

SCIENCE BASED TARGET-SETTING IN THE MARITIME TRANSPORT SECTOR

GUIDANCE LAUNCH WEBINAR

6 December 2022

PARTNER ORGANIZATIONS









IN COLLABORATION WITH



VIDEO-CONFERENCE GUIDELINES



DRIVING AMBITIOUS CORPORATE CLIMATE ACTION

- This is a **zoom webinar**. Your camera and microphone are automatically muted.
- Participants can send questions via the Q&A button.
- Slides from this webinar will be shared after this meeting.
- Please note that this webinar will be recorded for the benefit of those who cannot attend.





AGENDA

- 1. Housekeeping and agenda
- 2. Introduction to the SBTi
- 3. The SBTi Maritime Guidance
 - \circ Context
 - Development process, applicability and scenarios
 - Sector criteria and target boundaries
 - Examples
- 4. Q&A
- 5. Closing

TODAY'S WEBINAR TEAM



EMCEE



ZNIKO NHLAPHO Engagement Manager SBTi

PANELISTS



FERNANDO RANGEL VILLASANA Head of Sector Development SBTi



JEAN-MARC BONELLO Principal Consultant UMAS



ALAN LEWIS Technical Director SFC

INTRODUCTION TO THE SBTi

What is the Science Based Targets initiative?



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The Science Based Targets initiative (SBTi) is a **global body** enabling businesses and financial institutions to set **ambitious emissions reductions** targets in line with **climate science**.



To learn more about the progress of the initiative, consult the SBTi Progress Report 2021



INTRODUCTION TO THE SBTi

Action Worldwide

PUBLISHED MAY 2022

Progress to date





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INTRODUCTION TO THE SBTi

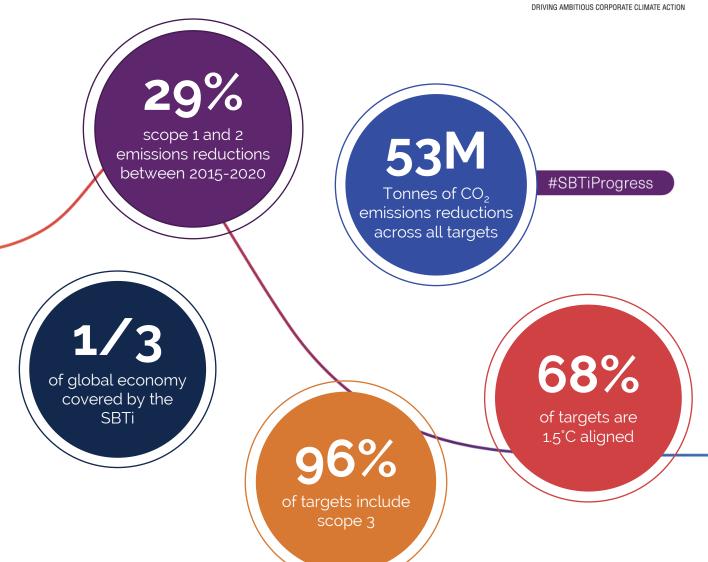
Progress to date



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Companies with science-based targets are delivering emissions reductions at scale

- Reduced emissions by 29% between 2015-2020.
- **1.5B tonnes of annual CO₂e** emissions covered by the SBTi.
- **\$38trn** of global market capitalization.
- 70 countries and 15 industries.



SBTi UPCOMING WORK



Phase 1 completed (WB2C) aligned. Planned update to align to 1.5°C 'Asset class alignment guidance / method



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THE SBTI MARITIME GUIDANCE

THE CHALLENGE

Decarbonizing a critical link of global trade

- 80% of global trade by volume is carried by sea.
- 3% of global GHG emissions (~1GT of CO₂e).
- Completely reliant on fossil fuels.
- Highly heterogeneous (cargo categories, vessel types, vessel sizes, routes).
- Long asset replacement cycles.



INDUSTRY DEVELOPMENTS





WHAT DOES MARITIME TRANSPORT GUIDANCE COVER?

