAGE		HUB BARRAGE DE GUERANDE	
2006-2008	-4JMP	1:350	AD
2008-2010		1:350	AD
2010-2012		1:350	AD
2012-2014		1:350	AD
2014-2016		1:350	AD
2016-2018		1:350	AD
2018-2020		1:350	AD
2020-2022		1:350	AD
2022-2024		1:350	AD
2024-2026		1:350	AD
2026-2028		1:350	AD
2028-2030		1:350	AD

Components Storage: Capacity approx 60%



COMPONENTS UNLOADING

Tandem Lift

Towers

Blades

Nacelles



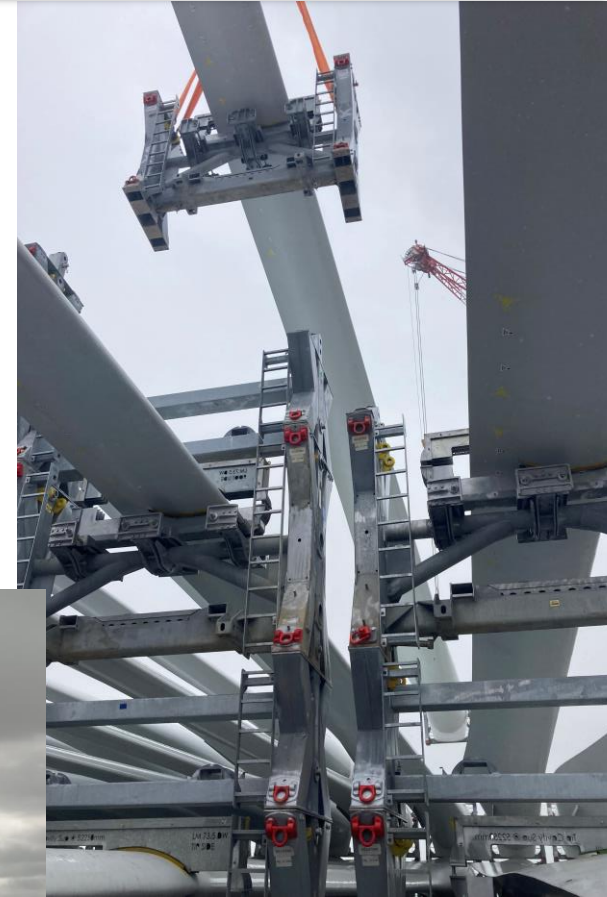


Nacelles Transfers: HL vessel

40 Units Load/Disch for 5km.

Insertion : Budget

SPT Blades Transfer & Stacking





SPT Blade Transfers

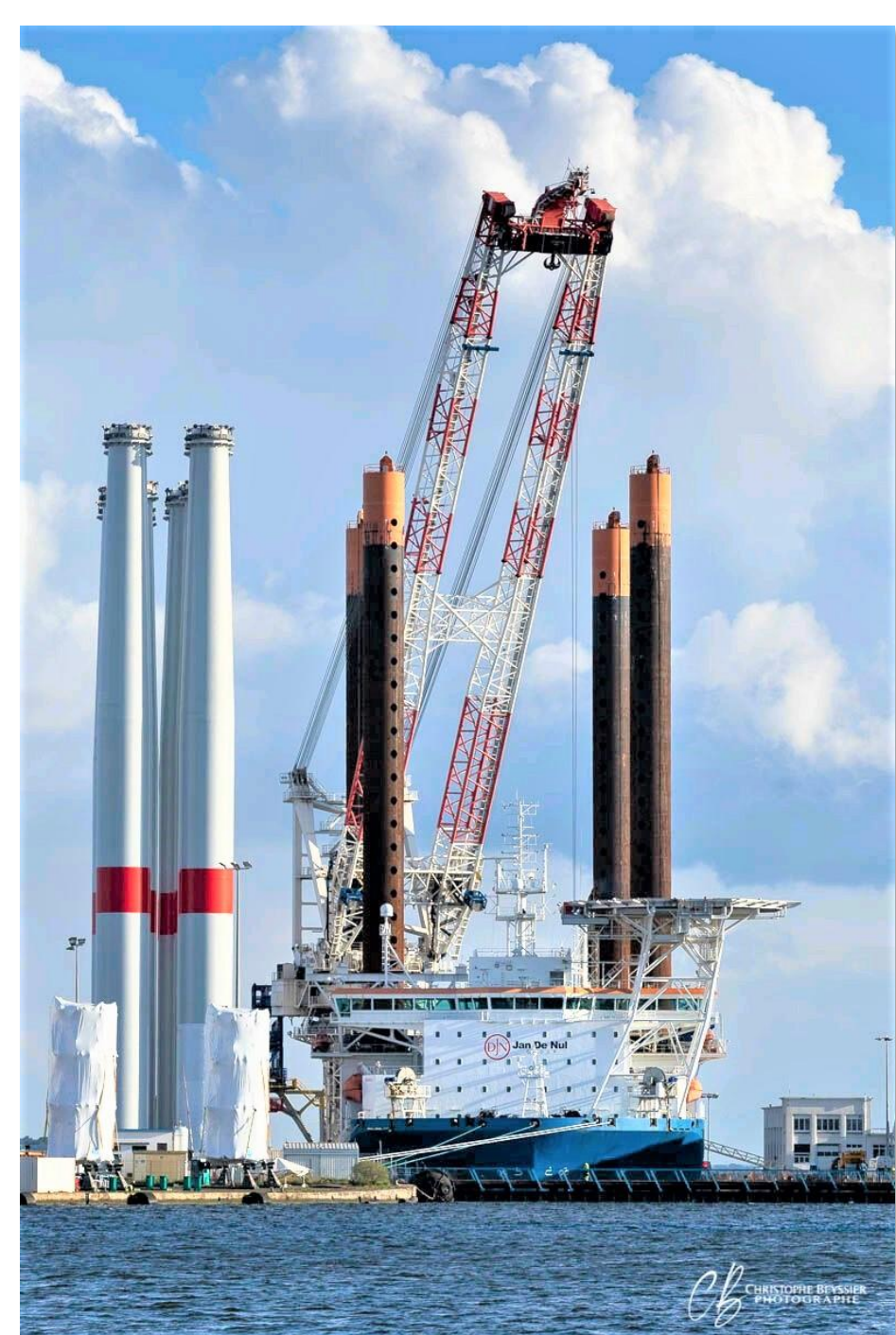
SPMT transfer to storage area

Blades Stacking



Blades Stacks





 **SOGEBRAS**

Components Loading



3x mounted tower Positions 1.2.3

Reverse logistics

Blades Loading : with shifting
Position 1 > 1 bis

Components Loading : Special Stevedoring

ST-NAZAIRE WIND FARM



Installation

12 to 20 km from the Port

20 Field rotations: 7>10 days,
5 to 3,5 day trips from trip 4

36h of requested load time

An unexpected challenge...

Initial Installation schedule : 4 towers 7>10days on work zone...

	NAVIRE		DATE		FIN	VOV Trip	VOV berth	VOV at Sea	MARCHANDISES	Qté	TONNAGE
M/V	VOLE AU VENT Voy 1	jeu	31/03/22	mer	06/04/22		7		EOLIENNES GE HUB	4	3 631,625
M/V	VOLE AU VENT Voy 2	mar	19/04/22	ven	22/04/22	19	4	13	EOLIENNES GE HUB	4	3 631,625
M/V	VOLE AU VENT Voy 3	lun	02/05/22	mer	04/05/22	13	3	10	EOLIENNES GE HUB	4	3 631,625
M/V	VOLE AU VENT Voy 4	lun	09/05/22	mer	11/05/22	7	3	5	EOLIENNES GE HUB	4	3 631,625
