

SHIBATAFENDERTEAM

▶ on the safe side

**HARBOURING SUSTAINABILITY:
ASSESSING MARITIME FENDER
SYSTEMS' CARBON FOOTPRINT
FOR SUSTAINABLE PORTS**

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PIANC APAC 2024 – August 28th



UN SUSTAINABLE DEVELOPMENT GOALS.

- ▶ Goal 12
- ▶ Ensuring sustainable consumption and production patterns
- ▶ Key to sustain the livelihoods of current and future generations.

Our planet is running out of resources, but populations are continuing to grow.



THE MARITIME INDUSTRY.

*“Faced with an increase in resource consumption, talk to SFT, a **leader** in authentic and transparent sustainability, offering detailed emissions data”*



TABLE OF CONTENTS.

- ▶ SFT SUSTAINABLE APPROACH
- ▶ CARBON REDUCTION INITIATIVES
- ▶ CARBON FOOTPRINT ASSESSMENT

A SUSTAINABLE APPROACH.

- ▶ ISO 9001/14001 certificates
- ▶ Three strategic priorities
 - ▶ People
 - ▶ Corporate Industry
 - ▶ Carbon Reduction Initiatives
- ▶ **First** in the industry to provide product specific figures on CO2 emissions

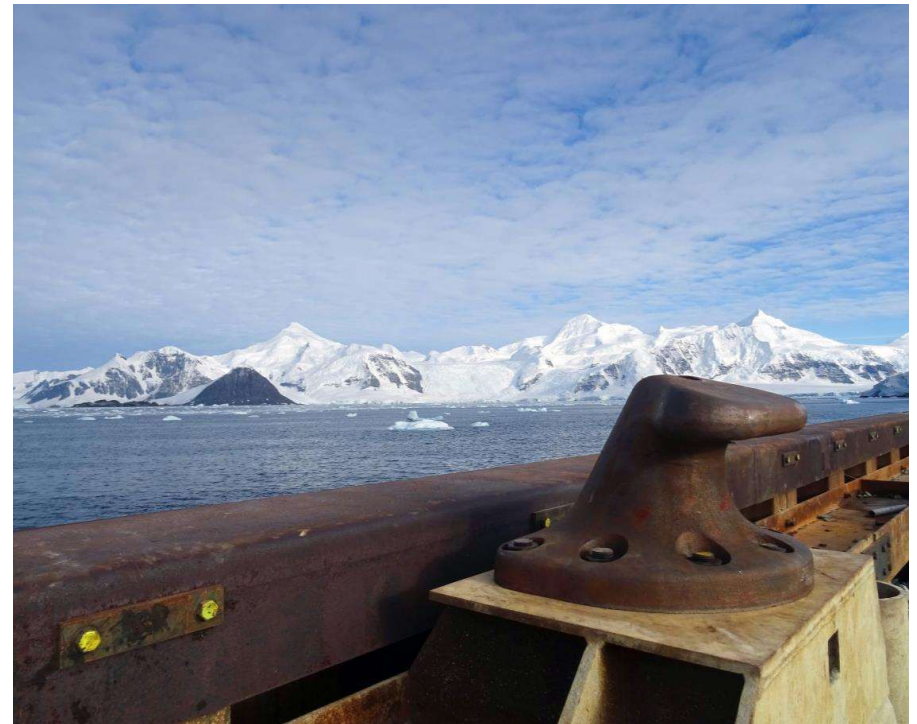


CARBON REDUCTION INITIATIVES.

DESIGN.

- ▶ Holistic Approach to fender system design
- ▶ **Extend** the life of fender systems
- ▶ **Eliminate** the need for early repairs
- ▶ **Reduce** wasting of natural resources

