

# “CONHECER O MAR: INVESTIGAÇÃO E INOVAÇÃO”

AUDITÓRIO DA CASA DA BAÍA

SETÚBAL, 09.10.2018



# ASM GROUP

**38** YEARS OF  
EXPERIENCE



**10** FABRICATION  
FACILITIES



**+450** COMMITTED,  
QUALIFIED AND  
MOTIVATED WORKERS



**+50M€** REVENUE



**+90%** FOR  
EXPORTATION



MAJOR MARKETS:  
**-EUROPE**  
**-AFRICA**  
**-SOUTH AMERICA**





ASM METAL

OIL & GAS  
PRESSURE VESSELS & SPECIAL  
EQUIPMENTS



ASM GLOBAL ENGINEERING

TRANSPORT  
ROAD TANKERS, ISO  
CONTAINERS, TRAILERS



ASM INDUSTRIES

RENEWABLES & MARINE  
WIND TOWERS  
OFFSHORE FOUNDATIONS MARINE  
STRUCTURES



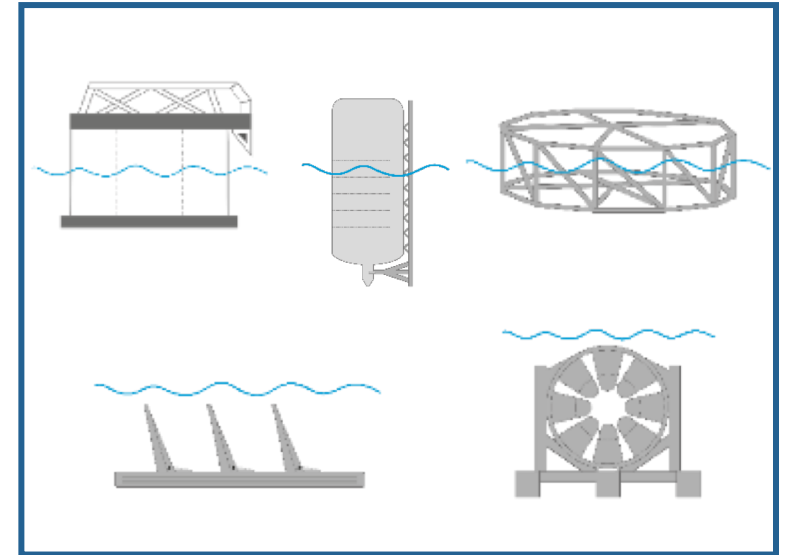
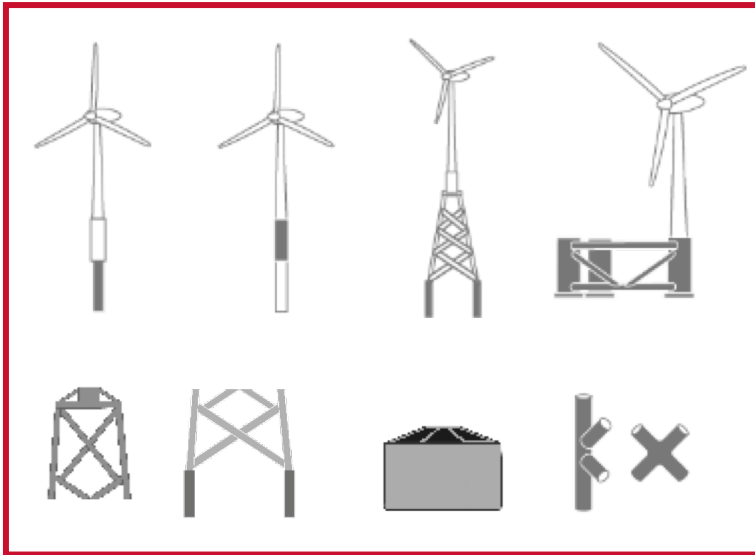
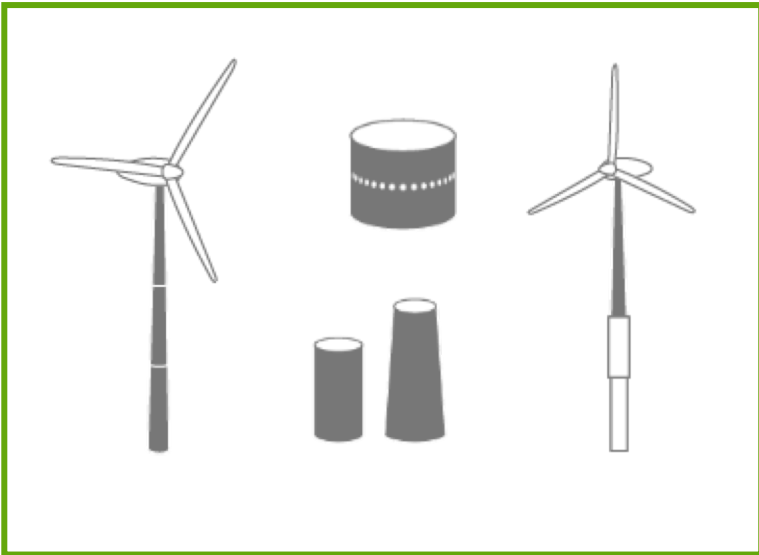