All movement of goods and people on shipping vessels

A toolkit to **measure** carbon intensity of activity to **inform** decision-making around short-term **actions** towards a **long-term goal**





SBTI MARITIME GUIDANCE DEVELOPMENT PROCESS



Setting up of Technical Working Subsequent focus groups Group including industry & non to field feedback and industry stakeholders continuous engagement 2020 2021 2022 Development started with First draft launch and SBTi approval and WWF. UMAS and Smart publication in November public consultation in March 2021 Freight Centre in June 2020 2022



TECHNICAL GUIDANCE AND TOOL

SCIENCE BASED TARGETS

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SCIENCE BASED TARGETS BUILD AMERICAS COMPARE CAMERACIONS

SCIENCE BASED TARGET SETTING FOR THE MARITIME TRANSPORT SECTOR

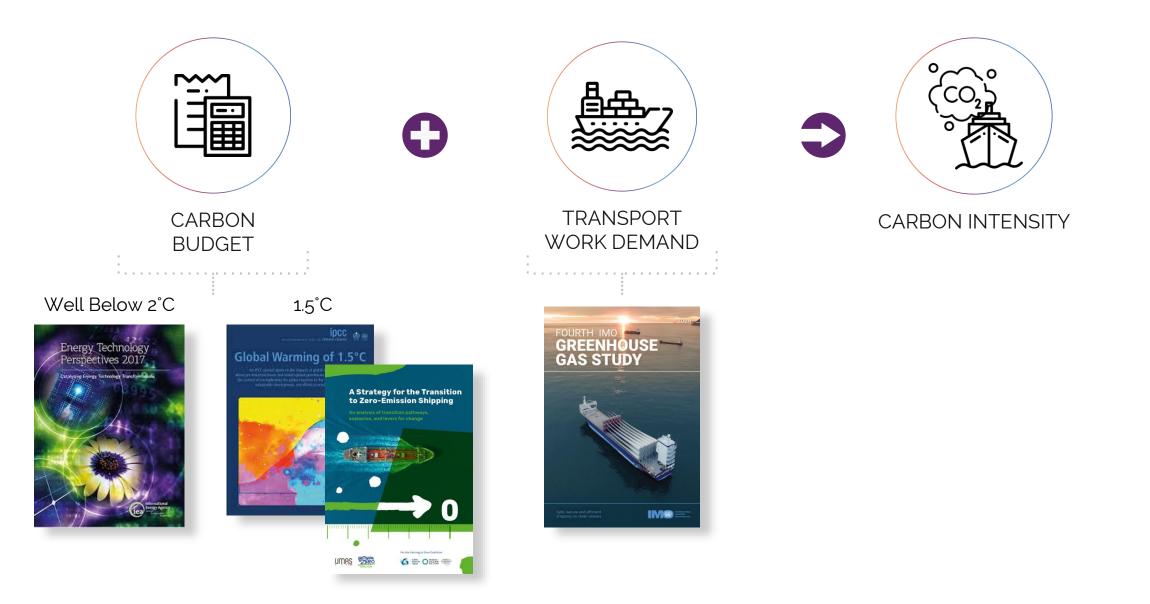
Version 1.0 November 2022

| SCIENCE BASED TARGETS | Version: Version 1.0 Please refer to: Terms of use Contact: info@.sciencebasedtargets.org | | | | | |
|--------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|
| Section 1. Select type of vessel used for transport activity | | | | | | |
| Ferry Passenger Only | Flease select vessel type for transport activity Reguired Input Results | | | | | |
| ection 2. Select vessel size category | rwaruna | | | | | |
| (GT) 1,000 - 1,999 | Please refer to guidance document for details | | | | | |
| ection 3. Enter emissions and activity | ata | | | | | |
| Select a base year | 2018 Any base year between 2018 and the current year is eligible | | | | | |
| Select a target year | 2037 Near-term targets must cover a maximum of 10 years from the date the target is submitted to the SBT/for validation | | | | | |
| Well-to-Wake (WTW) emissions in base year | 900,000 metric connes of CD2 equivalent (iCD2e) | | | | | |
| Activity in base year | 8,000,000 gross tonne nautical miles (GT.nm) | | | | | |
| Expected activity in target year | 9,600,000,000 gross tonne nautical miles (GT.nm) | | | | | |
| Section 4. Review target modelling results | | | | | | |
| arget modelling results - 1.5C | | | | | | |

