

# Decarbonising transport 2023





# NEXT GENERATION LOGISTICS AND MATERIALS MANAGEMENT

END TO END MANAGED SERVICE MODEL



# NEXT GENERATION LOGISTICS AND MATERIALS MANAGEMENT

LOCAL KNOWLEDGE, GLOBAL REACH



**1500**  
PERSONNEL



**60+**  
OPERATING  
LOCATIONS  
across 9 countries



**1.3**  
MILLION TONNES  
of deck cargo  
handled annually

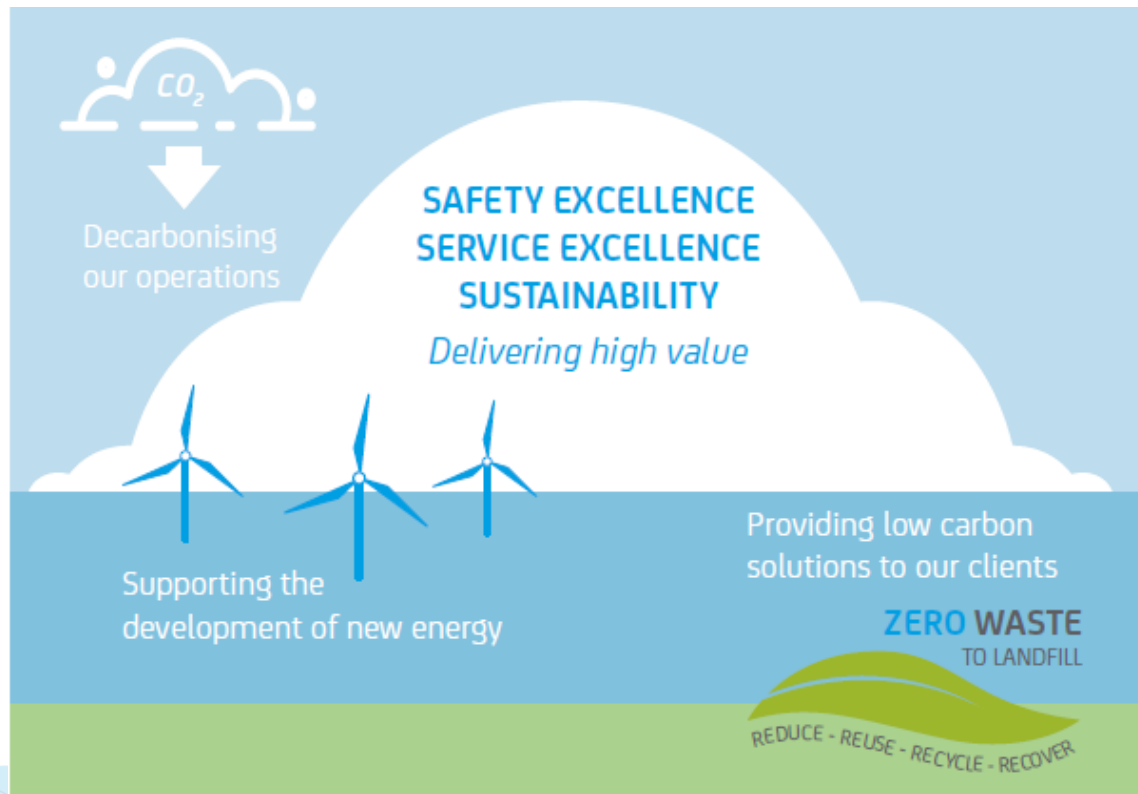


DECARBONISING TRANSPORT - ALL ENERGY

May 2022

# ENERGY TRANSITION STRATEGY

TOWARDS A SUSTAINABLE ENERGY SYSTEM



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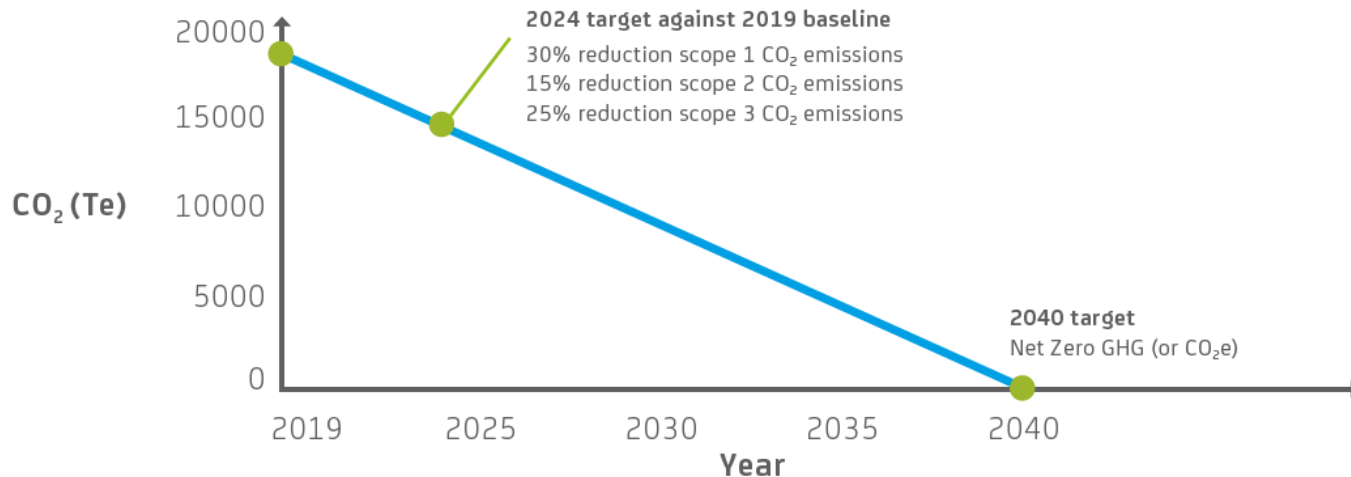
May 2022



# OUR COMMITMENT TOWARDS THE ENVIRONMENT



NET ZERO GHG EMISSIONS BEFORE 2040



ASCO is committed to reducing its emissions and exploring low-carbon alternatives wherever possible.

Our strategy is to sustainably reduce our emissions to the lowest possible level before exploring any carbon offsetting strategies that will bring our remaining carbon output to net zero.