**WIND TOWERS**

**OFFSHORE FOUNDATIONS**

**MARINE STRUCTURES**





**ONSHORE**  
TOWER SECTIONS  
FOUNDATIONS  
STATOR COVERS  
INTERNALS



**OFFSHORE**  
TOWER SECTIONS  
INTERNALS



## MONOPILE

MONOPILE  
TRANSITION PIECE  
SECONDARY STEEL



## TRIPOD

TRANSITION PIECE  
SECONDARY STEEL  
TUBULARS



## JACKET

TRANSITION PIECE  
SECONDARY STEEL  
UPPER FRAME  
LOWER FRAME  
PILES



## JACKETS

LEGS  
BRACES  
X & K-JOINTS  
SUCTION BUCKETS  
FLOATING TANKS  
PILE CLUSTERS



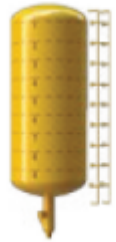
## FLOATING

UPPER BEAMS  
LOWER BEAMS  
TRUSSES  
COLUMNS





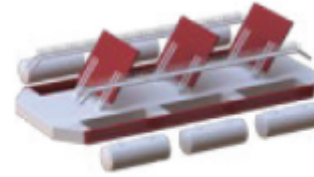
**BUOYS**



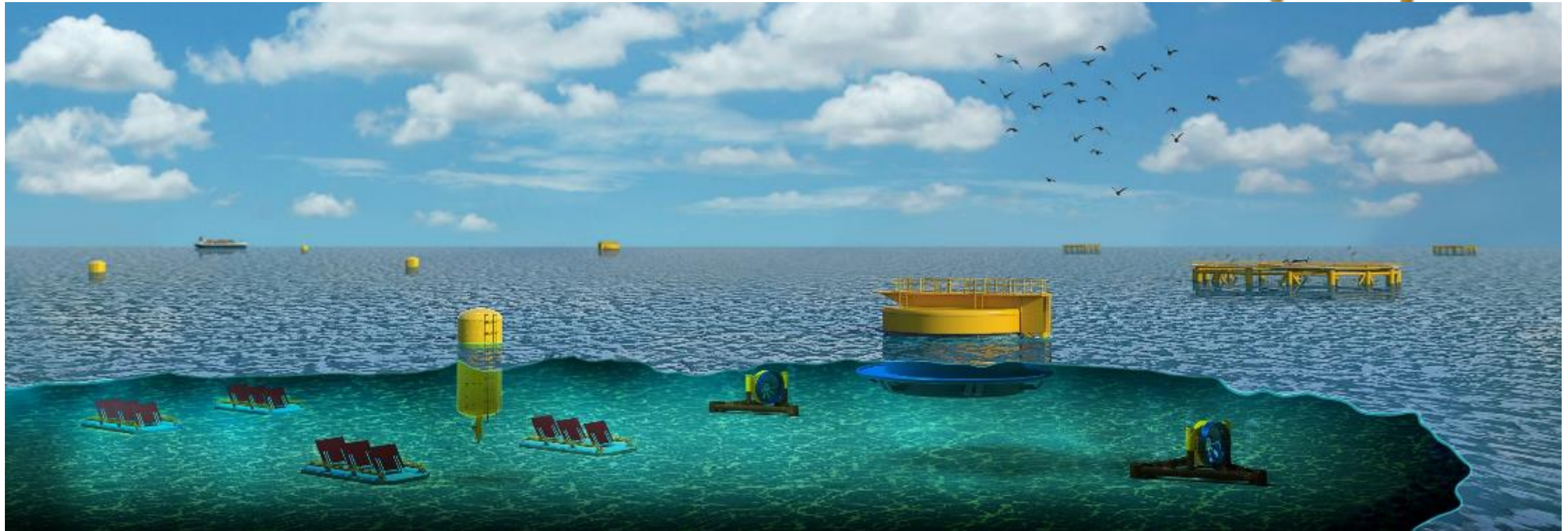
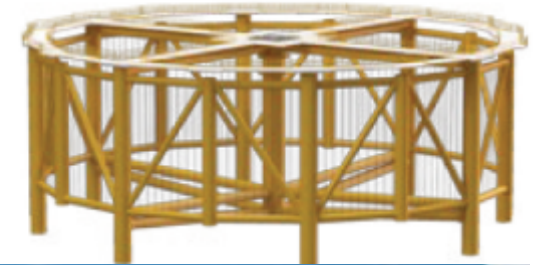
**TIDAL STRUCTURES**



