



Calculation and results of **greenhouse gas emissions** of Port of Tallinn

updated 24.01.2025

**TAL
TECH**

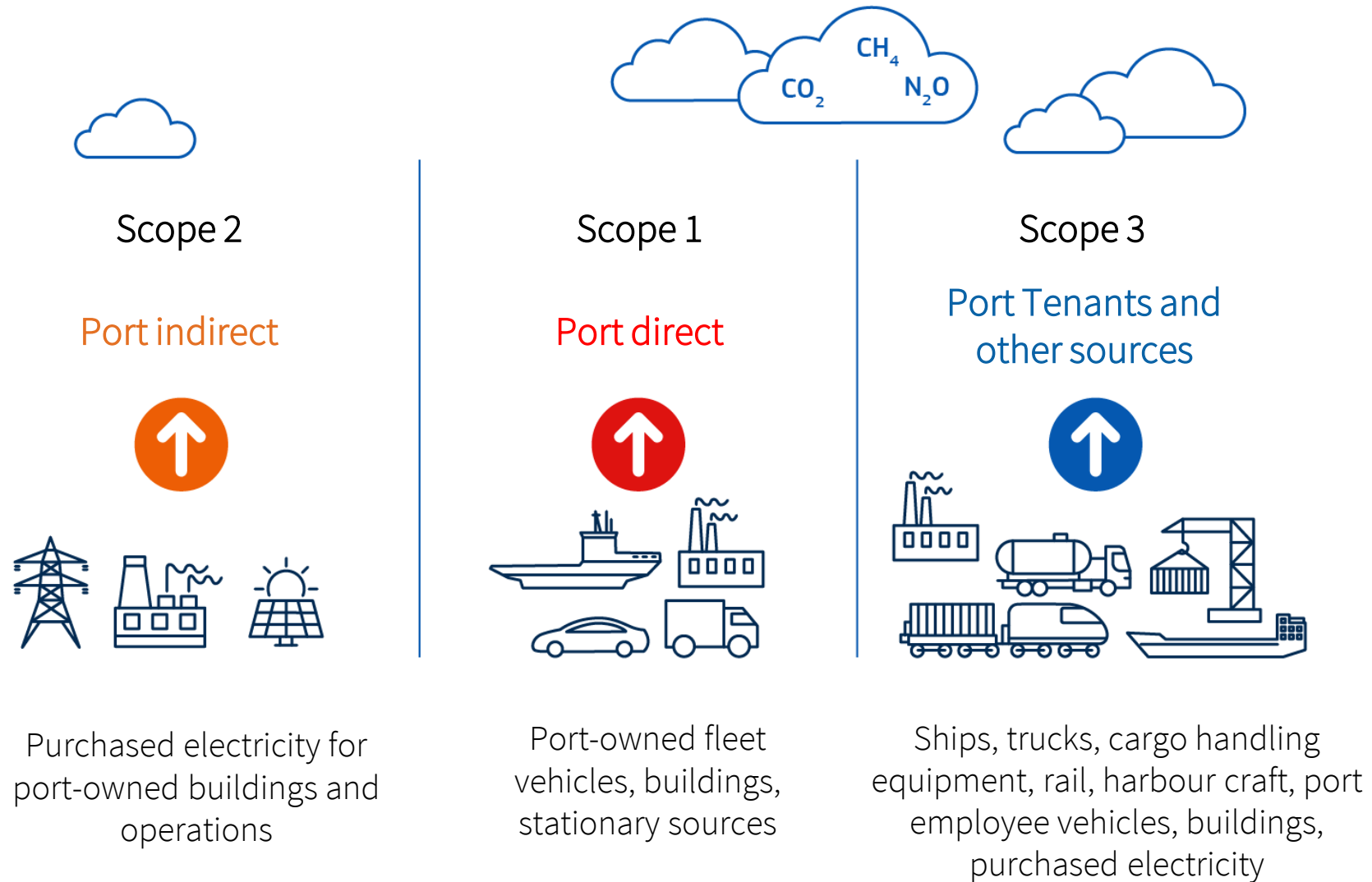
PORT OF  TALLINN
The Port of Good News

Methodology for calculating GHG and associated changes

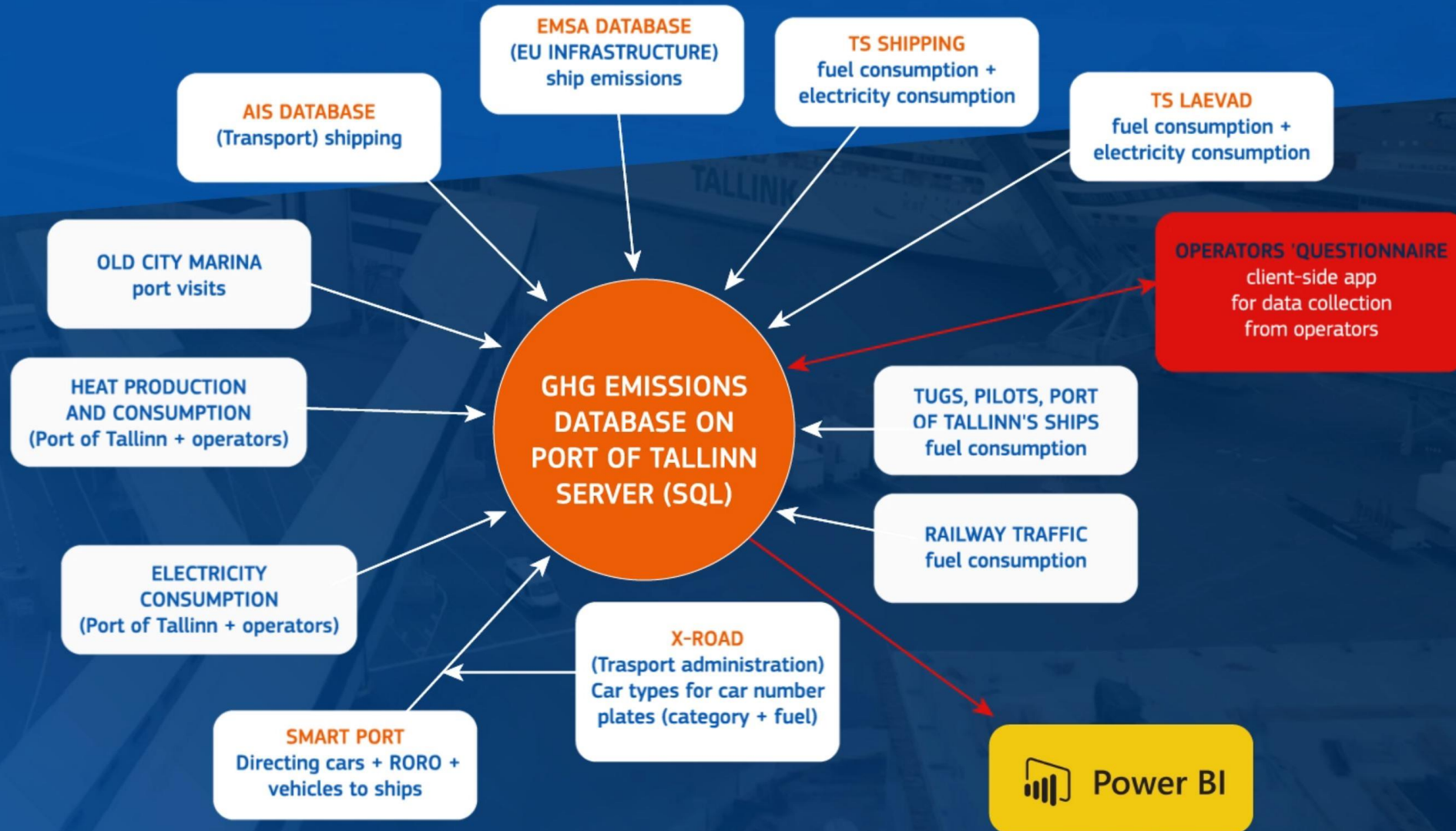
- Greenhouse Gases (GHG) - CO₂, N₂O, and CH₄ expressed as CO₂ equivalents.
- Since 2022, the calculation of GHG emissions has adopted guidelines developed by the Stockholm Environment Institute (SEI), which take into account Estonian-specific assumptions and conditions. Consequently, compared to previous years' reports on GHG emissions data, there have been retroactive clarifications and changes.
- The calculation model relies on internationally recognized methodologies and standards for GHG footprint calculations, particularly the Greenhouse Gas Protocol. However, the model also considers Estonian-specific assumptions and conditions, providing a standardized methodological basis and dataset for Estonian organizations to calculate their GHG footprint.
- Since 2022, a new residual electricity mix methodology has been introduced for calculating electricity emissions, resulting in increased electricity emissions from 2019 to 2021. Changes have also occurred due to adjustments to previous years' indicators and improvements in the quality of primary data.
- The SEI model is updated annually, leading to changes in emission factors, which consequently result in retrospective updates to CO₂ emissions.



