

### WIND PROJECTS LATAM

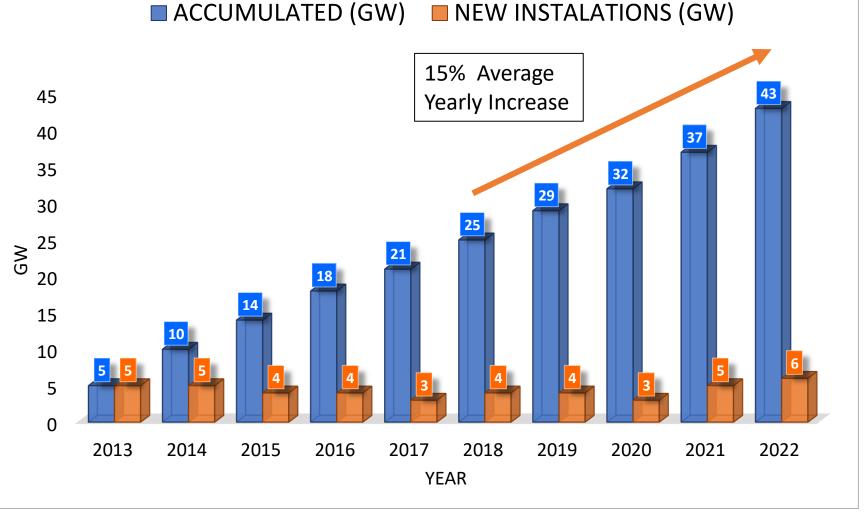


#### ONSHORE WINDMILLS

#### **OFFSHORE WINDMILLS**

## CAPACITY OF WIND ENERGY (GW) IN LATAM

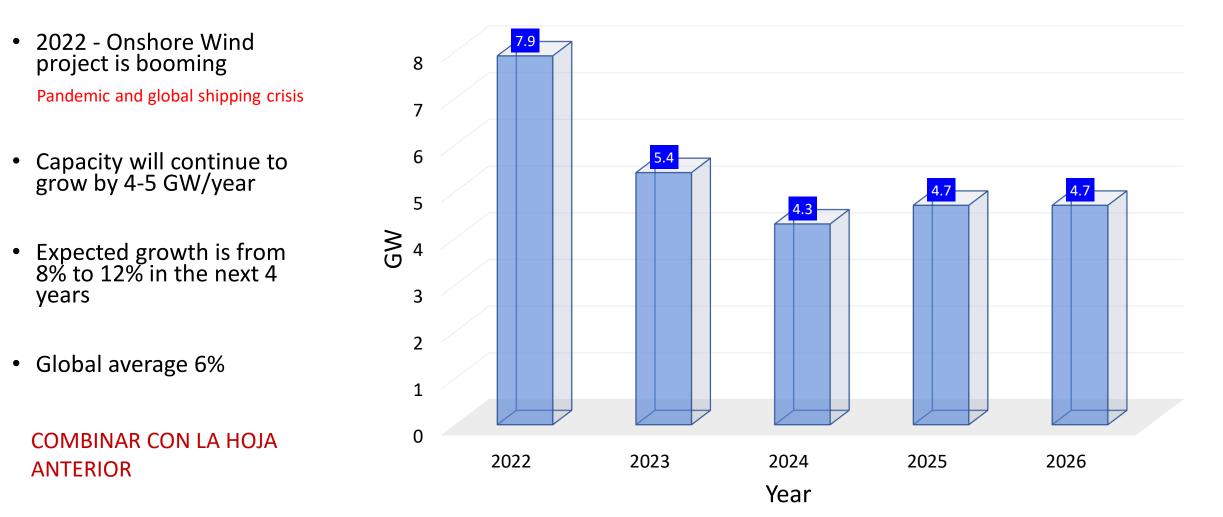
- LATAM Onshore wind Capacity of energy will be 50 GW in 2022
- Capacity of energy increased by 4 to 5 GW/year (2013-2021)
- 2022 will be an exceptional year (6 GW)





## **ONSHORE WIND OUTLOOK (LATAM)**

#### **NEW INSTALLATIONS OF WTG IN GW**



## TOTAL MARKET DISTRIBUTION (50 GW)

- 42% of installed capacity is in Brazil
- 15% of installed capacity is in MX
- 16 % of capacity is in Argentina, Chile and Uruguay
- Other countries represent 27%