**WAVE STRUCTURES**

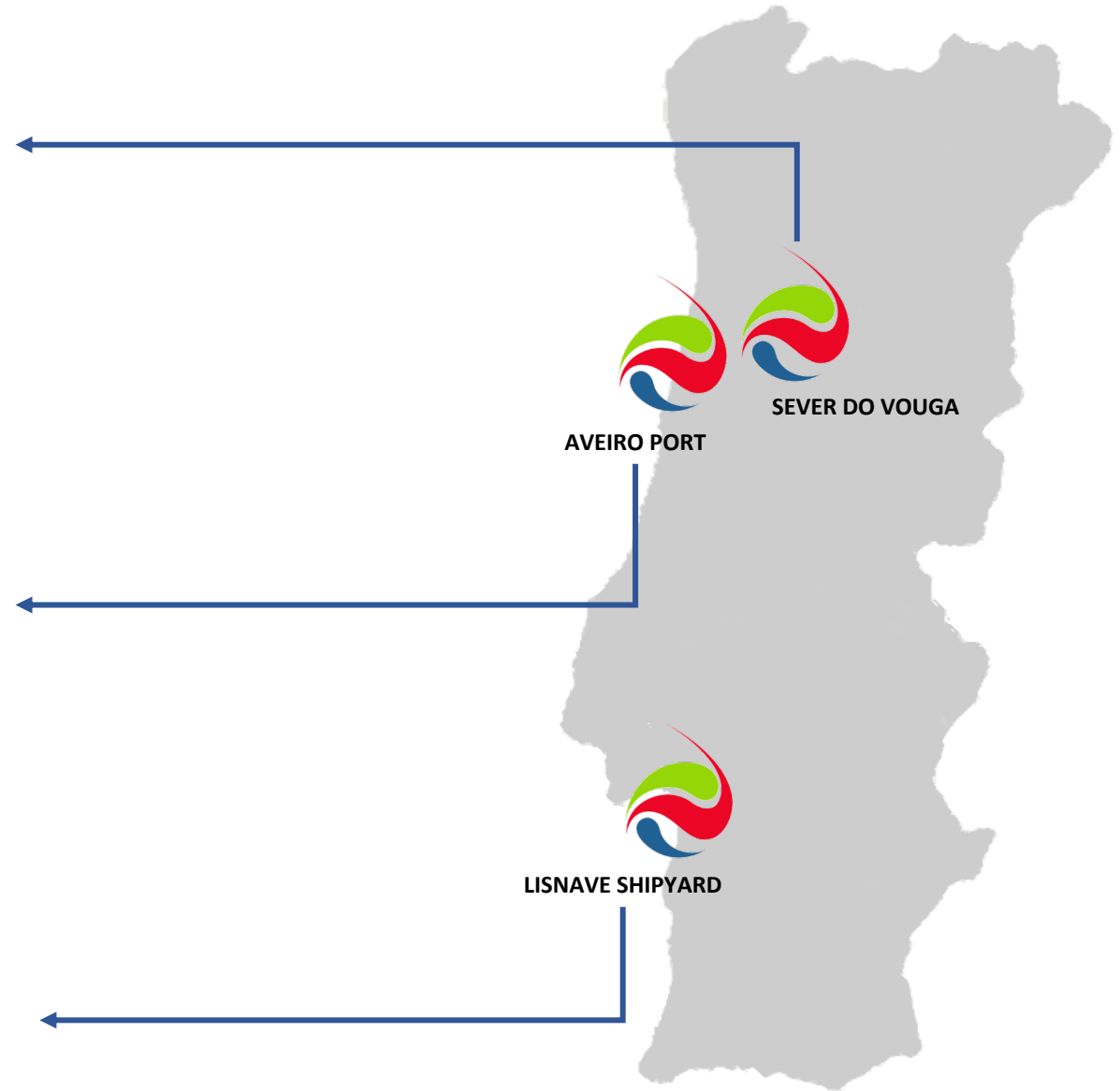
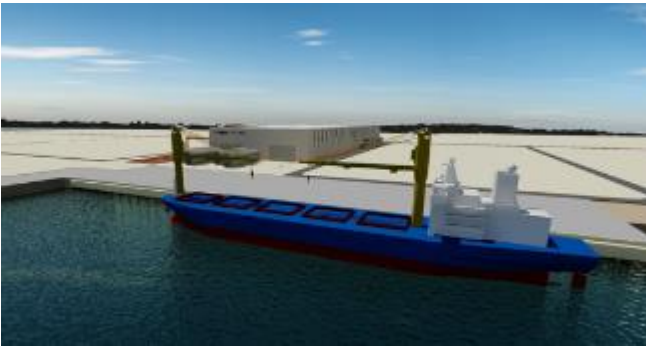


**AQUACULTURE**





# FABRICATION UNITS





**SEVER DO VOUGA, PT**

**ONSHORE WIND TOWERS & TUBULARS**



**+25 000 TON OF STEEL PROCESSED / YEAR**

**+ 640 TOWER SECTIONS PER YEAR**

<b>DIAMETERS</b>	<b>THICKNESSES</b>	<b>UNIT WEIGHTS</b>	<b>GROWING LINES</b>
4,9 m	118 mm	80 ton	2
<b>TOTAL AREA</b>	<b>FABRICATION AREA</b>	<b>STORAGE AREA</b>	<b>BLUE COLLARS</b>
60.000 m <sup>2</sup>	13.000 m <sup>2</sup>	10.000 m <sup>2</sup>	125