PATHWAY DESIGN



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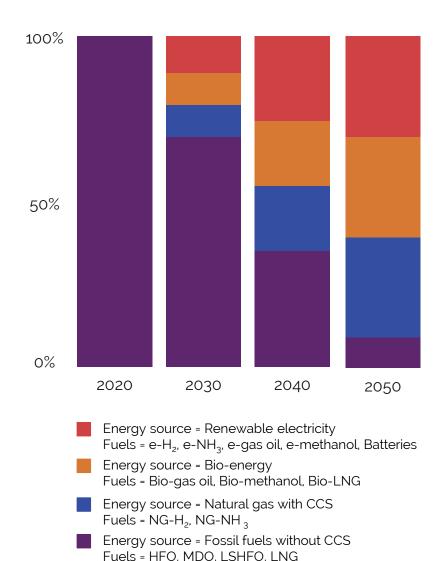


CARBON BUDGET ALLOCATION - 1.5°C SCENARIO



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- From IPCC: "In model pathways with no or limited overshoot of 1.5°C, global net anthropogenic CO₂ emissions decline by about 45% from 2010 levels by 2030..., reaching netzero around 2050...".
- 2010 TtW levels from Third IMO GHG Study.
- Assumed equal fuel mix scenario from Lloyd's Register and UMAS (2019) to get WtW emissions based on decarbonization in 2050.



CARBON BUDGET

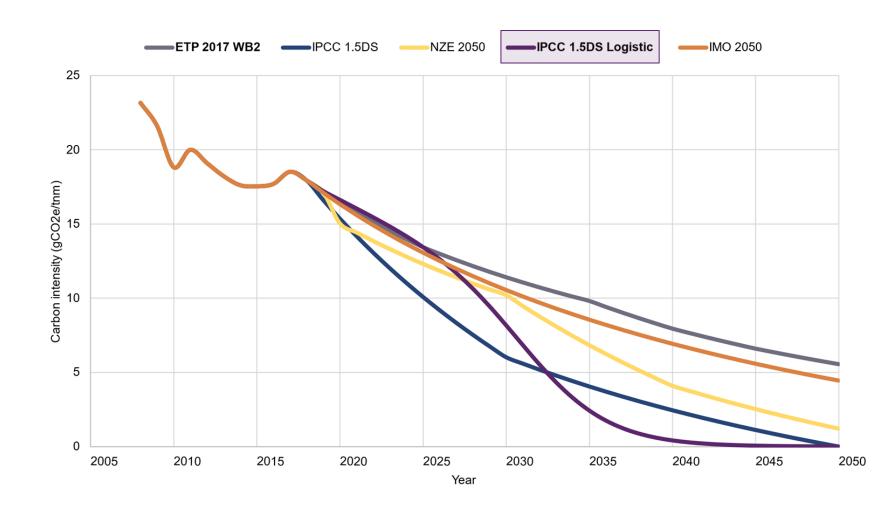
IPCC 1.5DS Logistic ETP 2017 WB2 IPCC 1.5DS NZE 2050 -IMO 2050 1,200 1,000 Carbon budget (MT CO2e WTW) 800 600 400 200 2005 2025 2040 2045 2010 2015 2020 2030 2035 2050 Year



- Well-to-Wake Emissions (Upstream + Operational).
- CO₂, N₂O, CH₄ (methane).
- IMO curve adapted to include WTT phase.

CARBON INTENSITY

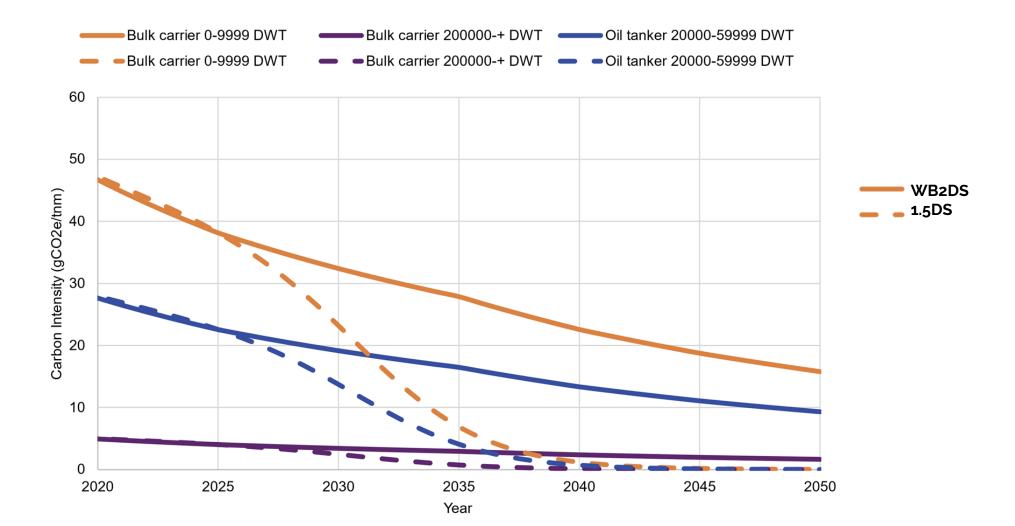




 Metric: gCO₂ / transport work.

