

How can we calculate carbon emission footprint for the entire maritime supply chain?

impa|save|imef

People, Planet, Profit, Purpose

Presented by Mikael Karlsson

Visit: [impasave.org](https://impasave.org) | Email: [sustainability@impa.net](mailto:sustainability@impa.net)

# impasave

GETTING TO ZERO PLASTIC

Will you help us? PLEDGE TODAY!

[impasave.org](https://impasave.org)



# One Line Item → Predictable Financial Impact

- Eliminate single-use plastic bottles onboard
- Zero revenue risk
- No operational downside
- Scales linearly with fleet size
- Savings recur annually



# One Line Item, Repeated Thousands of Times

- Ships procure +20,000 different items in different packs and sizes
- Plastic water bottles are just one, but in many different sizes.
- Falls under Scope 3
- No shared standard = poor visibility



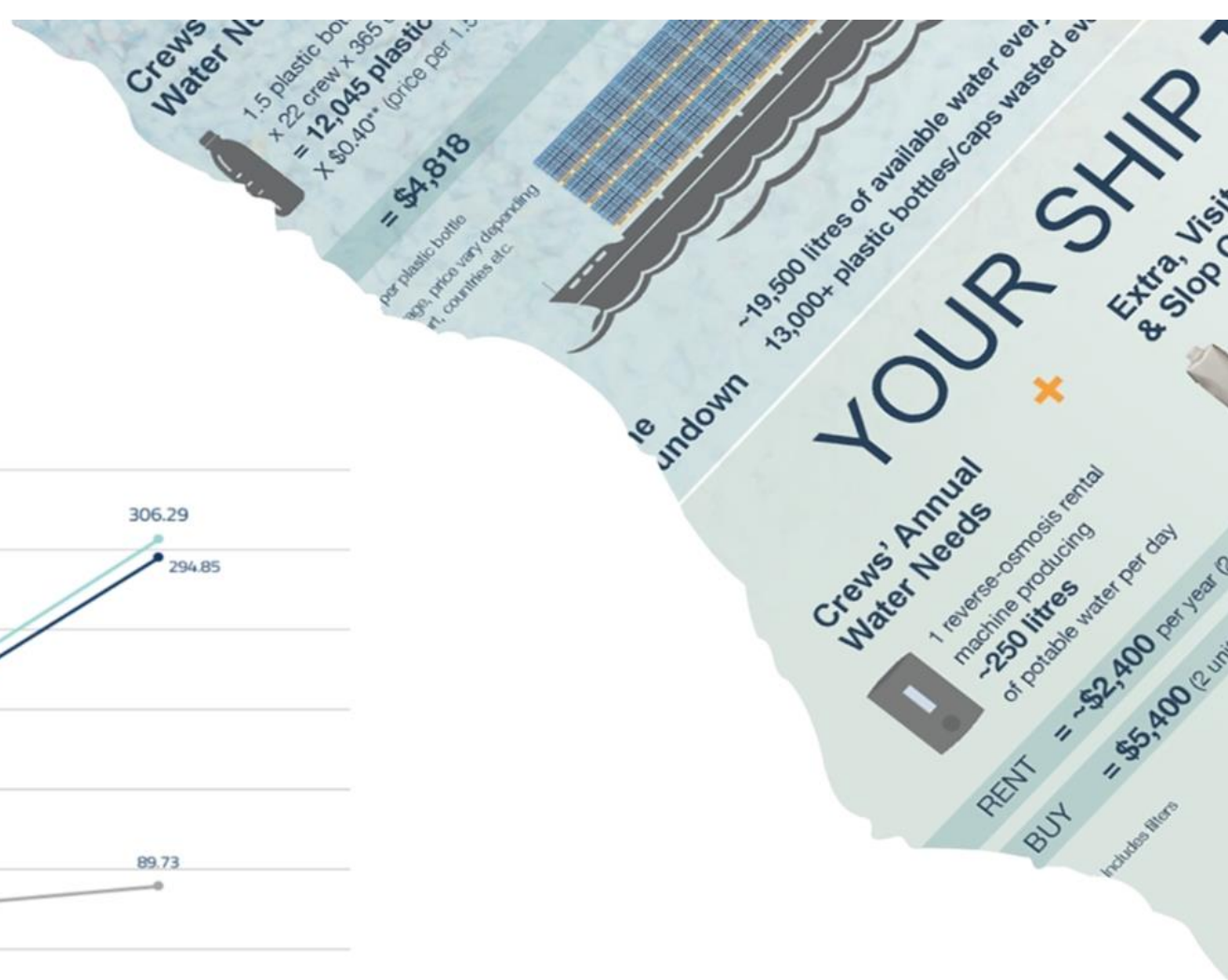
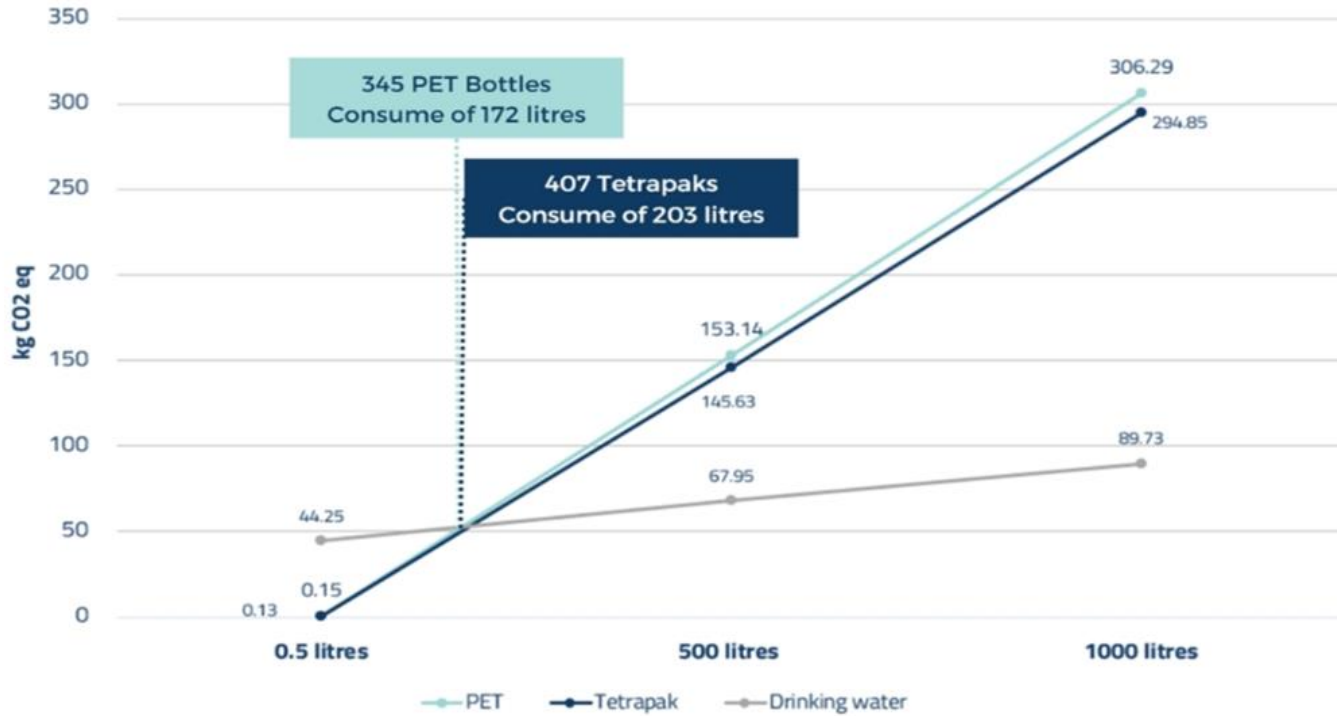
# Replace Procurement with Infrastructure

- Install filtration systems
- Produce drinking water onboard
- Issue reusable flasks



# The Data

## Installation of Drinking water produced onboard



**Crews' Water Needs**  
1.5 plastic bottles x 22 crew x 365 days = **12,045 plastic bottles**  
x \$0.40\*\* (price per 1.5 litre plastic bottle)  
= **\$4,818**  
\*\*price vary depending on countries etc.