**AVEIRO PORT, PT**

**Under construction**



**OFFSHORE WIND TOWERS & FOUNDATIONS**

**START OF OPERATION - 1Q 2019**

**30 000 000 € INVESTMENT**

**35 000 TON OF STEEL PROCESSED / YEAR**



<b>DIAMETERS</b>	<b>THICKNESSES</b>	<b>UNIT WEIGHTS</b>	<b>GROWING LINES</b>
Up to 10 m	200 mm	450 ton	Up to 3
<b>TOTAL AREA</b>	<b>FABRICATION AREA</b>	<b>STORAGE AREA</b>	<b>PRIVATE QUAY</b>
~72 000 m <sup>2</sup>	~22 000 m <sup>2</sup>	~28 000 m <sup>2</sup>	200 m



02:37





**LISNAVE SHIPYARD, SETÚBAL, PT**



**OFFSHORE FOUNDATIONS & MARINE STRUCTURES**

**OPTIMAL FOR HEAVY ASSEMBLY WORKS**

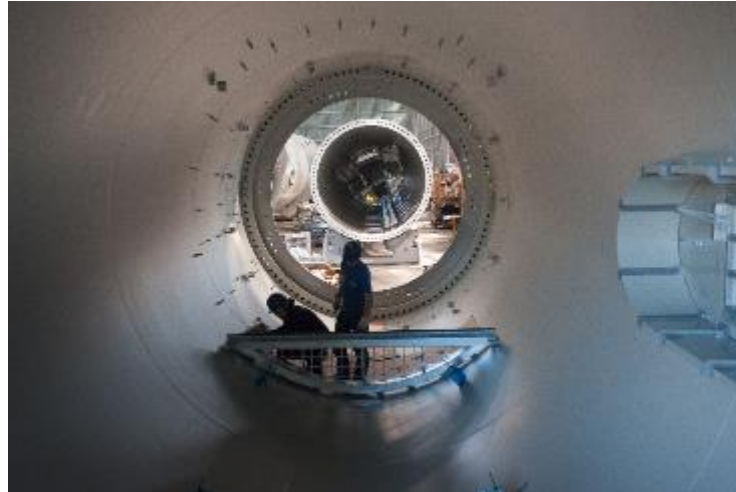
**COAST FRONT LOCATED & DRY DOCK FACILITY**

**HIGH LEVEL OF FLEXIBILITY ON PRODUCT ALLOCATION**

<b>DIAMETERS</b>	<b>THICKNESSES</b>	<b>LIFTING WEIGHTS</b>	<b>GROWING LINES</b>
Up to 13m	150 mm	400 ton	2
<b>TOTAL AREA</b>	<b>FABRICATION AREA</b>	<b>STORAGE AREA</b>	<b>PRIVATE QUAY &amp; DRY DOCK</b>
~150 000 m <sup>2</sup>	~42 000 m <sup>2</sup>	~100 000 m <sup>2</sup>	300 m