# ASCO'S DECARBONISATION ROADMAP



## ASCO SUSTAINABILITY COMMITTEE



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# STRATEGIC STREAMS

## ENVIRONMENTAL SUSTAINABILITY



Scope 1 CO<sub>2</sub> emission  
reduction

Low carbon transport

Scope 2 CO<sub>2</sub> emission  
reduction

Low carbon facilities

Scope 3 CO<sub>2</sub> emission  
reduction

Sustainable procurement  
and business travel

Water Management

Waste Management

Biodiversity

Sustainability Culture

Workforce and community  
engagement

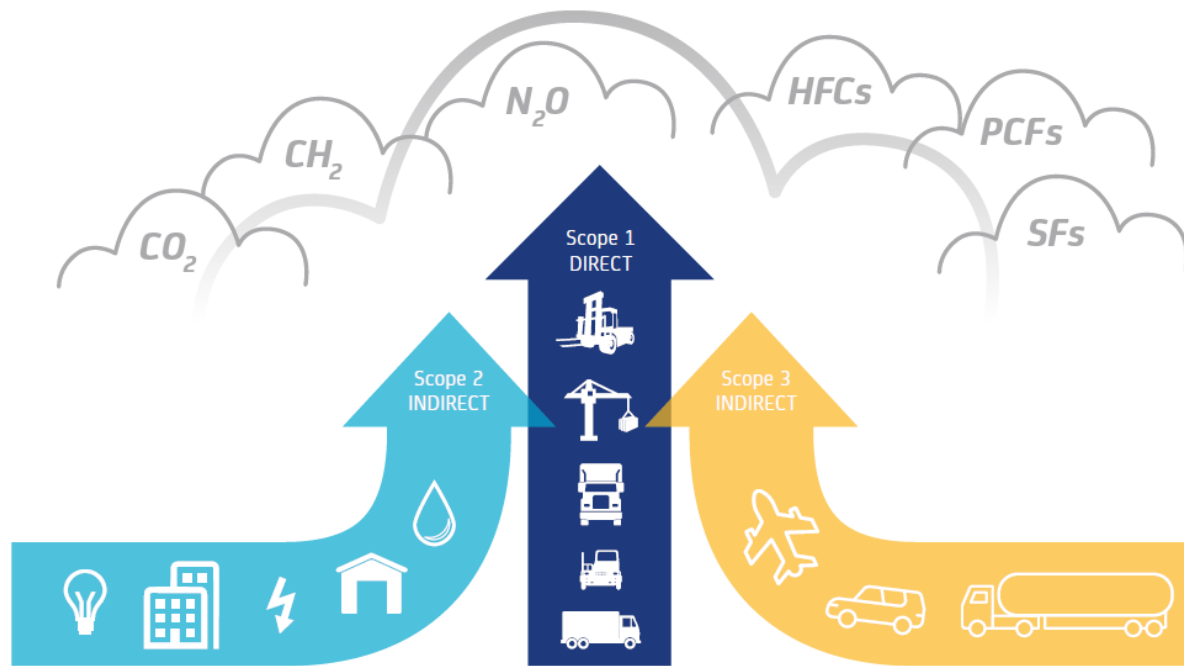
Work practice review

Data quality and  
availability



# OUR COMMITMENT TOWARDS THE ENVIRONMENT

## ASCO CO<sub>2</sub> EMISSIONS



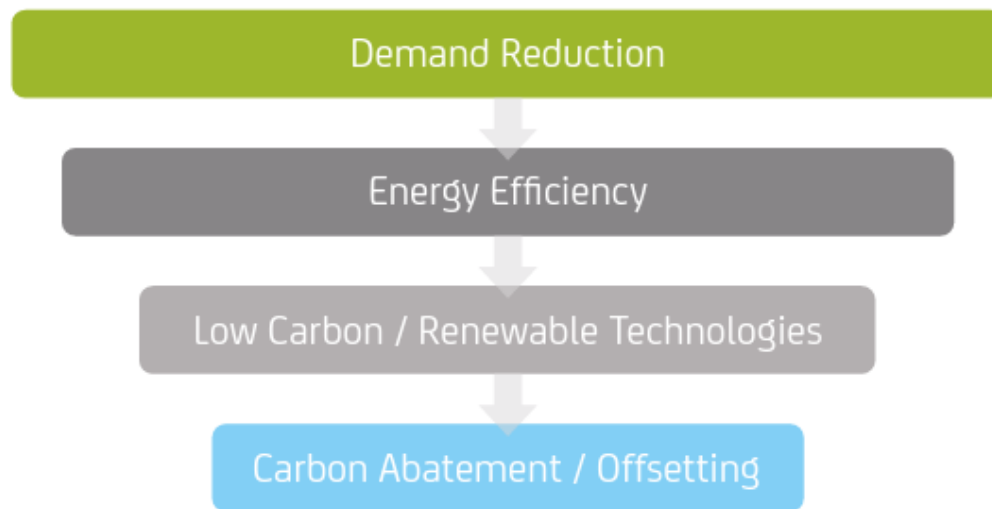
Reduce energy waste from ASCO buildings and move to sustainable energy

Transition to clean energy for all plant and vehicles

Increased use of communication technology to reduce business travel

The principles used to **develop our decarbonisation strategy** are based on ISO 14064, *"Guidance for quantification and reporting GHG emissions"* and the Energy Management Hierarchy.

# THE ENERGY MANAGEMENT HIERARCHY



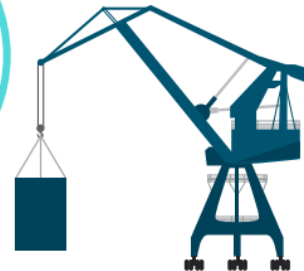
# REDUCING SCOPE 1 CO<sub>2</sub> EMISSIONS AGAINST 2019 BASELINE

## 2022 ACHIEVEMENTS



### LOW CARBON FLEET

- Continue to assess our global fleet and change to suitable sustainable alternatives.
- Continue to transition our light vehicle fleet to electric (5 new electric vans and 2 hybrid mini buses in the UK).
- Transitioned our HGV, crane and quayside forklift fleet from diesel fossil-fuel to Hydrotreated Vegetable Oil (HVO) renewable-fuel in the UK (Peterhead and Great Yarmouth).
- Explored the use of HVO or alternative renewable fuels in other geographies.