**YOUR SHIP**  
+  
**Crews' Annual Water Needs**  
1 reverse-osmosis rental machine producing ~250 litres of potable water per day  
**RENT = ~\$2,400 per year**  
**BUY = \$5,400** (2 units)  
Includes filters

**leakage**  
~19,500 litres of available water every day  
13,000+ plastic bottles/caps wasted every day

**Extra, Visit & Slop**

# One Ship, One Year

- 29,200 bottles per ship / year
- 4.4 tonnes CO<sub>2</sub> per ship / year
- 580 kg plastic waste per ship / year
- \$5,000 saved per ship / year



# What Happens at the IMPAsave Fleet Scale

- 9,000 ships pledged
- 262M bottles cut.
- 39600 tons CO<sub>2</sub> removed annually
- 5200 tons plastic saved annually
- \$45M saved per year



# The Role of IMPAsave and IMEF.

## Enabling Structured, Shared Supply-Chain Data

- Common digital foundation for maritime procurement
- Standardised buyer–supplier data exchange
- Improved data quality and transparency
- Foundation for scope 3 visibility

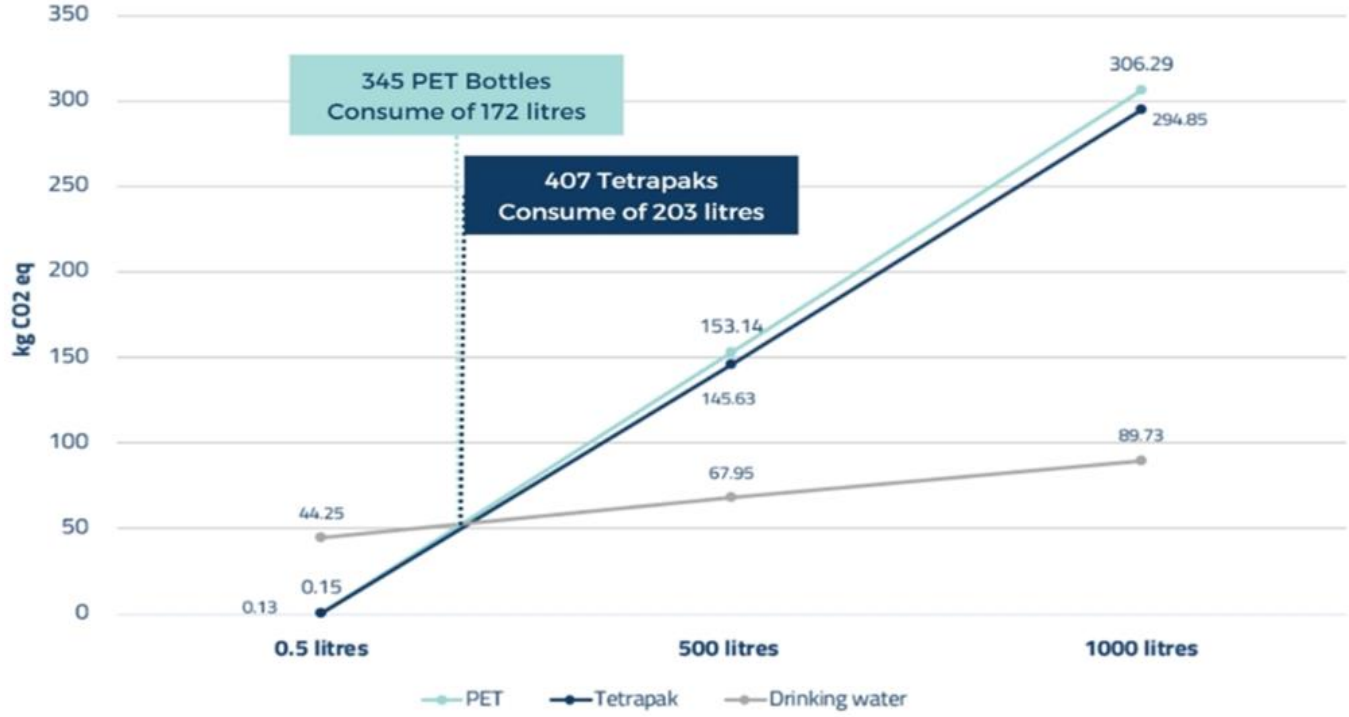
## Getting Ahead of the Curve Collaborating



**IMPAsave is not a sustainability tool —it is an enabler of sustainability**

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Extra, Visit & Stop