IAPH Award 2023

Sustainable Port Development with State-of-the-art facilities

Sustainable Port Development at Khalifa Port



INTRODUCTION

The Ports Cluster, part of AD Ports Group, owns and operates more than 11 ports and terminals in the UAE and internationally, with an aim of facilitating trade and building capacity whilst connecting Abu Dhabi globally.

The cluster is focused on achieving sustainable growth, forging partnerships with local and global market leaders, which include but not limited to e ADNOC, COSCO SHIPPING Ports, CMA CGM Group, MSC Shipping, and Autoterminal Barcelona, with the goal of diversifying and expanding capacity to meet the growing and diverse needs of customers while solidifying Abu Dhabi as a global trade and logistics hub.

Our 11 ports offer a wide range of commercial and leisure services. We have integrated several innovative and efficient technologies into our port operations, thus making them some of the region's most sustainable and technologically advanced ports.







CONTRIBUTION TO ECONOMY

DEVELOPING CAPACITY ACROSS THE UAE

Community Ports

Supporting the oil and gas sector

Serving the local communities

Offering an effective transportation system

Supporting the fishing industry

Delma Port

ila Port

Sir Bani Yas Cruise Beach

Zayed Port

Al Mirfa Port

21 berths

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5.3km2 in size

Abu Dhabi's main port for 40 years

143,000m2 of warehousing and cold storage

1st dedicated Cruise Beach in the Region

Mugharraq Port

Catering to offshore Oil & Gas AED 400 million expansion underway Lesser Tunb 🐁 👘 🔍 Greater Tunb



Abu _{Musa}

Khalifa Port

One of the world's fastest growing ports Deepwater port – 18.5m 3 Container, Bulk & GC & Ro-Ro, liquid terminals AED4 billion expansion underway

Fujairah Terminals

35-year concession with Port of Fujairah AED1 billion investment 1 million TEU a year vessels of up to 9,000 TEU

🦲 Shahama Port

Musaffah Port

Linked to Musaffah Channel Draft of 8m & several quays





"The AD Ports Group capital projects and the tourism it brought in supported an estimated 1,1% of Abu Dhabi gross value added in 2020, or AED 4.9 billion; out of which 0.9% is the Ports Cluster's contribution."

"The Ports Cluster made the largest contribution, supporting 0.51% of the UAE's GDP."



SUSTAINABLE PORT DEVELOPMENT AT KHALIFA PORT

CONTINUOUS DEVELOPMENT & GROWTH AT KHALIFA PORT





KEY PILLARS OF ESG STRATEGY





OUR NUMBERS SAY EVERYTHING...



3 of the top 5

Global Shipping Lines will hub over KP by 2024

25 Million Tons

General Cargo capacity by 2024

11 Million TEUS

Capacity by 2024

44 Million + Tons

Record volume across our ports in 2021

6 Kms

New quay wall in Khalifa Port

4.3 Million TEUs

Highest container volumes

2.5 Million Tons

A 15-year record steel volume across ports in 2021

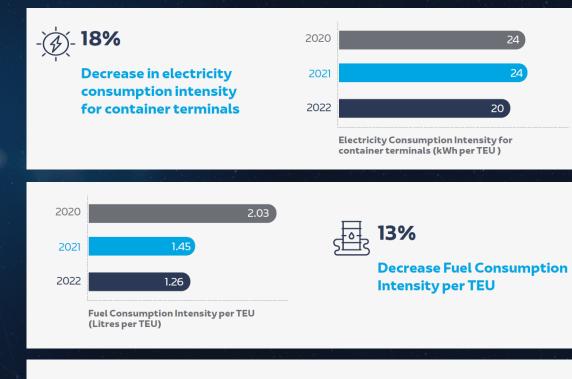
AED 4 Billion Geographical Expansion

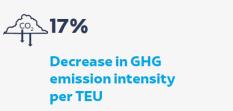
Development pipeline

Several Projects e.g. Iraq, Egypt, Jordan, Bahrain, Angola etc.

LEADING SUSTAINABLE OPERATIONS

We underpin our journey towards a low-carbon transformation through energy optimization and moving away from fossil fuels through the integration of renewable energy across our operations.







GHG emission intensity per TEU (tCO₂ per TEU)

ENVIRONMENTAL AND SUSTAINABILITY

Net Zero Complying Warehouse

In 2022, we successfully constructed first carbon neutral warehouse at Khalifa Port by installing 1.2 MW of solar panels at roof. The warehouse will be operated by Electrical forklifts thus reducing the carbon footprint from ancillary sources.



Embodied Carbon

Integrate materials with reduced embodied carbon such as in case of construction of Third container terminal at Khalifa Port for CMA. Carry out cost verse carbon assessments through the design process



Coral Relocation Monitoring

In 2020, we successfully relocated healthy corals to the environmental breakwater near Ras Ghanada to protect them from the development footprint of Khalifa Port. In 2021, we collaborated with New York University to monitor the relocated corals and publish results.



Nature based solutions

Integrate eco engineering solutions into marine infrastructure. For example in Saadiyat marine eco mattresses have been installed. In addition, in partnership with ADQ trialing eco sewalls. Both aim to enhance marine biodoverity.



Air & Wster Quality Monitoring

The energy efficiency projects undertaken at at Khalifa Port are planned to prevent adverse environmental impacts arising out of developmental activities. Regular monitoring of air quality provides us with relevant data for efficient environmental planning.



Spiny-tailed Lizard Relocation

In collaboration with the Environment Agency Abu Dhabi, we have commenced a two-year relocation project for spiny-tailed lizards, which the IUCN list classifies as vulnerable due to their declining population. The lizards will be relocated to a dedicated conservation area to compensate for the loss of habitat.



Automated Guided Vehicle (AGVs)

Concessionaires at Khalifa Port are encouraged to invoate and Integrate new technology and alternative design solutions



Marine Mammal Migration Study

Undertake marine mammal migration studies. By tracking species movement of migratory, vessel operations can aim to avoid peak migration periods.



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