CATEGORY SPECIFIC TARGET

Comparing apples with apples



SCIENCE BASED TARGETS DRIVING AMBITIOUS CORPORATE CLIMATE ACTION

EMISSIONS BOUNDARY

All targets must cover Well-to-Wake (WTW) emissions (in metric tonnes of CO, equivalent (CO,e)

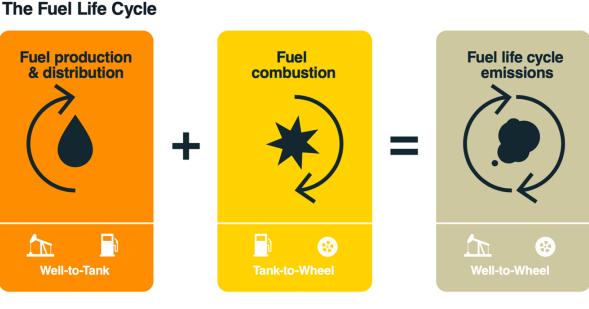
WTW emissions are emissions generated across the life cycle of a fuel.

They include both Well-to-Tank (WTT) emissions, generated in the fuel's production and distribution, and Tankto-Wake (TTW) emissions, generated in the combustion of the fuel.

Fuel production Fuel & distribution combustion ÷

© Smart Freight Centre 2019





TARGET COVERAGE



| Type of shipping re | elated emissions | WTW base year GHG emissions | Base year activity data* | |
|--------------------------------|------------------|--------------------------------|-----------------------------|--|
| Vessel owners / | Passenger | Scope 1 Scope 3 | tonne-nautical mile | |
| operators | Freight | Scope 1 Scope 3 | tonne-nautical mile | |
| Cargo shippers / | Passenger | Scope 3 category 5 or 6 | tonne-nautical mile | |
| Logistics Service Providers | Freight | Scope 3 category 4 or 9 | tonne-nautical mile | |

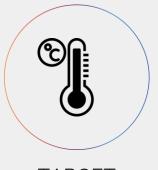
* Except cruises

SECTOR SPECIFIC REQUIREMENTS*





TARGET YEAR ELIGIBILITY For all companies, near-term target year must be no earlier than 2030.



TARGET AMBITION

- Vessel owners or operators must also submit **long-term sciencebased targets** (net-zero targets) along with their near-term target submission.
- For maritime transport emissions, a long-term science-based target means reducing emissions to a residual level **in line with 1.5°C** scenarios by no later than 2040.



LIMITATIONS ON FOSSIL FUEL ACTIVITIES

- The SBTi Fossil Fuel Policy affects the extent to which companies engaging in fossil fuel businesses can commit to climate aligned targets.
- Currently the SBTi is unable to accept commitments or validate targets from companies in the oil and gas or fossil fuels sectors.
- Users of the <u>SBTi Maritime Tool</u> with activities related to transportation or extraction of fossil fuel products are advised to **review the current status of this policy** as well as the latest version of the <u>SBTi Criteria</u>.



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WORKED EXAMPLES

EXCEL TOOL TO SUPPORT TARGET SETTING FOR THE MARITIME SECTOR

Calculates science-based targets for different vessel types and sizes following the SDA (convergence approach)

| SCIENCE BASED TARGETS | Sectoral Decarbonization Approach - Maritime Transport Tool DRAFT Version for Public Consultation Mar-2021 Proventie Interaction Contact: Infe@ediacolareateacterester | | | |
|-------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--|--|
| Section 1. Select type of vessel used to | for transport activity | | | |
| Belk Carrier | Please of the transport activity Required laput Results | | | |
| Section 2. Select vessel size category | | | | |
| (DVT) 100,000 - 155,555 | Plowerstern quidence kocument for detaile | | | |
| Section 3. Enter emissions and activit | v data | | | |
| Select a base year | 2018 Any have year between 2015 and the surrent year is aligible | | | |
| Select a target year | 2036 Torgets must caree ominimum al Sycore and omaximum al 15 years from the date the target is submitted to the SBT/for validation | | | |
| Vell-to-Vake (VTV) emissions in base year | 30.000 metric tenner of CO2 equivalent (CO2e) | | | |
| Activity in base year | 30,000 metric tenner of CO2 equivalant (FCO2) 3,000,000,000 tenner a vetical mile (f.nm) | | | |
| Expected activity is target year | 3,300,000,000 tanno-novticalmile (t.nm) | | | |
| Section 4. Review target modelling re- | sults | | | |
| Target modelling results - 1.5C | <u>Go to WB2C scenario results</u> Base year Target year 2 Reduction | | | |
| Intro Tool SBTag | gregator 1.5C WB2C (+) | : 4 | | |
| | | A Change | | |