CO₂ mapping

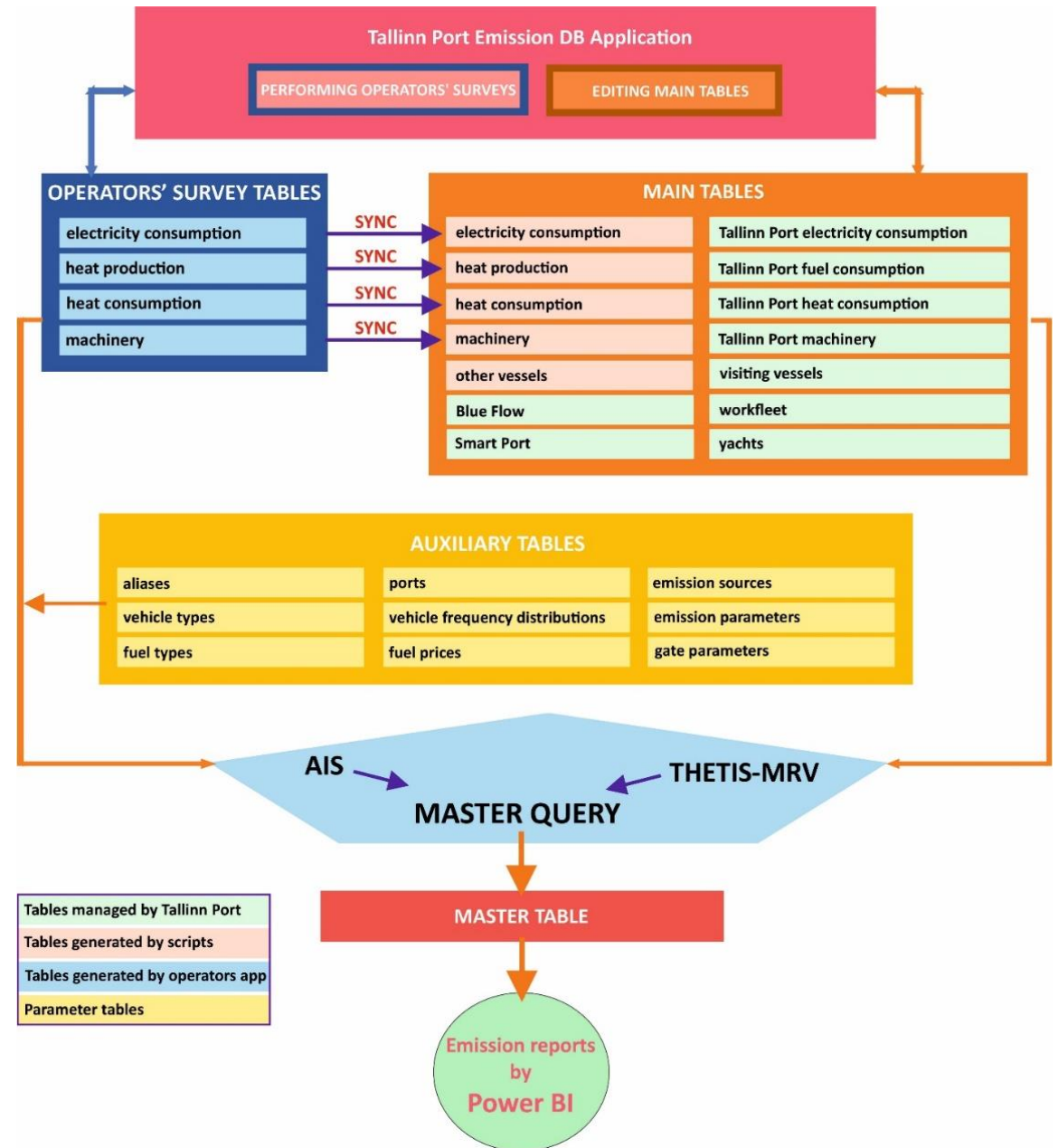


Linking different technologies / databases



Key building blocks:

1. Central database
2. Supporting databases
3. Calculation scripts
4. Visualization tools



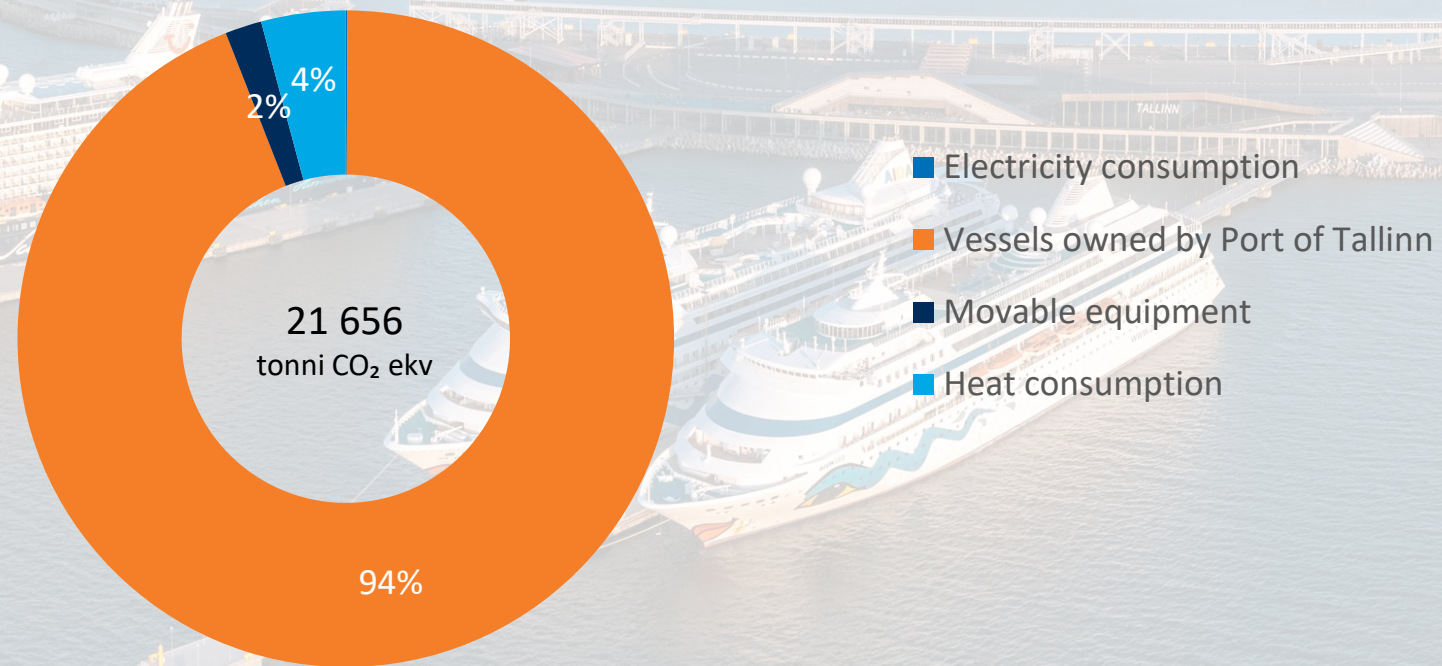
GHG emissions