# KEY PROJECTS







**PERIODO**

**Set' 10 – Set' 11**

**N.º UNIDADES**

**1**

**DIMENSÕES GERAIS**

**Colunas: 26m x 10,5m  
Plataforma: 63 x 63 x 63**

**PESO**

**~ 1200 ton**

**LOCAL FABRICO**

**LISNAVE**

**INSTALAÇÃO**

**Oct. ' 11**

**PERIODO TESTES**

**5 anos**

**RESULTADO**

**SUCESSO**



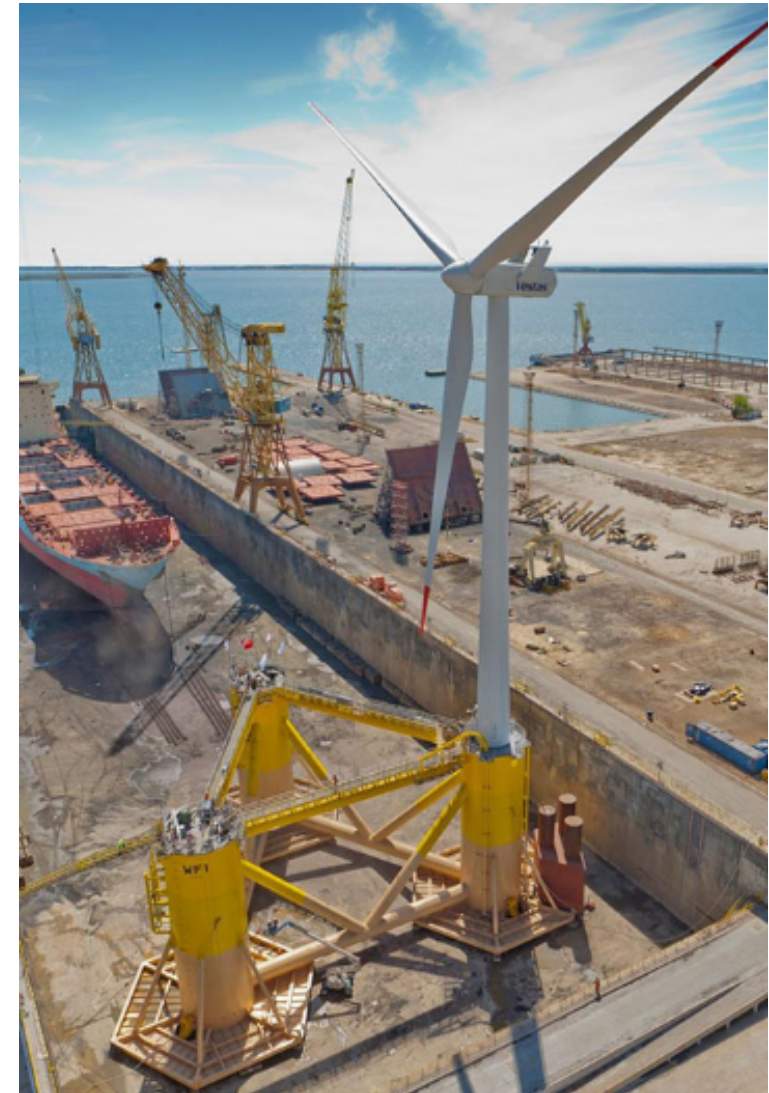




WINDFLOAT CONSTRUCTION TIMELAPSE VIDEO



[https://youtu.be/Yh9tC5Y\\_iCo](https://youtu.be/Yh9tC5Y_iCo)