One interface for calculating SBTs for all

maritime transport categories and one additional (non target setting) feature are included:



Vessel operators can model emission reduction targets for freight and passenger maritime transport activities. Shippers and Logistics Service Providers can also use this tool to model emission reduction targets for scope 3 category 4/9 emissions.

SBT aggregator

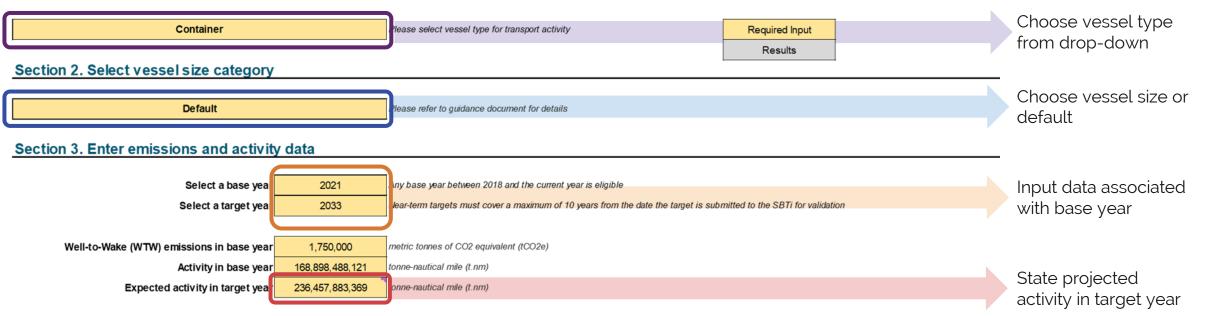
Additional feature to help companies combine targets across multiple maritime transport categories into a single metric.