**Port of Tallinn Group
(incl. TSL, TSS, TS)**

The Port of Tallinn Group GHG emission 2024

Scope 1-2



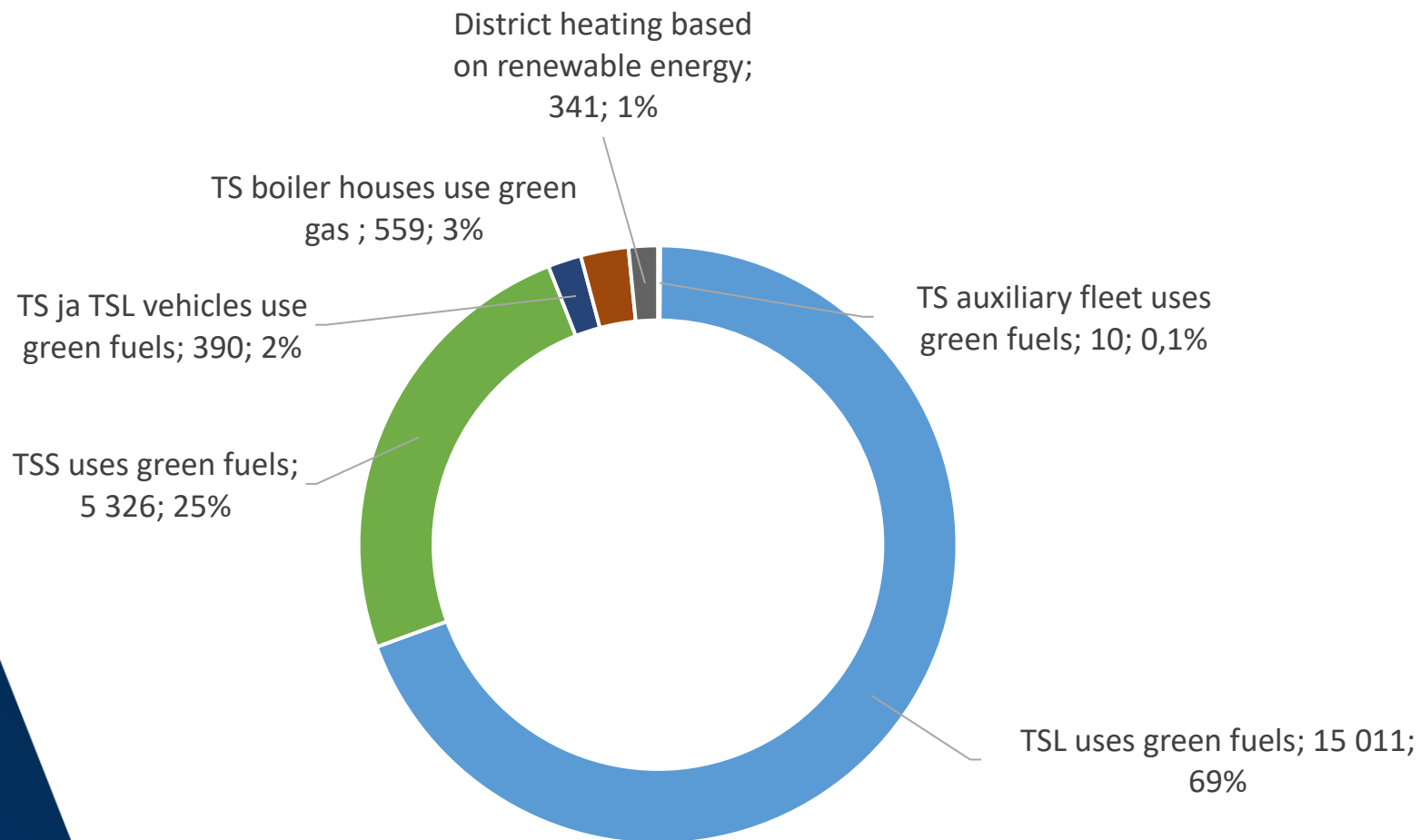
The Port of Tallinn Group GHG emission 2019-2024

