







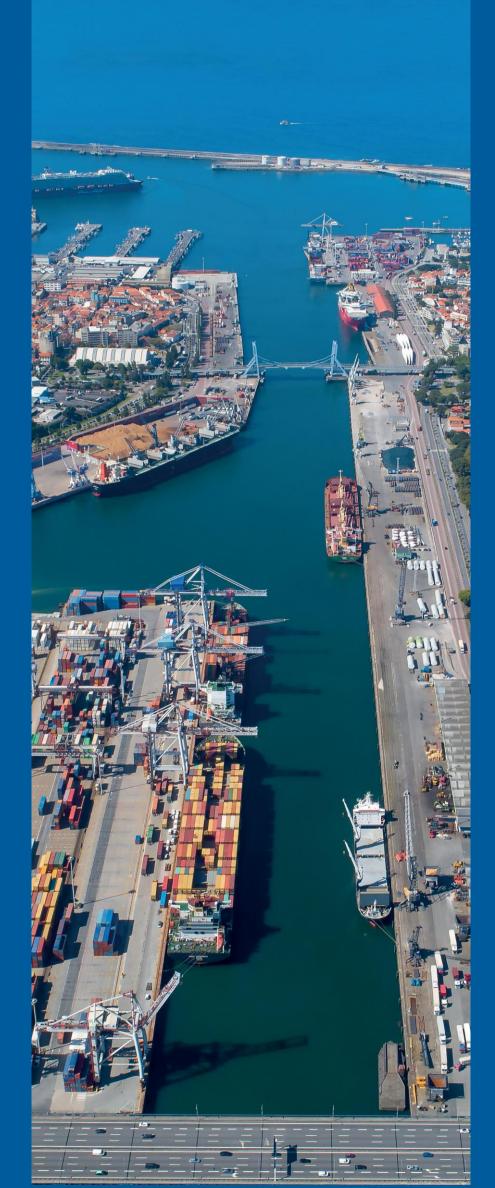


SUSTAINABILITY AND ENERGY TRANSITION

Hugo Lopes

Head of Development and Sustainability



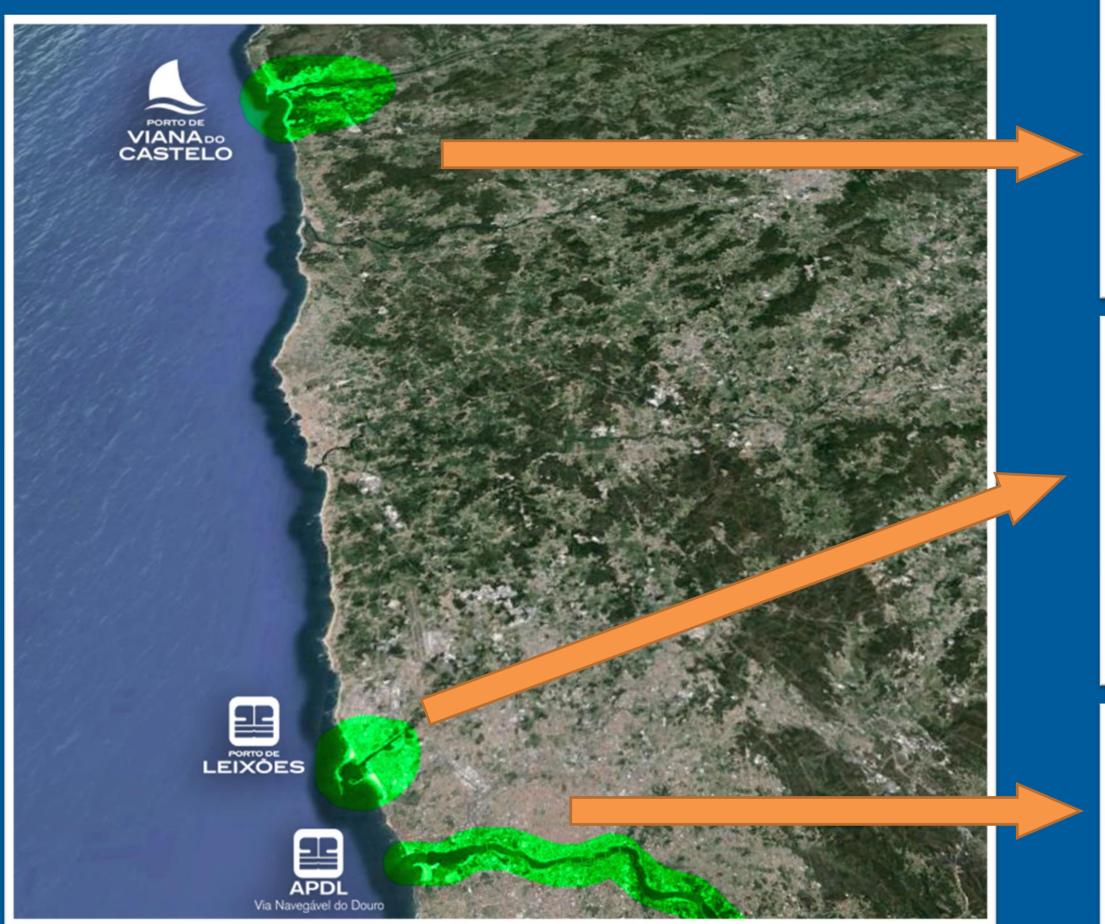


WHO WE ARE?





BUSINESS UNITS





Viana



Leixões



Douro

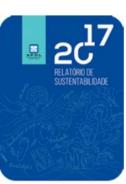




SUSTAINABILITY AT APDL



Relatório de



Relatório de Sustentabilidade



Relatório de 2018



Relatório de Sustentabilidade



Relatório de Sustentabilidade



Relatório de



Relatório de



Relatório de Relatório de

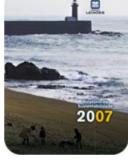




Relatório de Sustentabilidade



Relatório de 2006



Relatório de 2007



Relatório de Sustentabilidade 2008



Relatório de Sustentabilidade 2009







OBJETIVO:

MONITORIZAR E MINIMIZAR OS IMPACTES AMBIENTAIS





CRIAR VALOR E ENVOLVER OS PARCEIROS DE NEGÓCIO NOS COMPROMISSOS COM A SUSTENTABILIDADE



OBJETIVO:

VALORIZAÇÃO PROFISSIONAL E PESSOAL DAS PESSOAS **QUE TRABALHAM NA EMPRESA**



OBIETIVO:

PROMOVER A RESPONSABILIDADE SOCIAL CORPORATIVA E A INTERAÇÃO COM AS COMUNIDADES LOCAIS







ENVIRONMENTAL CHALLENGES



Urban Harbor

About 2.5 Million People Live Within a 50 km Radius of Port of Leixões



European Green Deal

50% Reduction in Emissions by 2030

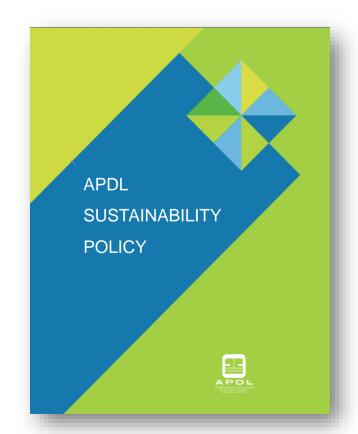
Climate Neutrality by 2050



EU Fit for 55 Package

EU ETS

40 % Energy Produced from RE





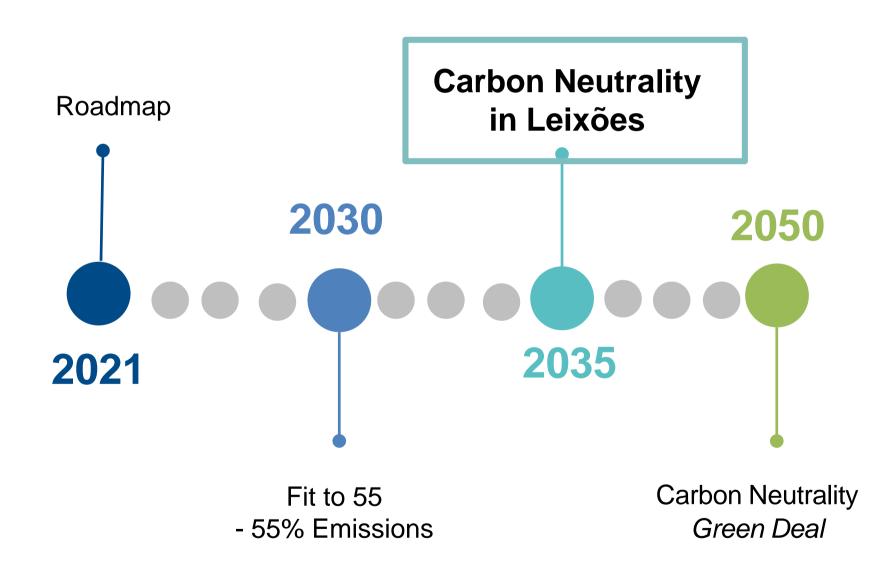


ON TOP OF IT.....



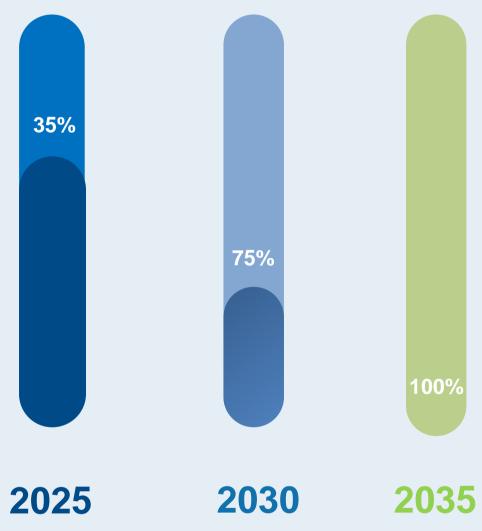
HOW?

Anticipating EU and Fit for 55 goals due to Climate Emergency



Being resilient and taking action...