#greendesign by SFT



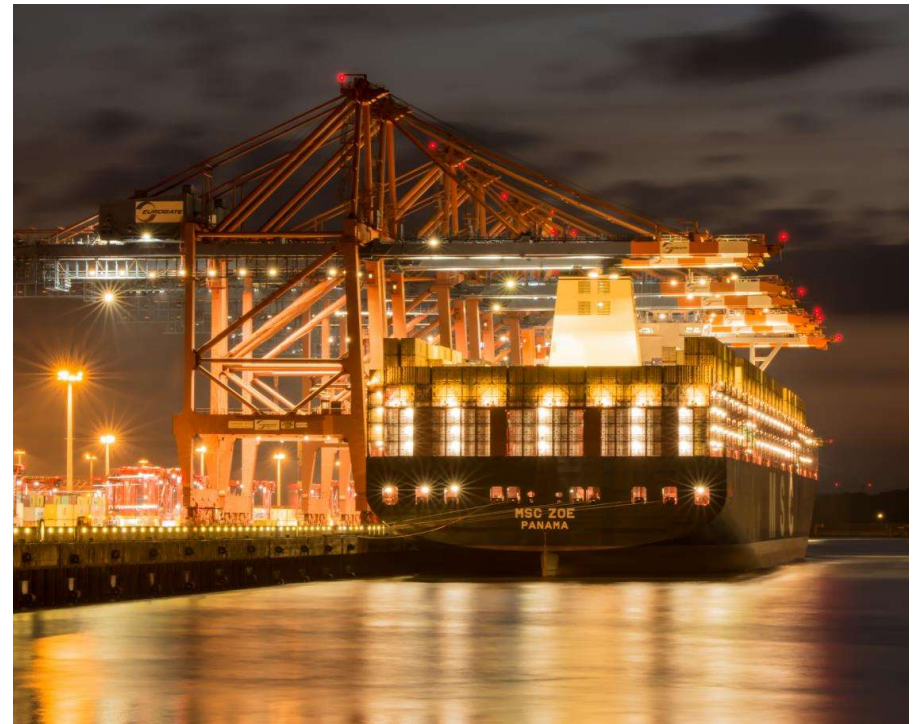
COMPONENTS.

- ▶ In-House
- ▶ Responsible manufacturing
- ▶ Sustainable alternatives
- ▶ High-quality



DISTRIBUTION.

- ▶ Favoring **zero-carbon** goal companies
- ▶ Maersk ECO Delivery
- ▶ LNG or eco-power
- ▶ Other initiatives





MAINTENANCE.

- ▶ Increase operational lifetime
- ▶ Avoid wasting resources
- ▶ Planned inspections and maintenance program
- ▶ Service life increase by 10 years and more

10 years > 20 years

MAINTENANCE CHECKLIST

It is advisable to prepare a checklist for routine preventative maintenance. The table below is a suggested template for collecting this information. In the event that fender damage is identified during a maintenance inspection, please contact ShibataFenderTeam for advice.

Port:	Berth Name:
Date:	Time:
Name:	Signature:

General	
Fender location:	Last inspection date:

Rubber			Fender Panel		
Ozone cracks	yes/no	(photos, size)	Paint condition, damage	yes/no	(photos)
Fixings tight, secure	yes/no	(photos)	Dents, bends	yes/no	(photos)
Cuts or abrasions	yes/no	(photos, size)	Brackets		
Spillages (paint, oil)	none/minor/major		Corrosion, scratches	yes/no	(photos)
Marine growth	yes/no	(vents blocked?)	Welds, cracks	yes/no	(photos)
Tidal operations	yes/no	(hydraulic locking?)	Accident damage	yes/no	(photos)

REFURBISHMENT.

RESKINNING

- ▶ Apply a new skin
- ▶ Extend its lifetime even further
- ▶ Service provided in Rechlin
- ▶ Sustainable alternative to minimize environmental impact



CARBON FOOTPRINT ASSESSMENT.

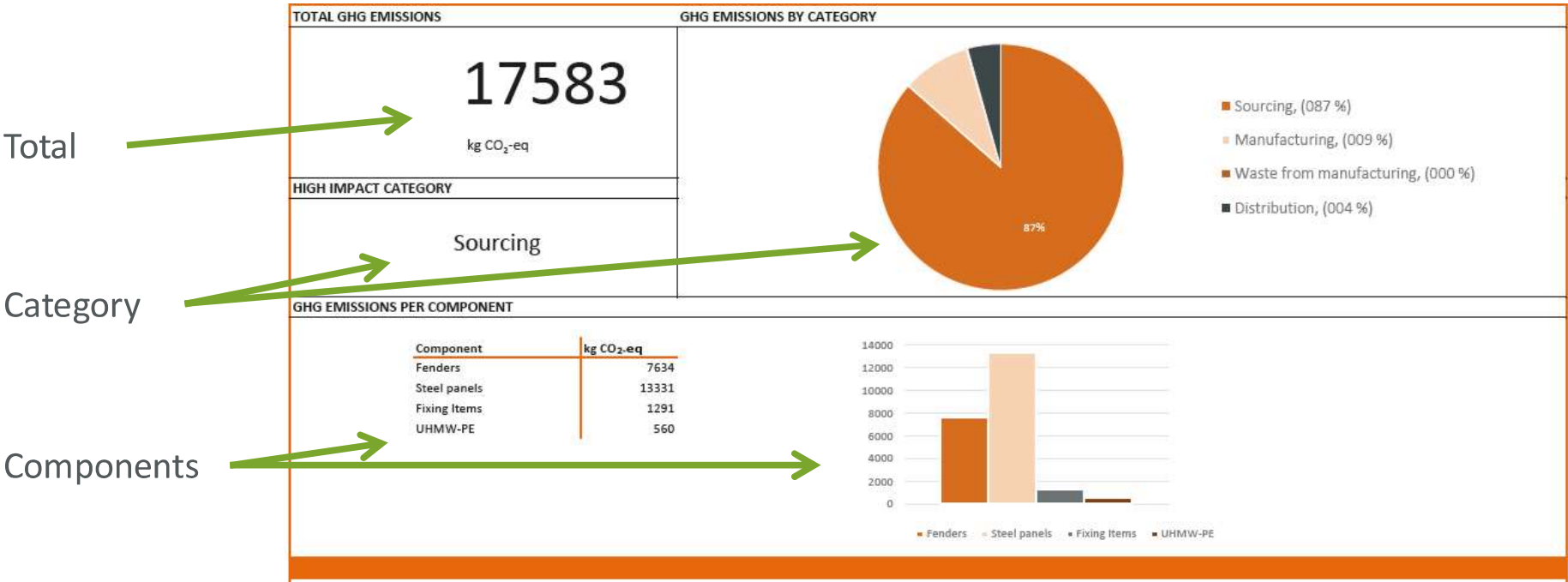
FIRST IN THE INDUSTRY.

