Maritime Emissions Portal
Collaboration between RightShip, AUSMEPA and PortVision.

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Agenda

About RightShip

The air quality challenge

Maritime Emissions Portal – A solution
  • How it started
  • How it works
  • Emission calculations

Maritime Emissions Portal – Live demonstration

Maritime Emissions Portal – Applications
About RightShip

RightShip is the world’s leading maritime risk management and environmental assessment organisation.

RightShip helps customers manage maritime risk through big data and predictive analytics across safety and environment performance.

Independent company formed in 2001
- Houston, Melbourne & London
- 300+ customers globally

Greenhouse Gas Emissions Rating
- 76000+ ships
- Used by financers, charterers, ports & others.

Industry collaboration
- Environmental organisations (e.g. Green Marine, ESI, AUSMEPA, NAMEPA).
- Maritime Emissions Portal an example of this
Air quality – the challenge
Air quality – Everyone's problem

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Air quality – The Data

- Lack of good data
- Laborious
- Expensive?
- Retrospective
- Complex
Maritime Emissions Portal (‘MEP’) – A Solution
An online portal that helps reduce the impact of ship emissions on the health of port communities and the environment.

It provides users with the ability to observe changing air patterns throughout a port and city over the course of a day, week, month or a year.
MEP – How it started

“Using technology to tackle a global issue that makes a better world, faster”
MEP – How it works
 MEP – Emissions calculation

\[ E = P \times LF \times A \times EF \times LLAF \]

- **E**: Emissions
- **P**: Engine power
- **LF**: Load factor
- **A**: Activity
- **EF**: Emissions factor
- **LLAF**: Load adjustment factor

MEP – Verification

3 independent experts:

- Dr. James Corbett - University of Delaware
- Russell Furey - California Air Resources Board
- Tim Scarbrough - Ricardo Energy & Environment

“We think it’s a great product that has been well QA’d and will be useful for many ports. We did our review and we stand behind our work”.

Seth Hartley, Technical Specialist at ICF International.
Maritime Emissions Portal – Demonstration
Maritime Emissions Portal – The Opportunities
MEP – Applications & Opportunities

- Port wide inventory (on-demand)
- Alignment with strategic objectives
- Reporting function
- Scenario planning tool
- Future state assessment
- Stakeholder engagement

Integrate/inform/measure port incentive programs
Where to next?

1. Collaborate with more ports
2. Develop tailored reporting outputs
3. Develop improved functionality
4. Get it to market – accessible to all