emiTr

Track. Calculate. Take Action.

emiTr is a digital, easy-to-use, inventory of the complex web of a port's emissions, mapping out both direct and indirect sources, developed by ABL in collaboration with Shoreham Port – a UK Trust Port.

As the maritime industry commits to reducing its carbon footprint by 70% by 2050, meaningful change requires addressing the whole shipping value chain. Ports are central to that value chain, and as such, their operations make them significant contributors to maritime emissions, both directly and indirectly. Ports are therefore uniquely positioned to support maritime in reaching its climate goals, by influencing change amongst stakeholders as well as reducing their own emissions profile.

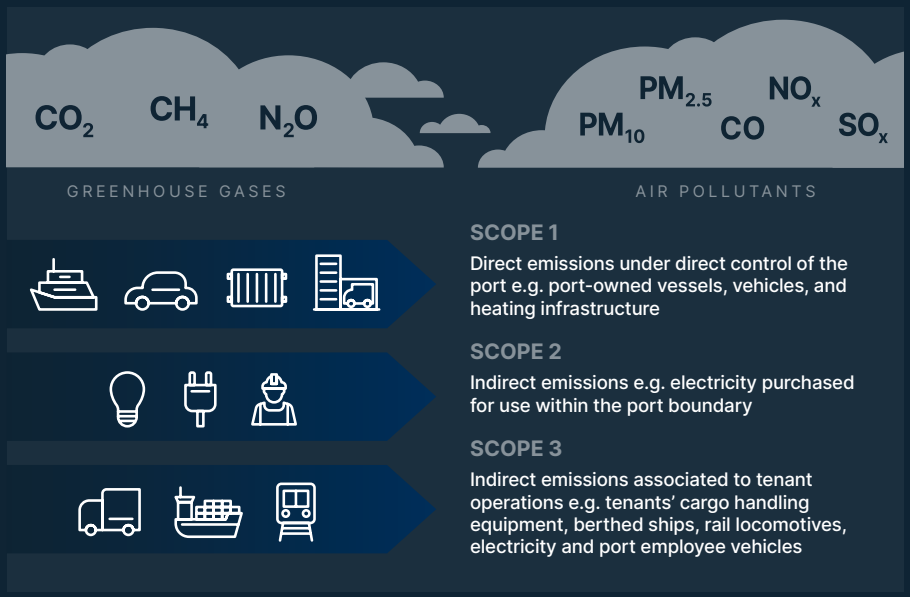
Based upon GEF-UNDP-IMO GloMEEP & IAPH's "Port Emissions Toolkit", emiTr enables ports to visualise and understand their emissions footprint, the potential carbon cost in monetary terms, and to identify the biggest emitters, thereby informing action in line with national and international reduction targets.

The 1st step in emissions reduction is understanding what you are emitting and where it comes from.

How does it work?

The portal is held in PowerBI, which automatically processes and visualises data shared on cloud-hosted excel sheets from the client.

Using emissions factors, the portal calculates the amount of pollutants (PM10, PM2.5, NOx, SOx, CO) and greenhouse gases (CO_2, CH_4, N_2O, [CO_2e]) emitted through the port's operations. It also identifies and calculates three different scopes of emitters.



SCOPE 1

Direct emissions under direct control of the port e.g. port-owned vessels, vehicles, and heating infrastructure

SCOPE 2

Indirect emissions e.g. electricity purchased for use within the port boundary

SCOPE 3

Indirect emissions associated to tenant operations e.g. tenants' cargo handling equipment, berthed ships, rail locomotives, electricity and port employee vehicles

The portal also retrieves the live market price of carbon determined by UK and EU Emissions Schemes, assigning a monetary value to the CO_2e emissions from the port.

> *We are delighted to be working with the team at ABL who are helping us make the identification and tracking of our emissions simple and straightforward to do. This is important data for us to understand the impact we make, and we will use this data to inform decisions in the future as we aim to improve our energy efficiency and reduce pollution across the Port's footprint.*
>
> *We are committed to being part of the change that ensures we as a Port are here in a healthy, inclusive, and sustainable way for years to come.*
>
> **Samantha Woolven, Interim People, Communications & Sustainability Director at Shoreham Port**