- ▶ Fully owned compound and mixing process and facility
- ▶ Independent consultancy
- ▶ Specific figures on CO₂ emissions per individual order
- ▶ ISO 14067:2018

- ▶ Every ingredient of rubber fender compound
- ▶ Mixing process
- ▶ Other components: steel, UHMW-PE, etc.



CO2 EMISSIONS PER INDIVIDUAL ORDER.



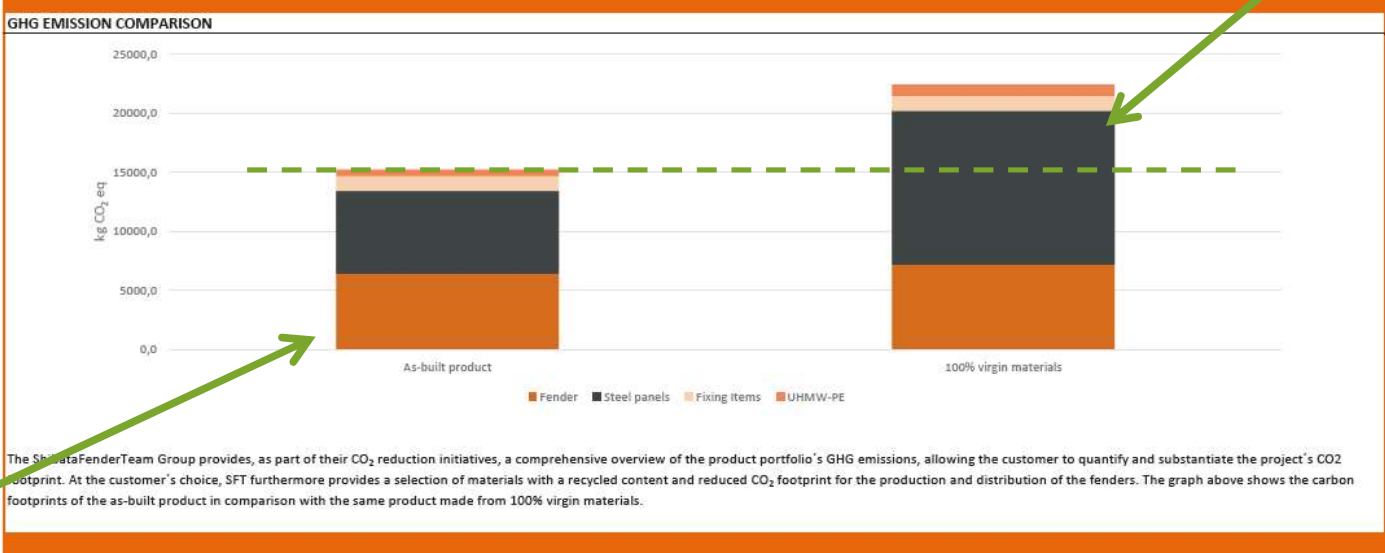
Total

Category

Components

EMISSIONS COMPARISON.