Emission Reduction







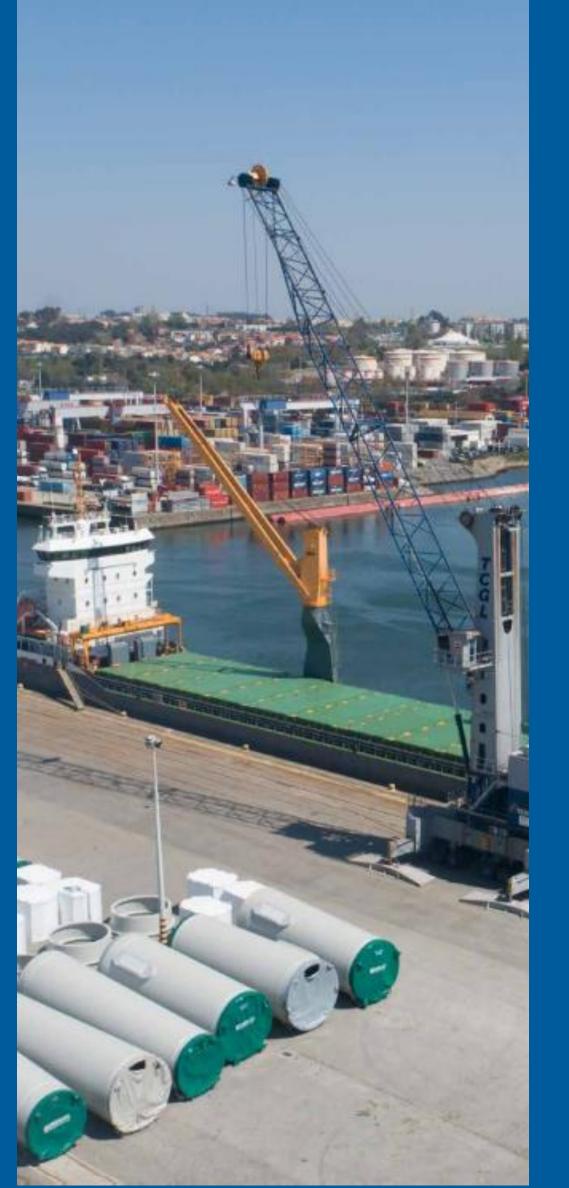


DECARBONIZATION

ENERGY TRANSITION

DIGITALIZATION

2035APDL



BUSINESS DIVERSIFICATION

ACTION PLANS





RENEWABLE ENERGY









 PV Panels on Roofs of Buildings, Parking Lots and Floating Solar Panels





- Integration of Renewable Energy into Electricity Grids
- Producing up to 35 GWh/year (Can be increased by producing in other APDL domains)





Leixões









Viana do Castelo test site may evolved to become a <u>strategic HUB for</u> <u>Offshore Renewables</u>















ELETRIFICATION OF TERMINALS

(OPS - ONSHORE POWER SUPPLY)



SHORE SIDE

Onboard Connector

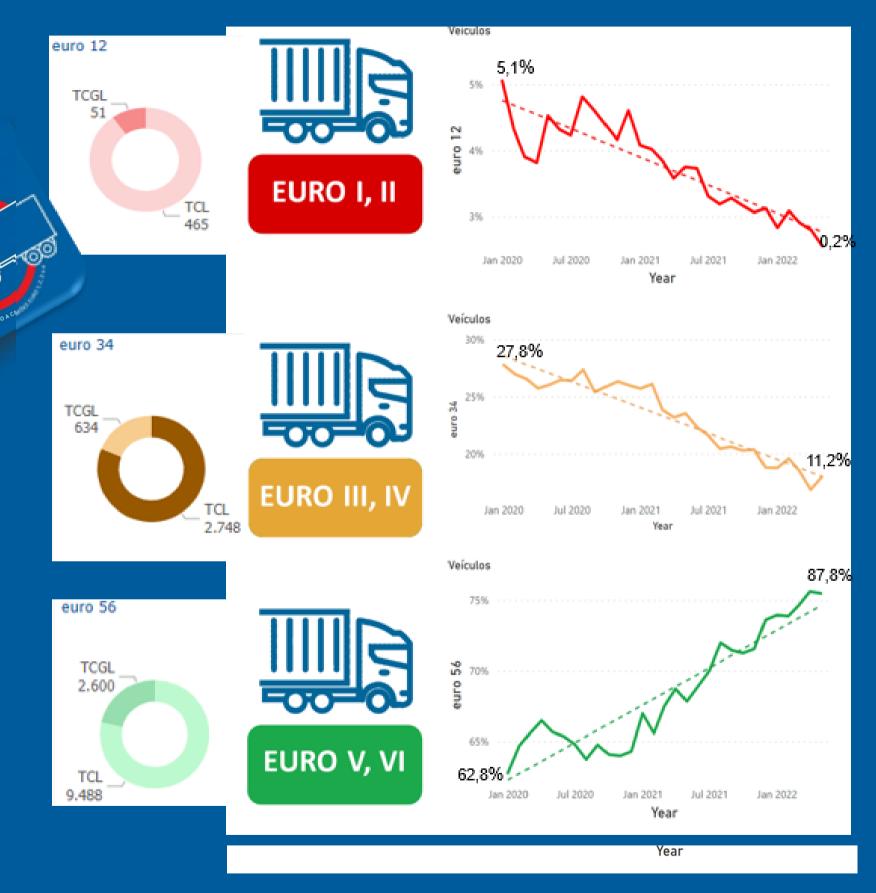
Frequency/Transformer
Convertor

SHORE SIDE

Power Source
Micro Turbine / Grid Power / Hybrid
Heat Recovery System

- Connection to High Voltage Network (HV)
- Development of Medium Voltage Network (MV)
- Pilot Development and Implementation
- OPS in all Docks
- +40 Million €

DECARBONIZATION



 Prohibiting the entry of trucks with Euro I, II, III and IV certification in the Port