**PERIODO**

**Mai' 18 – Jun' 18**

**N.º UNIDADES**

**1**

**DIMENSÕES GERAIS**

**Windfloat 1**

**PESO**

**~ 1200 ton / uni**

**LOCAL OPERAÇÕES**

**ASM MARINE, LISNAVE**

**INSTALAÇÃO**

**SETEMBRO' 18**

**PERIODO OPERACAO**

**2 anos**

**FASE**

**Pré comercial**







**PERIODO**

**Mar' 18 – JUL' 19**

**N.º UNIDADES**

**2**

**DIMENSÕES GERAIS**

**Colunas: 30m x 12,5m  
Plataforma: ~ 70 x 70 x 70**

**PESO**

**~ 2500 ton / uni**

**LOCAL FABRICO**

**ASM MARINE, LISNAVE**

**INSTALAÇÃO**

**VERÃO' 19**

**PERIODO OPERACAO**

**20 – 25 anos**

**FASE**

**Pré comercial**

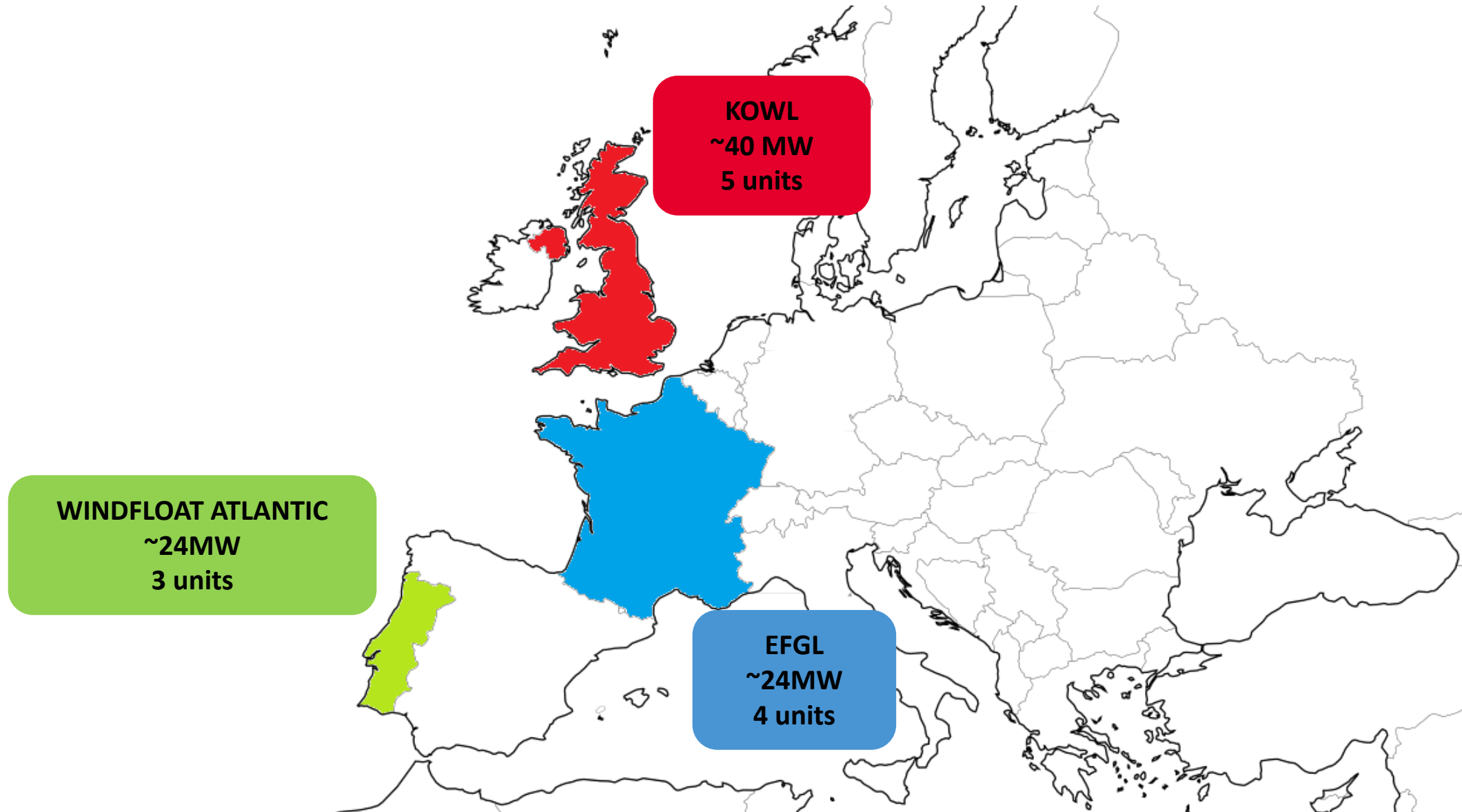