Scope 1-2



*The values for 2019 and 2020 have been updated using the emission factor for the respective years and by adopting the methodology for calculating residual electricity mix, and therefore do not match the values reported in the 2020 report. The greenhouse gas (GHG) emission figures published in previous annual reports have changed due to changes in emission factors and significant improvements in emission data accuracy

Port of Tallinn Group GHG reduction measures
(scope 1-2, 2024= 21 656 t CO_{2ekv})



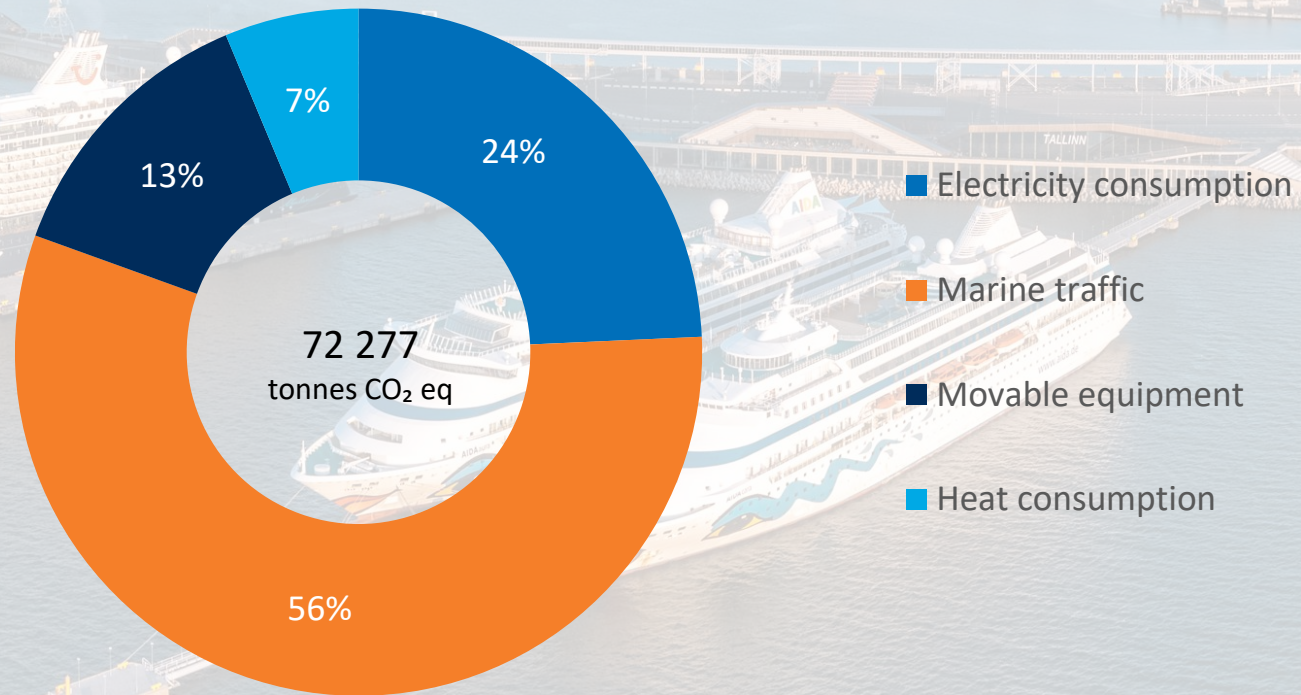
GHG emissions



PORT OF TALLINN
incl. operators, tenants,
marine traffic

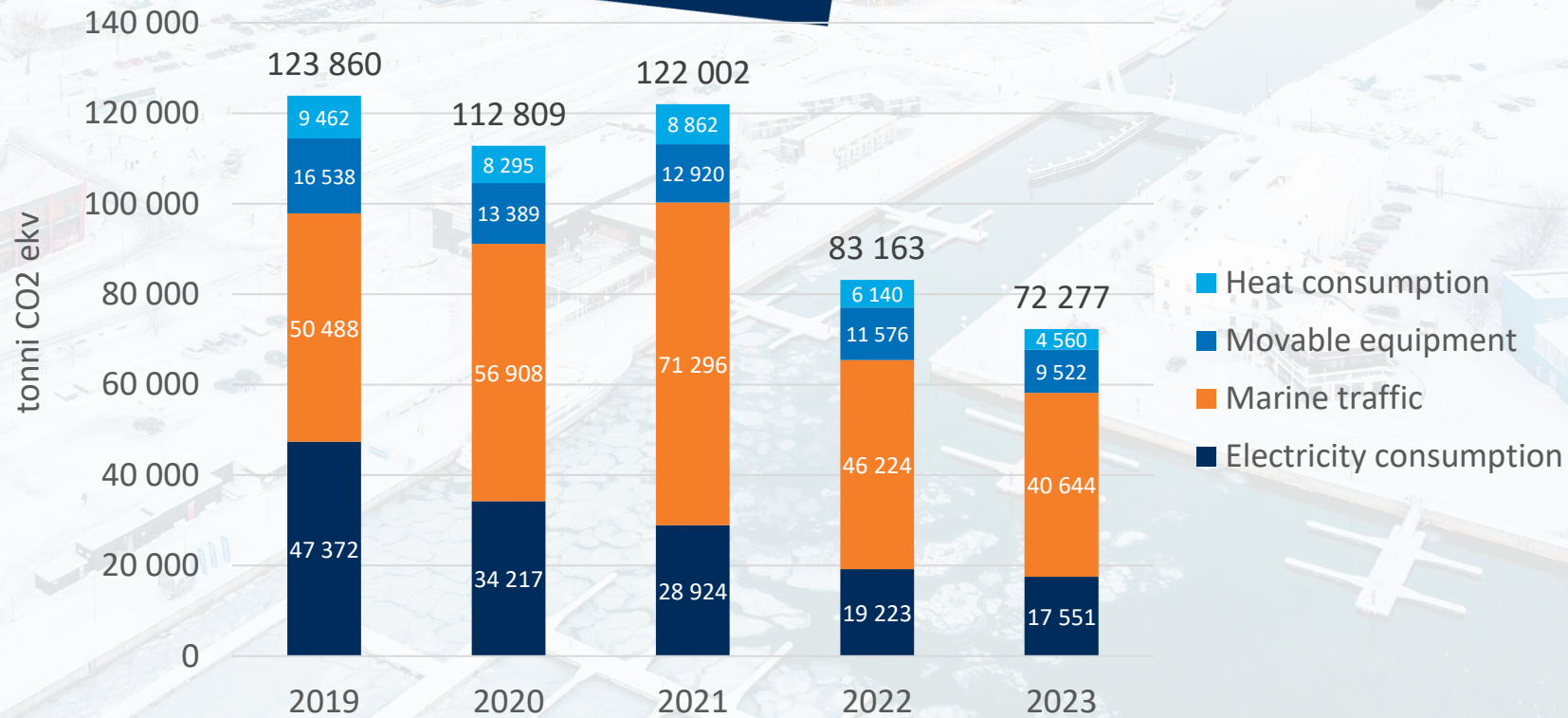
Port of Tallinn GHG emission (incl. operators, tenants, marine traffic) in 2023