#2035APDL

DECARBONIZATION



Electrification of Port Activities (forklifts, reachstackers, cranes and other equipment)







- Electric Vehicles Charging Stations
- Electric shuttle for port workers





ALTERNATIVE FUELS

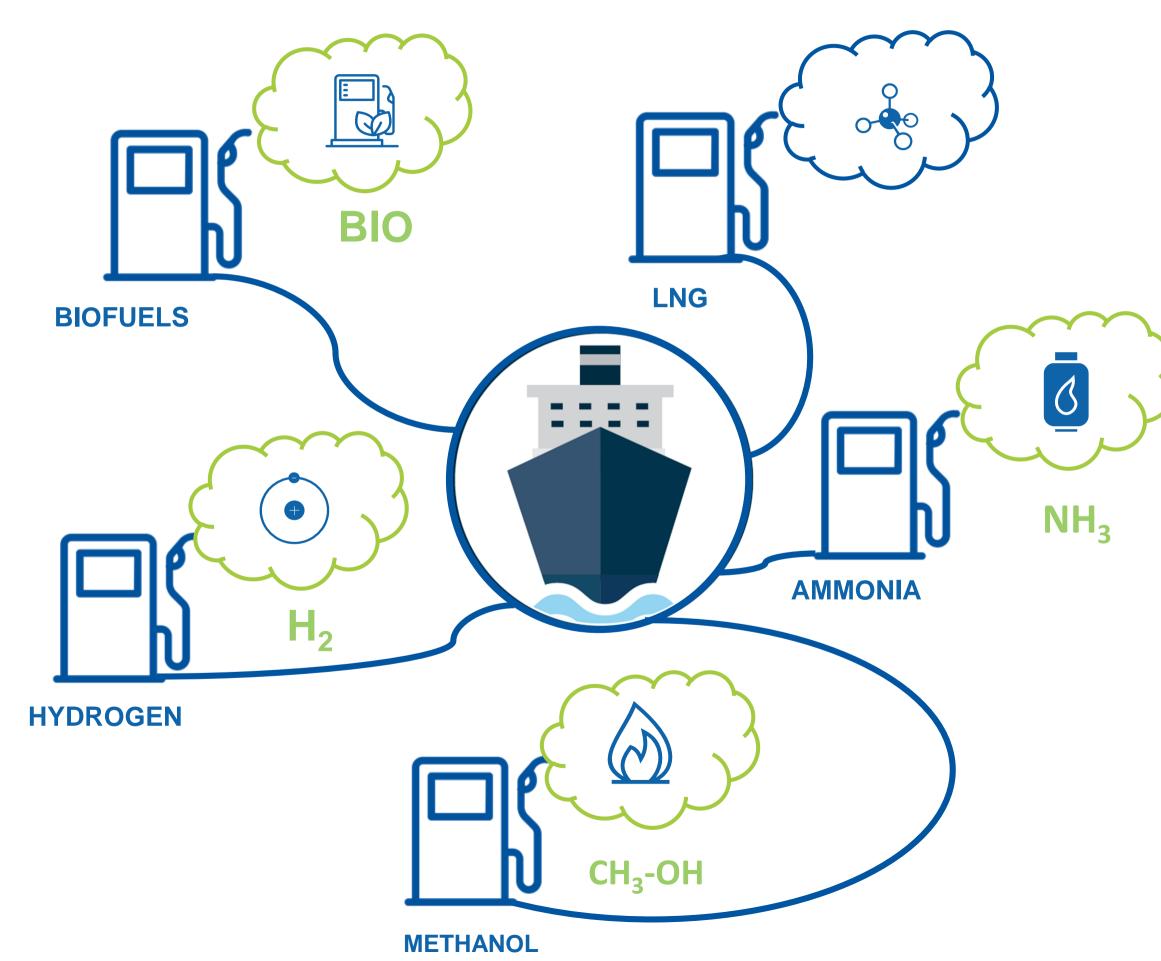
Monitoring demand for Alternative Fuels

Development of a Biodiesel Pilot

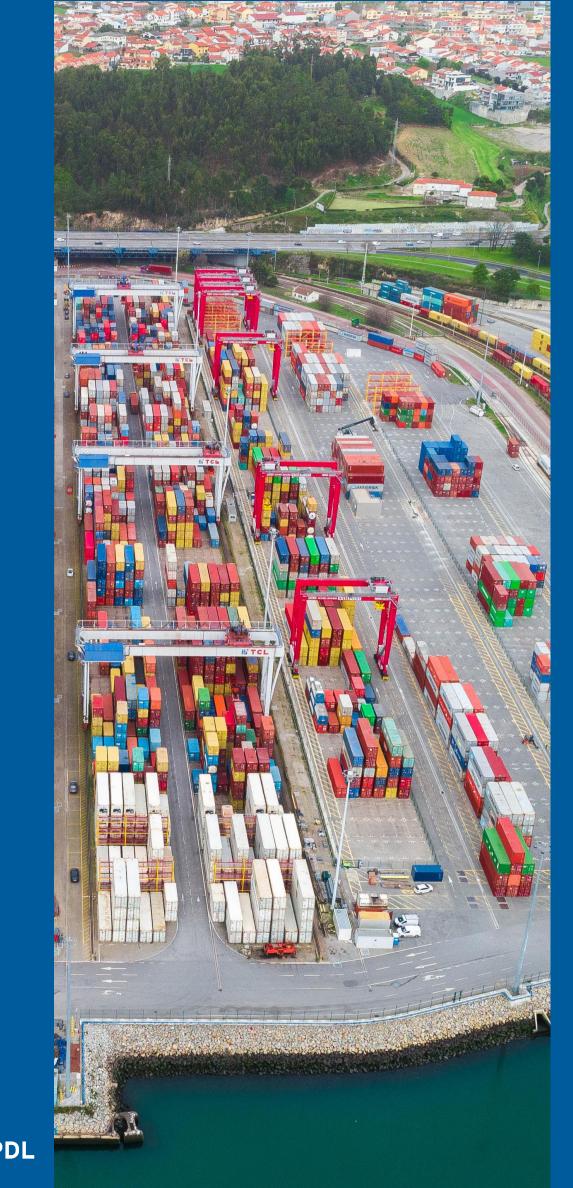
Introduction of Carbon Rate

 Port Fees Reduction for Ships with Better Environmental Performance

- Green Fuels Storage (Hydrogen*, Ammonia, Methanol**)
 - *Green H2 Production
 - ** PRR H2Driven. *Agendas mobilizadoras*



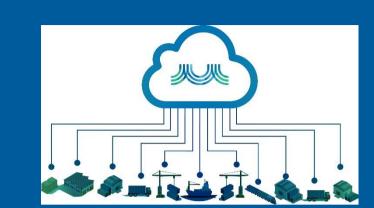
#2035APDL



DIGITALIZATION

+ EFFICIENCY + SPEED

- EMISSIONS - ENERGY CONSUMPTION







loT



BlockChain

























URBAN, INTELIGENT AND SUSTAINABLE PORT

VISION FOR 2035

Be an international reference port in southern Europe in the transition to an energy system based on the use of its own natural resources, with the ambition of being a self-sufficient and net zero emissions port



USING RENEWABLE ENERGY AS THE MAIN SOURCE OF ENERGY



SELF-SUFFICIENT PORT



REDUCE CARBON FOOTPRINT



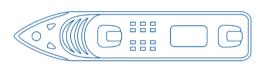
PUBLIC HEALTH (IMPROVING AIR QUALITY IN THE PORT)



STRENGTHEN RELATIONS WITH **SURROUNDING COMMUNITY**



Excellent City-Port Relationship



Perfect Experience for Passengers





Economic Sustainability



Efficient Operations



Sustainable Development

Social Responsibility Cooperation and Collaboration

Efficiency

WE CREATE MOBILITY AND VALUE SUSTAINABILITY...





THANK Y U!





#2035APDL
United for progress, committed to the planet



HUGO LOPES hugo.lopes@apdl.pt

Development and Sustainability