# HVO TRIALS

## CO<sub>2</sub> SAVING AND TRIAL OVERVIEW

Switching fuel to HVO represents a significant emissions reduction



Based on 2022 forecast

	Unit	Diesel	HVO
Volume	Litres	1139043.82	1200000.00
Emission Factor	kgCO <sub>2</sub> e/litre	2.71	0.04
NCV	kWh/litre	10.04	9.53
Energy	kWh	11436000.00	11436000.00
Total CO <sub>2</sub> e	Tonnes	3081.72	42.70
		CO <sub>2</sub> e Saving	3039.02



### Trial Overview and next steps

- Trial carried out in May / June 2021 – Renault Truck
  - Successfully showed no adverse affects on operational performance
  - Journeys typically between Peterhead and Aberdeen
  - Up to a 98.6% reduction in CO<sub>2</sub>e, per vehicle transitioned to HVO
- Another successful trial completed in Feb. 2022 on forklift truck
- Switch of the heavy fleet to HVO: April 2022
- Next step: engage with crane OEM to switch to HVO

### Renault Truck

- **Manufacturer:** Renault
- **Model:** T460 6x2
- **Year:** 2018
- Warranty for use of HVO
- Euro 6 Step C
- Fuel Type: Diesel
- Gross Vehicle Weight – 44 tonnes

# REDUCING SCOPE 2 CO<sub>2</sub> EMISSIONS AGAINST 2019 BASELINE

## 2022 ACHIEVEMENTS



### LOW CARBON FACILITIES

- Switched all light fixtures to LED across our sites in Trinidad and Damhead site in the UK.
- 300m<sup>2</sup> of solar panels were installed at one of our warehouses in Farsund, Norway, which is expected to reduce our electricity consumption at the site by half. We are also currently working on feasibility studies to expand the solar cells and utilise wind turbines on the base.
- Solar panel feasibility studies carried out in Trinidad, the UK and in Australia
- Green tariffs in place in our UK and Norway electricity contracts.



# REDUCING SCOPE 3 CO<sub>2</sub> EMISSIONS AGAINST 2019 BASELIN

## 2022 ACHIEVEMENTS



### BUSINESS TRAVEL

Our scope 3 emissions are calculated from business travel between our sites.

An increase in scope 3 can be seen in 2022 as we expanded our business in Senegal, which resulted in more flights to and from the UK.

### SUSTAINABLE SUPPLY CHAIN

The ASCO procurement team has included sustainability considerations in our tendering process to promote emissions reduction targets with our suppliers



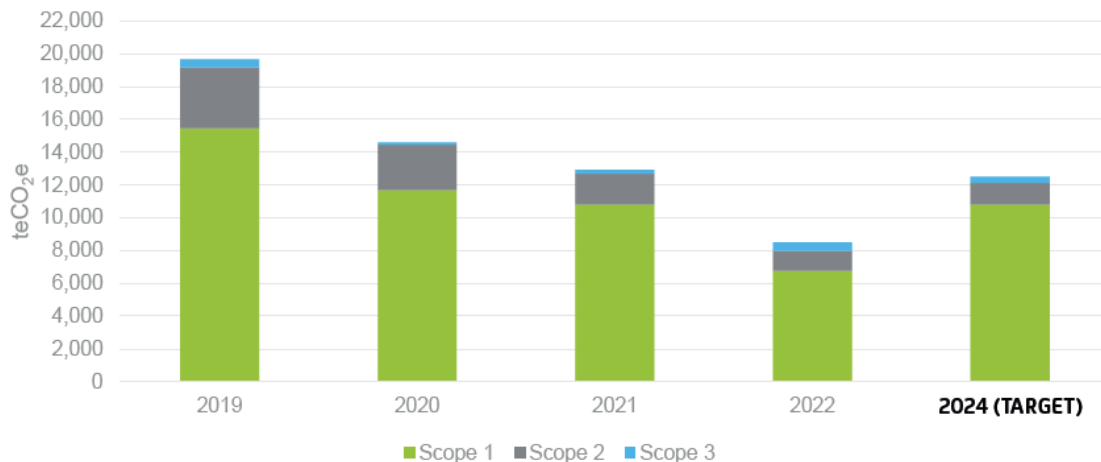


# 2022 ENVIRONMENTAL PERFORMANCE

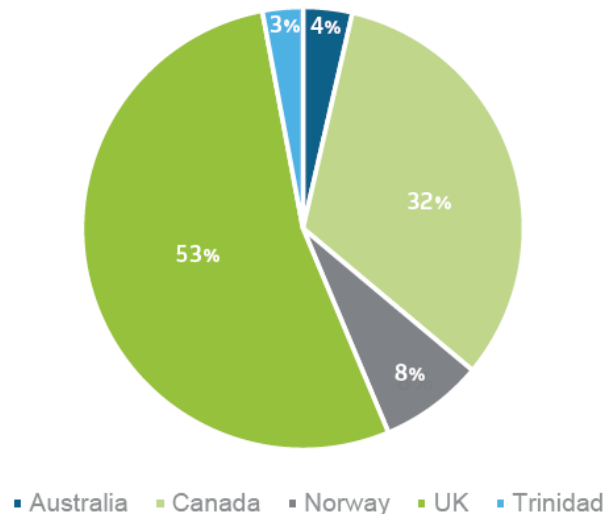
OUR PERFORMING OVERALL 2024 CO<sub>2</sub> EMISSIONS TARGET