Scope 1-3

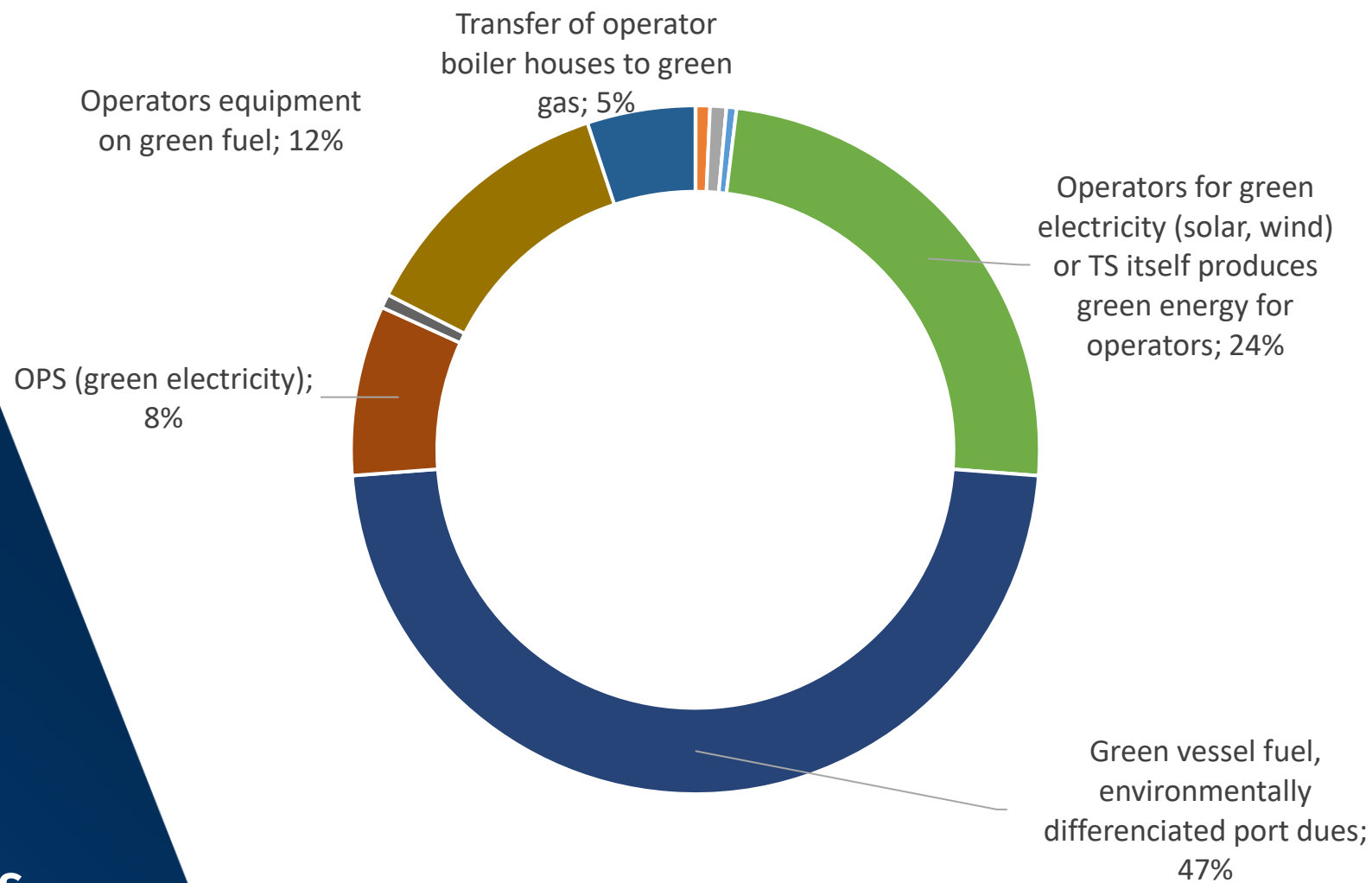


Port of Tallinn GHG emission (incl. operators, tenants, marine traffic) in 2019-2023

Scope 1-3



*The values for 2019 and 2020 have been updated using the emission factor for the respective years and by adopting the methodology for calculating residual electricity mix, and therefore do not match the values reported in the 2020 report. The greenhouse gas (GHG) emission figures published in previous annual reports have changed due to changes in emission factors and significant improvements in emission data accuracy



Port of Tallinn GHG reduction measures

scope 1-3, 2023 = 72 277 t CO_{2ekv}