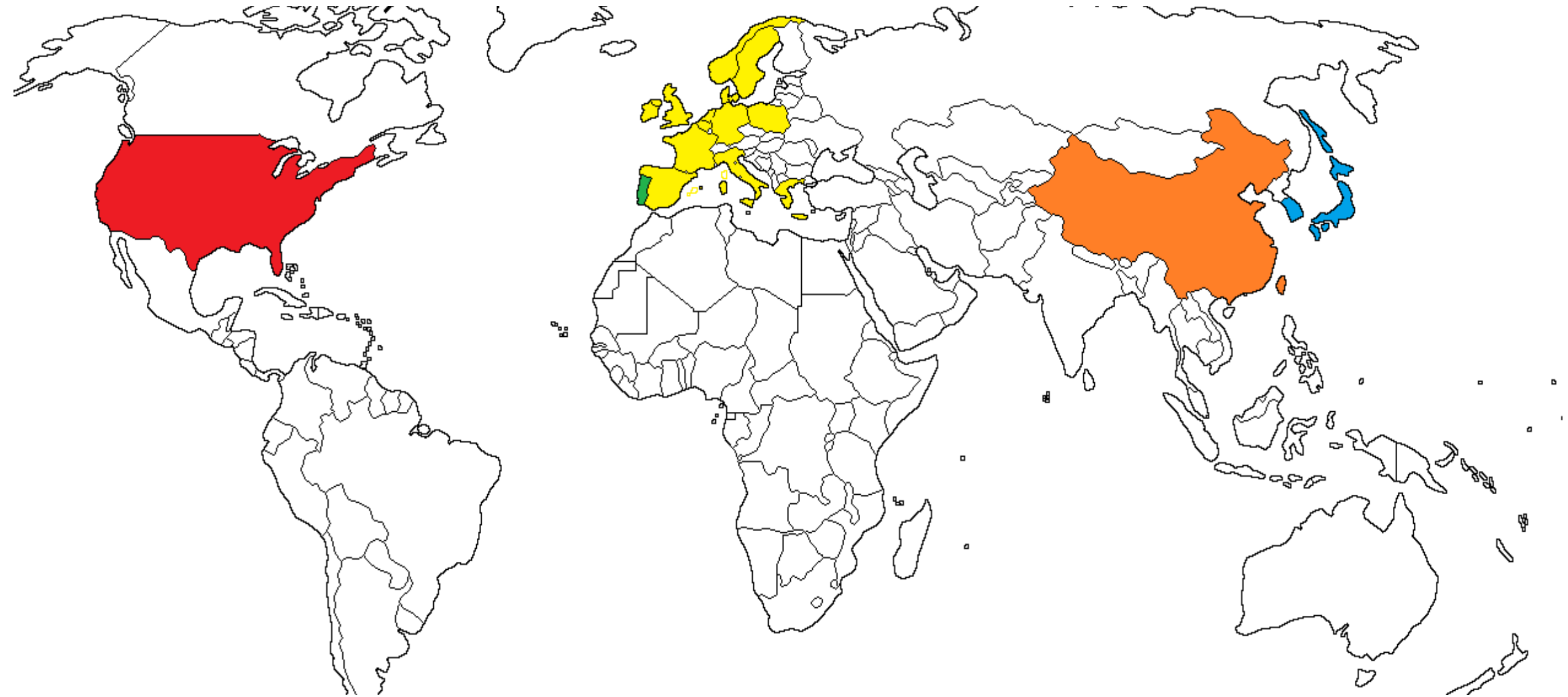
















**PERIODO**

**Jul' 18 – Set' 19**

**N.º UNIDADES**

**1**

**DIMENSÕES GERAIS**

**6m x 6m x 6m**

**PESO**

**~ 15 ton / uni**

**LOCAL FABRICO**

**Porto de Aveiro**

**INSTALAÇÃO**

**Outubro' 18**

**PERIODO OPERACAO**

**1 ano**

**FASE**

**Pré comercial**



**PORTUGUESE OFFSHORE  
RENEWABLE HUB !**

**ADAPTATION . FLEXIBILITY . LOGISTICS SUPPORT . COMPETITIVNESS . CAPACITY RESPONSE**

**RISK MANAGEMENT . DRIVING THE COSTS DOWN**

THANK YOU FOR YOUR  
ATTENTION !



**ASM**  
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