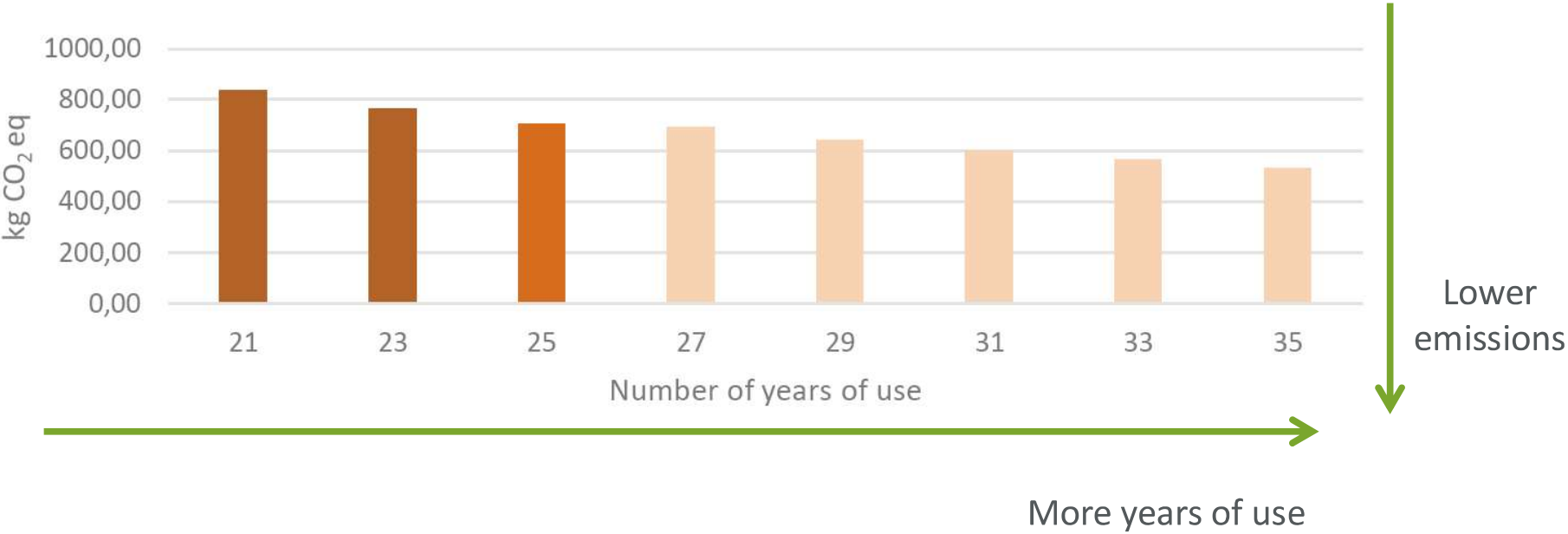
100% virgin materials



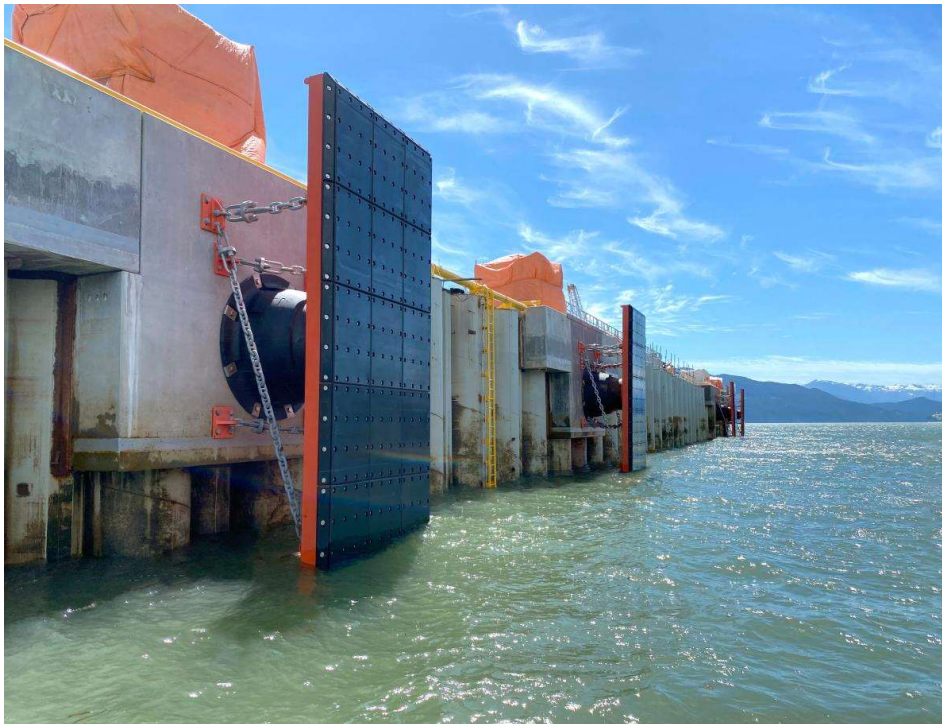
As-built product

LIFETIME ANALYSIS AND MAINTENANCE.

GHG emissions allocated to the fender system per year of lifetime



TRANSPARENCY IS VITAL.



“When a customer places an order with us, they have the right to know the environmental cost associated and how they might reduce it.”

Jan-Christoph Schoeler
Board Member at SFT

THANK YOU FOR YOUR ATTENTION!

For more information visit us at

www.sft.group

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