M/V	VOLE AU VENT Voy 5	mar	17/05/22	jeu	19/05/22	8	3	6	EOLIENNES GE HUB	4	3 631,625
M/V	VOLE AU VENT Voy 6	mar	24/05/22	jeu	26/05/22	7	3	5	EOLIENNES GE HUB	4	3 631,625
M/V	VOLE AU VENT Voy 7	mer	01/06/22	ven	03/06/22	8	3	6	EOLIENNES GE HUB	4	3 631,625
M/V	VOLE AU VENT Voy 8	ven	10/06/22	dim	12/06/22	9	3	7	EOLIENNES GE HUB	4	3 631,625
M/V	VOLE AU VENT Voy 9	sam	18/06/22	lun	20/06/22	8	3	6	EOLIENNES GE HUB	4	3 631,625
M/V	VOLE AU VENT Voy 10	dim	26/06/22	lun	27/06/22	8	2	6	EOLIENNES GE HUB	4	3 631,625
M/V	VOLE AU VENT Voy 11	sam	02/07/22	lun	04/07/22	6	3	5	EOLIENNES GE HUB	4	3 631,625
M/V	VOLE AU VENT Voy 12	jeu	07/07/22	sam	09/07/22	5	3	3	EOLIENNES GE HUB	4	3 631,625
M/V	VOLE AU VENT Voy 13	mer	13/07/22	ven	15/07/22	6	3	4	EOLIENNES GE HUB	4	3 631,625
M/V	VOLE AU VENT Voy 14	ven	22/07/22	sam	23/07/22	9	2	7	EOLIENNES GE HUB	4	3 631,625
M/V	VOLE AU VENT Voy 15	mer	27/07/22	ven	29/07/22	5	3	4	EOLIENNES GE HUB	4	3 631,625
M/V	VOLE AU VENT Voy 16	mer	03/08/22	ven	05/08/22	7	3	5	EOLIENNES GE HUB	4	3 631,625
M/V	VOLE AU VENT Voy 17	ven	12/08/22	dim	14/08/22	9	3	7	EOLIENNES GE HUB	4	3 631,625
M/V	VOLE AU VENT Voy 18	jeu	18/08/22	sam	20/08/22	6	3	4	EOLIENNES GE HUB	4	3 631,625
M/V	VOLE AU VENT Voy 19	mer	24/08/22	jeu	25/08/22	6	2	4	EOLIENNES GE HUB	4	3 631,625
M/V	VOLE AU VENT Voy 20	lun	29/08/22	jeu	01/09/22	5	4	4	EOLIENNES GE HUB	4	3 631,625
M/V	VOLE AU VENT Voy 21 Reverse	mar	06/09/22	mar	06/09/22	8		5	REVERSE LOGISTIC GE HUB	30	451,000
		21	Calls								73 083,500