ASCO Total Emissions



Country Contribution to Group  
Total CO<sub>2</sub>e Emissions (2022)



# OUR DECARBONISATION JOURNEY



## 2019

- Shore base power installed in Norway
- Digitalisation of supply bases in Norway

## 2020

- Transition to electric of the light vehicles fleet in Norway and the UK
- Heavy Good Vehicle upgraded to Euro 6 standards in the UK
- Environmental Sustainability policy



## 2021

- Operations Control Centre launched in Tananger (NO) and in Aberdeen (UK)



## 2022

- Switch to HVO of the Heavy Good Vehicles, cranes and forklifts in the UK
- Change to LED in all our warehouses in Trinidad and in Damhead, UK
- All general waste diverted from landfill in the UK
- Sustainable procurement with sustainability performance criteria included in tender process



## 2023

- CO2 data reporting and visualisation – software-based solution
- Resource management and behavioural change campaigns to save energy, water and materials usage.
- HVO expansion
- Solar panel business case

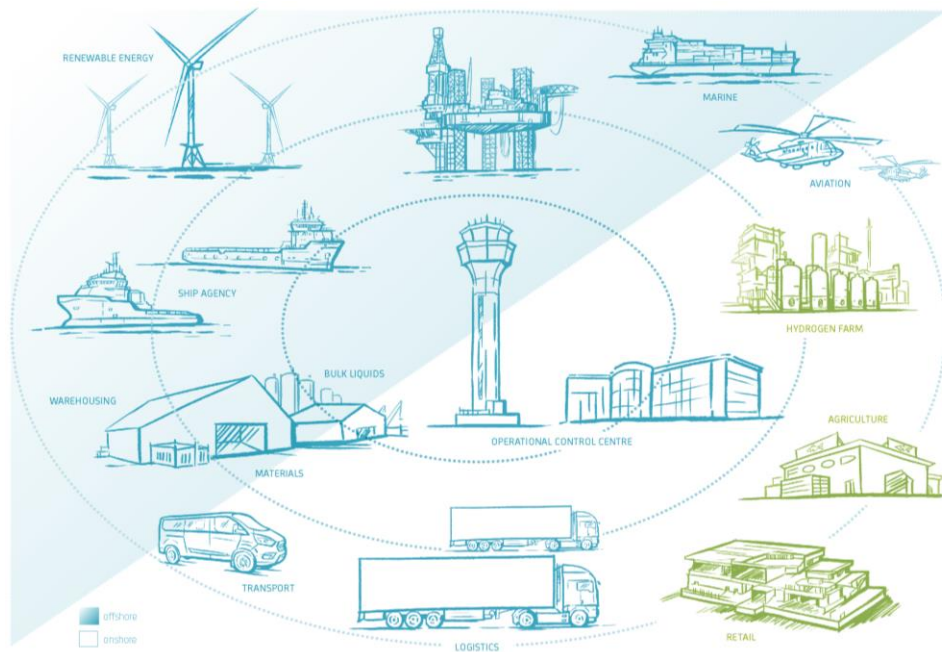




# OPERATIONS CONTROL CENTRE

SAFE, LEAN AND SUSTAINABLE OPERATIONS

ASCO



Data-driven Operations Control Centre improves planning and visibility and ultimately drives efficiencies.



Delivering transformational change through our leading systems

**iLMS**

Logistics management, integrated

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# LOGISTICS CONSOLIDATION AND COORDINATION

## LEVERAGING LOCAL SUPPLY CHAIN



- Logistics consolidation (Total)
- Ports coordination (Enquest)



