

TRAINING PROGRAM : Build Your Port Energy Transition Plan

GREEN MARINE MED
MEDITERRANEAN GREEN SHIPPING NETWORK



With the support of:

Online: November 18-21, 2024
In-person: November 25-28, 2024

Barcelona
from 18 to 28 November 2024





> ENERGY TRANSITION: Build Your Port Energy Transition Plan

> COURSE OBJECTIVES

To gain first-hand knowledge of the strategies of the Port-Logistics Communities related to energy transition, environment protection circular economy and sustainability focused on hydrogen and its derivatives.

To discover new visions concerning the management of ports from the perspective of sustainability based on operations and infrastructures, and the steps to be taken to transform strategy into action



November 2024
Hours: 36



Modality:
Hybrid / Barcelona

Tuition

General Tuition: €1,100- FREE

This course, originally valued at €1,100, is offered for free thanks to the generous funding from the European Union.

Registration is open until 11 November, 2024EI

REGISTER HERE

info@escolaeuropea.eu | +34 932 986 070



> Participants' profile

Operation managers, environmental managers, terminal managers, vehicle fleet managers, mobility managers, safety managers, ship fleet managers, energy transition managers, infrastructure managers, port space managers. among others.

> Course Objectives

- The general objective of the course is to raise awareness and provide information to the management and technical staff of port-logistics communities and transport operators on the following specific aspects related to energy transition:
 - Port-Logistics Communities in new economy and a new world
 - Energy transition to new sustainable energy sources
 - How to manage energy transition in Port-logistics communities
 - new sustainable energy sources economy
 - Port operations based on new sustainable energy sources (land and sea)
 - Port infrastructures and equipment for new sustainable energy sources

> How?

- Knowing first-hand the infrastructures, equipment, operators and stakeholders involved in the port ecosystem.
- Learning and experiencing how to design, plan and manage the resources to make the transition to a decarbonized port-logistics community.
- Obtaining knowledge about the current situation in ports-logistics communities and how they face the future through lectures and debates with industry experts.
- Providing training and information to people who will manage and make decisions in port-logistics communities.



LECTURES



Theme 1: Energy Transition Goals

- Decarbonisation objectives
- Legal Framework: a vision from Europe
- Legal Framework: a vision from Africa

Theme 2: Efficiency in Mobility and Port Logistics

- Efficiency in mobility of goods: vessels, trucks and terminal equipment.
- Efficiency in logistics warehouses and port terminals
- Energy geopolitics: Global supply and distribution strategy in Europe and the Mediterranean
- Circular Economy

Theme 3: Electricity

- Renewable energy generation: Typologies, self-consumption, storage, power-purchase agreement (PPA)
- On-shore Power Supply (OPS)
- Intelligent System Management

Theme 4: Zero carbon Fuels & intermodality

- Towards new zero carbon fuels
- Intermodality: railway
- Digitalization for emissions control

Theme 5: How to Build Your Port Energy Transition Plan

WORKSHOPS

- **Maritime Visit to Port of Barcelona**
- **Visit to a container Terminal – APM**
- **Visit to vehicles terminal – Port of Barcelona**
- **Visit to OPS facilities: BEST Terminal and Electrical transformation substation**
- **Visit to LNG & Biofuel Barge for Refueling – Port of Barcelona**
- **Visit to Regasification plant–**
- **Visit to the Energy Community of the Fishermen's Wharf**
- **Visit to Aigües de Barcelona: LIFE NIMBUS Project for the Production of Biomethane from Wastewater Sludge**
- **Visit to TMB facilities – Barcelona**
- **Build Your Port Energy Transition Plan**





ENERGY TRANSITION: Build Your Port Energy PROGRAMME

Course: Build Your Port Energy Transition Plan

**Online:
November 18-21, 2024**



Day 1 - ONLINE: Energy Transition Goals

15:00 Presentation of the course *Eduard Rodés (Escola Europea), Jordi Torrent & Hector Calls (Port de Barcelona)*

15:45 Decarbonization objectives – *Oriol Vilaseca (Vilaseca Consultors SLP)*

16:30 Break

17:00 Legal Framework: a vision from Europe - *Aleix Ponts (Ricardo)*

18:00 Strategic Vision for Green Transition in Egypt - *Akram Soliman (Arab Academy)*

18:30 Strategic Vision for Green Transition in Morocco - *Carlo Alberini (UM6P)*

19:00 End of the day

Day 2 - ONLINE: Efficiency in Mobility and Port Logistics

15:00 Efficiency in mobility of goods: vessels, trucks and terminal equipment. - *Sergi Saurí (Cenit - UPC)*

16:00 Efficiency in logistics warehouses and port terminals – *Pim van Leeuwen (Portwise)*

17 :00 Break

17:30 Energy geopolitics: supply and distribution strategy in Europe and the Mediterranean – *Jaume Morron (EOLICCAT)*

18:30 Circular Economy - *Oriol Vilaseca (Vilaseca Consultors SLP)*

19:15 End of the day

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Day 3 - ONLINE: Electricity

15:00 Renewable energy generation: Typologies, self-consumption, storage, power-purchase agreement (PPA) – *Roberto Villafáfila (UPC - Universitat Politècnica de Catalunya)*

16:30 Break

17:00 On-shore Power Supply (OPS) - *Ana Arévalo (Head ShorePower at Port of Barcelona)*

18:30 Smart Grid – *Javier Cervera (Balearia)*

19:15 End of the day

Day 4 - ONLINE: Zero carbon Fuels & intermodality

15:00 Towards new zero carbon fuels - *Daniel Ruiz (Sustainable Fuels Manager at Port of Barcelona)*

16:30 Break

17:00 Intermodality: railway – *Matteo Boschian Cuch (CENIT)*

18:00 Digitalization for emissions control – *Piet Opstaele (Manager Innovation in Port Antwerp)*

19:00 End of the day



Course: Build Your Port Energy Transition Plan

**In-person:
November 25-28, 2024**



Day 5 - In-Person: Welcome

09:00 How to organise the transition in port environments – *Maurici Hervas*

10:30 Break

11:00 The role of port authorities - *Hector Calls (Director of Environmental Sustainability and Energy Transition)*

13:00 *Lunch break (included)*

15:00 Maritime visit

17:00 Presentation of Workshop “Build Your Port Energy Transition Plan”

19:00 End of the day

Day 6 - In-Person: visits to the port terminals

8:30 Meeting point: visits to facilities

09:00 Visit to a Container Terminal, Vehicle Terminal, and to the Energy Community of the Fishermen's Wharf

13:30 *Lunch break (included)*

15:00 Workshop “Build Your Port Energy Transition Plan”

18:00 End of the day



Course: Build Your Port Energy Transition Plan

**In-person:
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Day 7 - In-Person: OPS

08:30 Meeting point: visit to facilities

09:00 Visit to OPS: BEST Terminal and Electrical transformation substation, and Project Nimbus at Aigües Barcelona

13:30 Lunch (included)

15:00 Workshop “Build Your Port Energy Transition Plan”

18:00 End of the day

Day 8 - In-Person: LNG & Hydrogen

8:30 Meeting point: visits to facilities

09:00 Visit to Regasification plant, LNG & Biofuel Barge for Refueling, and hydrogen TMB Facilities

13:30 *Lunch break (included)*

15:00 Workshop “Build Your Port Energy Transition Plan”

17:30 *Presentation of the plans*

19:00 Closing Ceremony

19:30 End of the training