CONTAINER SHIPPER, DEFAULT





Section 1. Select type of vessel used for transport activity

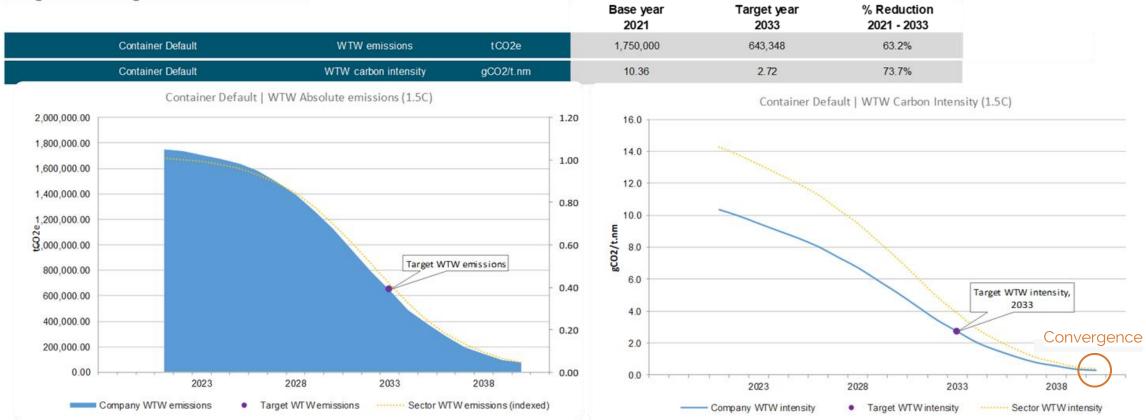


CONTAINER SHIPPER, DEFAULT



Section 4. Review target modelling results

Target modelling results - 1.5C



CONTAINER OPERATOR



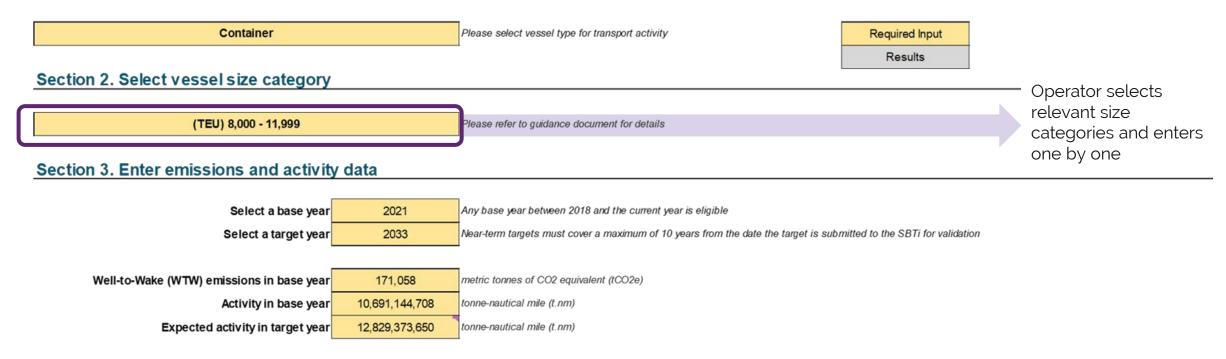


Sectoral Decarbonization Approach - Maritime Transport Tool

Version: Version 1.0

Please refer to: Terms of use Disclaimer Contact: info@sciencebasedtargets.org

Section 1. Select type of vessel used for transport activity

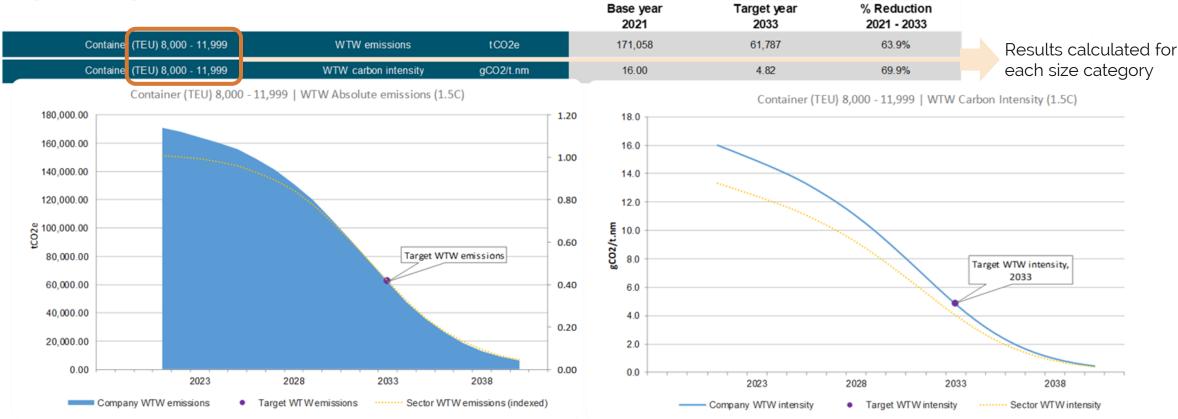


CONTAINER OPERATOR



Section 4. Review target modelling results

Target modelling results - 1.5C



CONTAINER OPERATOR





Sectoral Decarbonization Approach - Maritime Transport Tool

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OPTIONAL - Target aggregation sheet

Step 1: List the vessel type, size, base year emissions (WTW), activity, and target year activity in columns D, E,G, H and J for each different vessel type or size category for which targets are to be calculated.

Step 2: Calculate the targets for each different vessel type or size category using the "Tool" tab.

Step 3: hput the results calculated in step 2 into columns L through T of the SBTaggregator tab. The aggregated results and prorated reduction target are shown in at the bottom of row of this table. Please note that only intensity targets with the same activity denominatos (i.e., unit) can be aggregated.