AROUND **1700** TONNES  
RECEIVED OVER THE QUAYSIDE



**878** METRES OF RISERS  
DE-CONTAMINATED BY NORM  
SOLUTIONS.



**135** TONNES OF  
CONTAINERISED WASTE WORKED



**2,400** TONNES PRODUCED  
WATER AND FLUSHINGS RECEIVED



**0** REPORTED HSSEQ INCIDENTS

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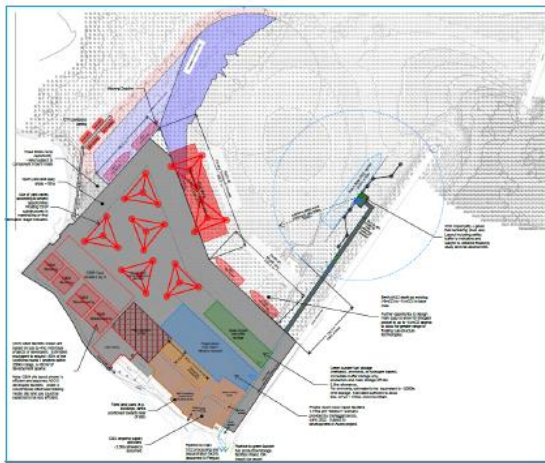
# SHARED MODEL

## ASSETS AND RESOURCES





# TRANSFORMING SUPPLY BASES TO ACCELERATE THE ENERGY TRANSITION



## Transform, develop, extend existing bases:

- Capable of serving cross sector projects including wind, decommissioning, O&G, CO2 shipping and alternative fuels at the same time.
- To ensure efficient operations and low carbon footprint (production of renewables energy or microgrid).



# HOW CAN WE DECARBONISE THE SECTOR TOGETHER?



- HVO  
(alternative fuels)
- Best practices/shared knowledge  
(Warehouse optimisation, etc)
- Renewable technology  
(e.g. solar panels)



## New energy development

- Wind,
- H<sub>2</sub>, ammonia, methanol
- Microgrid



- Waste and Plastic reduction
- Waste reduction  
(forward planning)

## LOW CARBON SOLUTIONS /MODELS

- Shared models
- Logistics and Materials Management consolidation
- Shore power

# The Essential Partner for Logistics and Materials Management

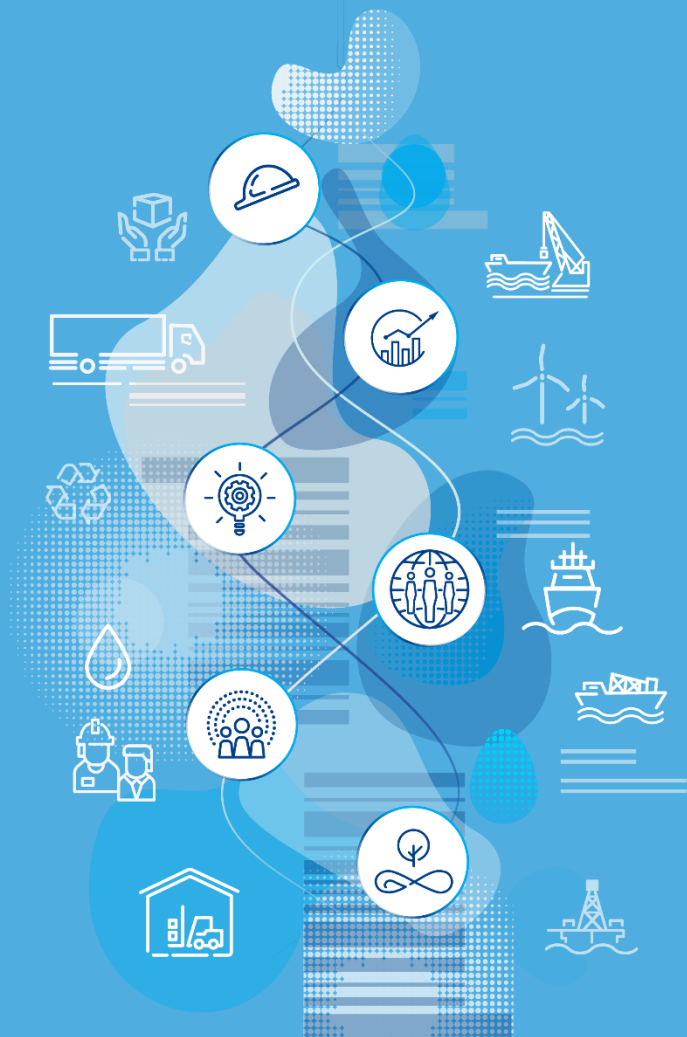
SUPPORTING ALL ASPECTS OF YOUR ENERGY PROJECTS

Port Operator | Managed Service | Project Logistics | Supply Base Transformation



COME AND  
MEET US

Stand D38



# THANK YOU

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