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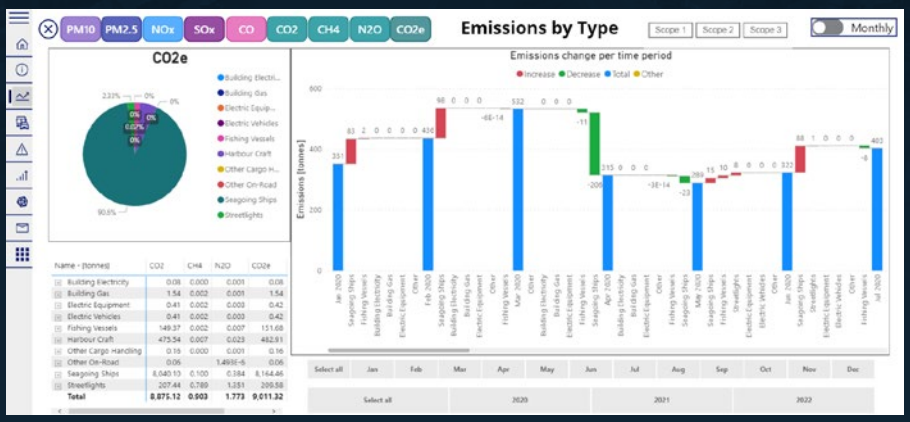
emiTr
Digital Emissions Tracking Tool

Request a Demo:
enquiries.emitr@abl-group.com
+44 (0)20 7264 3250

How does emiTr help?

- Clear visualisation of:
  - What your emissions are
  - Where they come from
  - What they could cost you
  - What presents the highest risk from an ESG standpoint
- Over time allows you to track trends in emissions
- Record of success and impact of initiatives introduced to reduce emissions, and to report on ROI of initiatives to stakeholders
- Data and in-depth analysis can inform future decisions and CAPEX expenditure on infrastructure changes to reduce emissions
- Gives you the vision to set a roadmap to net-zero
- Highly configurable to match requirements and style of any company, client or project



FAQ

1. **Who collects the initial emissions' data and where does the excel document at the back of the Power BI portal sit?**

   The port / terminal / harbour is responsible for collating the data and inputting it into the excel document. The excel is cloud-based and would sit on the client's OneDrive cloud or whatever other cloud system they use. However, ABL will work closely with the client's in-house IT team to find the correct solution that best suits the needs of each port. If necessary, ABL can assist in the data collection process.

2. **Do you envisage automation in the data collection process?**

   We believe that automation wherever possible will encourage the use of the portal in order to get maximum benefits with minimal effort. There are some key areas which we have already identified to be automated in the future, including recording vessel movements in the port boundaries from AIS data.

3. **To what extent is this portal configurable and flexible to support ports of different sizes and purposes?**

   emiTr has been designed to be entirely configurable to suit any company, client or project. Though designed with ports in mind, the portal can be configured by the ABL team to track and calculate emissions of companies across different marine industries, such as oil & gas, offshore wind operations and other shoreside infrastructure.

4. **Where does the IP sit for emiTr and the data it processes, once a client contracts with ABL to use the product?**

   emiTr will remain as the intellectual property of ABL and our clients' data shall stay confidential and the property of the client, with an NDA in place.

5. **Does emiTr come with an account management programme and technical support in the event of maintenance and unexpected technical issues?**

   ABL will be able to provide access to users with Microsoft accounts and shall give technical support wherever needed in order to ensure the portal runs smoothly for all clients.

6. **What is the cost of the portal and what is the timeframe for the configuration and set-up of the product to meet the needs of a new port?**

   The amount of time and cost is directly proportional to the size of the port and amount of items to be tracked. A lump sum fee can be provided after review with the port.

7. **How often should the data be collected and what is the timeframe on the data?**

   Data can be collected and input into the portal as regularly as you like. This gives clients the flexibility to fit this task into their usual operations where they can. Data can be stored for as many years as required.

8. **What actions can be derived from emiTr's data?**

   Data and analysis from emiTr can inform decisions regarding CAPEX expenditure and future emissions' reduction initiatives. Overall, understanding your emissions and identifying highest-risk emitters is the 1st step to identifying a roadmap for action, and key to measuring ROI of new carbon-reduction initiatives.

   Documenting your emission reduction activities can support your ESG credentials.

9. **What are the next stages of emiTr's development?**

   We are further developing **emiTr** in two areas:

   (1) As mentioned before, to automate the data collection and input via AIS integration

   (2) To add a modelling tool to **emiTr** to anticipate impact of carbon-reduction initiatives at the port on emissions, to help further inform decisions on CAPEX expenditure