0 MW





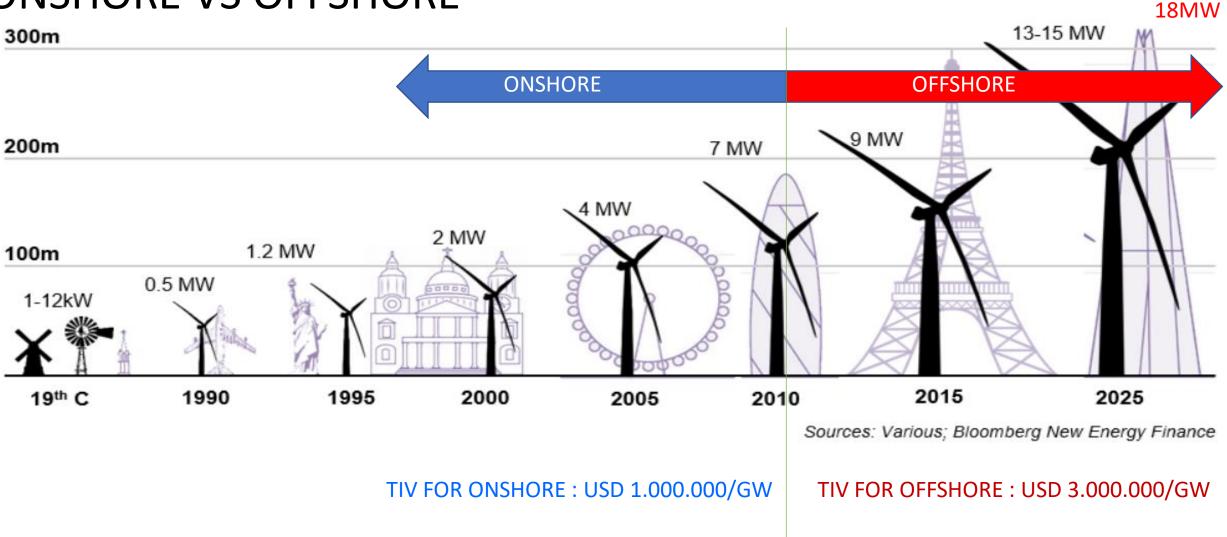
## TRANSPORT BY ROAD





# OFFSHORE WIND LATAM

## EVOLUTION OF WIND TURBINE ONSHORE VS OFFSHORE

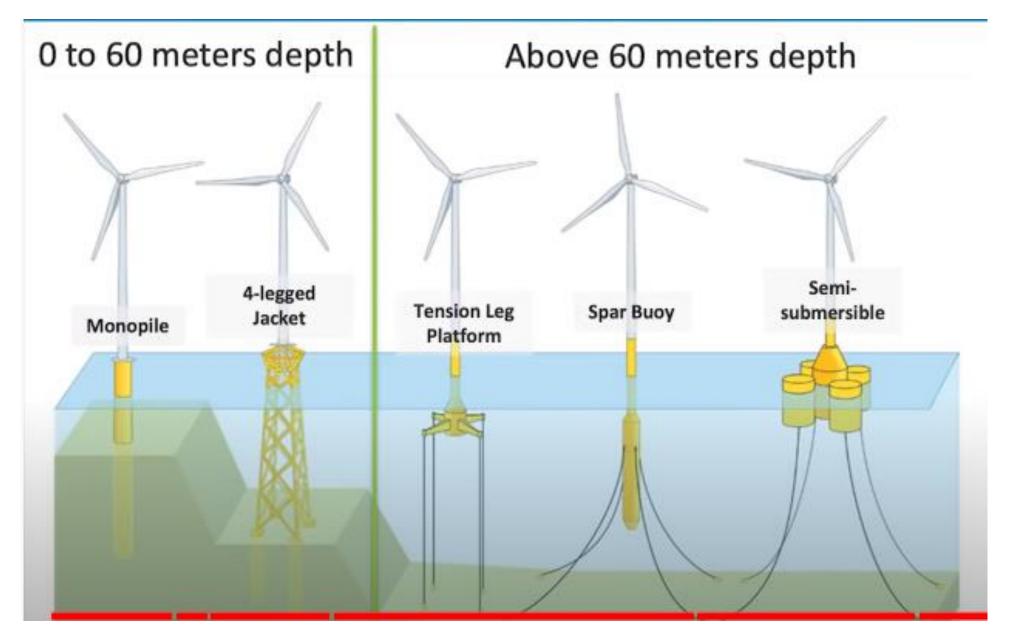


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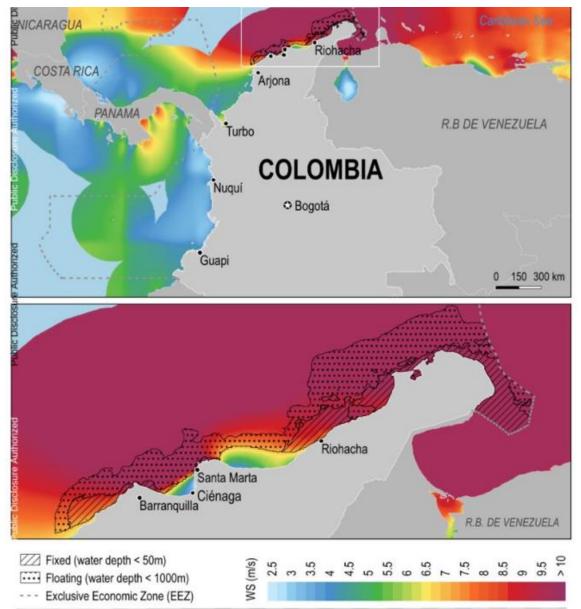
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### **OFFSHORE WIND FARM TYPES**



## OFFSHORE WIND POTENTIAL COLOMBIA

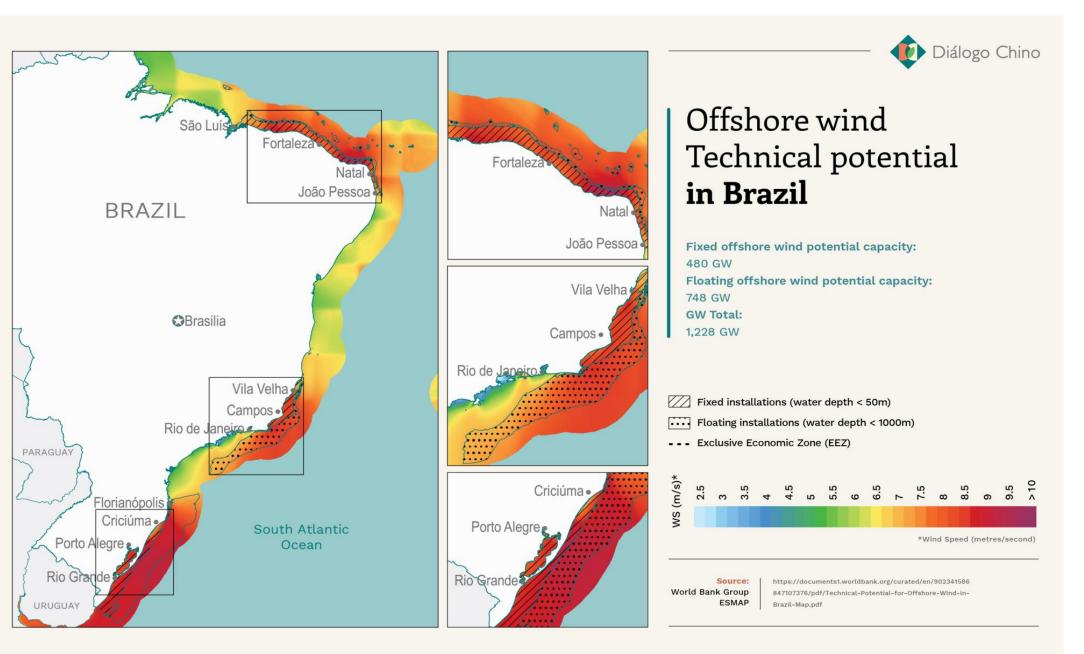


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• 50 GW potential Fixed & Floating

- Wind Speed Average > 10m/s
- 6 GW in development

## **OFFSHORE WIND POTENTIAL BRAZIL**





# OFFSHORE WIND CHALLENGES



## **OFFSHORE WIND CHALLENGES**















## OFFSHORE WIND CHALLENGES AT LATAM PORTS







## OFFSHORE WIND CHALLENGES FOT LATAM PORTS

**REQUESTED NEW INVESTMENTS** 



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## OFFSHORE WIND CHALLENGES FOR LATAM PORTS



Ports will need to invest and upgrade for offshore wind projects.

- Expand storage areas
- Reinforce docks
- Improve drafts
- Other civil works

Ports of Europe must invest US\$ 7.0 Billion by 2030, according to WindEurope source

#### **IMPROVEMENTS**

- AREA 20 HECTARES per 100 WTG
- DOCK CAPACITY 20 Tons/m2
- ➢ WATER DRAFT 12-14 m

#### THANKS FOR YOUR TIME...



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Address Wood