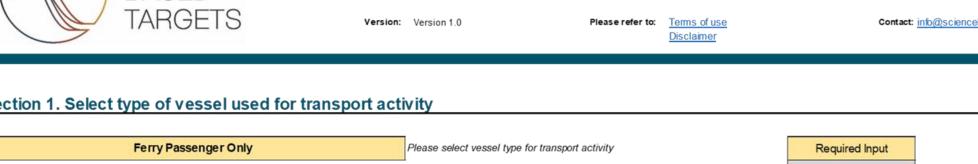
| | Emissions and activity data (as entered in tool interface) | | | | | Target modelling results - 1.5C | | | | |
|----|------------------------------------------------------------|-----------------------|--------------------------|-----------------------------|-----------------------------------------------------------|---------------------------------|--------------------------|----------------|-----------------------------------------------------------|----------------|
| | | | Base year | | Target year | ar Target year | | Target year | | |
| | Vessel type | Vessel size | WTW emissions (tCO2e) | Activity (t.nm or GT.nm) | WTW carbon intensity (gCO2e/t.nm or gCO2e/GT.nm) | Activity (t.nm or GT.nm) | WtW emissions (tCO2e) | % reduction | WTW carbon intensity (gCO2e/t.nm or gCO2e/GT.nm) | % reduction |
| | Container | (TEU) >20,000 | 760,259 | 86,393,088,553 | 8.80 | 120,950,323,974 | 308,470 | 59.4% | 2.55 | 71% |
| 2 | Container | (TEU) 14,500 - 19,999 | 449,028 | 45,356,371,490 | 9.90 | 58,963,282,937 | 175,707 | 60.9% | 2.98 | 70% |
| 3 | Container | (TEU) 12,000 - 14,499 | 369,654 | 26,457,883,369 | 13.97 | 37,041,036,717 | 144,647 | 60.9% | 4.21 | 70% |
| L. | Container | (TEU) 8,000 - 11,999 | 171,058 | 10,691,144,708 | 16.00 | 14,967,602,592 | 61,787 | 63.9% | 4.82 | 70% |
| 5 | | | | | | | | | | |
| 0 | | | | | | | | | | |
| | | | | | | | | | | |
| | | Combined results | 1,750,000 | 168,898,488,121 | 10.4 | 231,922,246,220 | 690,611 | 60.3% | 3.07 | 70.5% |

FERRY OPERATOR

Section 1. Select type of vessel used for transport activity Ferry Passenger Only Please select vessel type for transport activity **Required Input** Results Section 2. Select vessel size category Size categories (GT) 1,000 - 1,999 lease refer to guidance document for details expressed in GT Section 3. Enter emissions and activity data Select a base year 2022 Any base year between 2018 and the current year is eligible Select a target year 2033 Near-term targets must cover a maximum of 10 years from the date the target is submitted to the SBTi for validation Well-to-Wake (WTW) emissions in base year 100,000 metric tonnes of CO2 equivalent (tCO2e) Activity in base year 1,000,000,000 gross tonne nautical miles (GT.nm) Expected activity in target year 1,300,000,000 gross tonne nautical miles (GT.nm)

Sectoral Decarbonization Approach - Maritime Transport Tool

Version: Version 1.0 Please refer to: Terms of use Contact: info@sciencebasedtargets.org Disclaimer





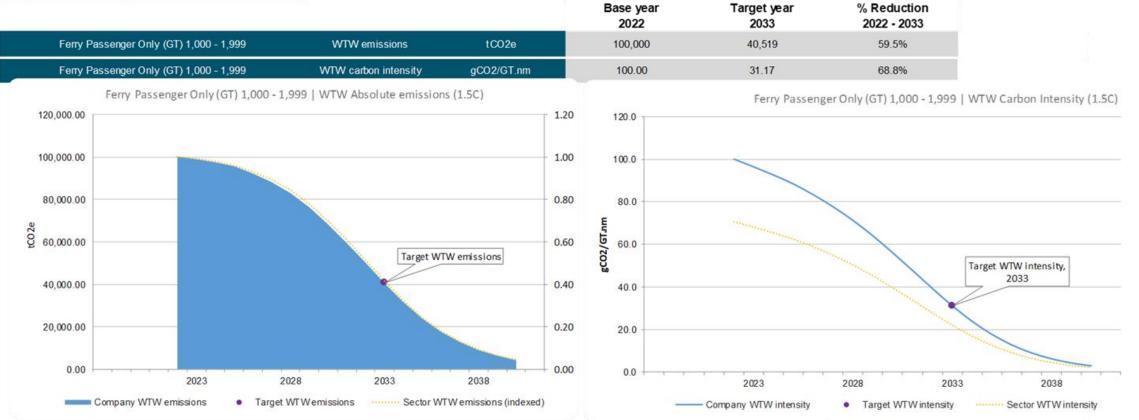






Section 4. Review target modelling results

Target modelling results - 1.5C



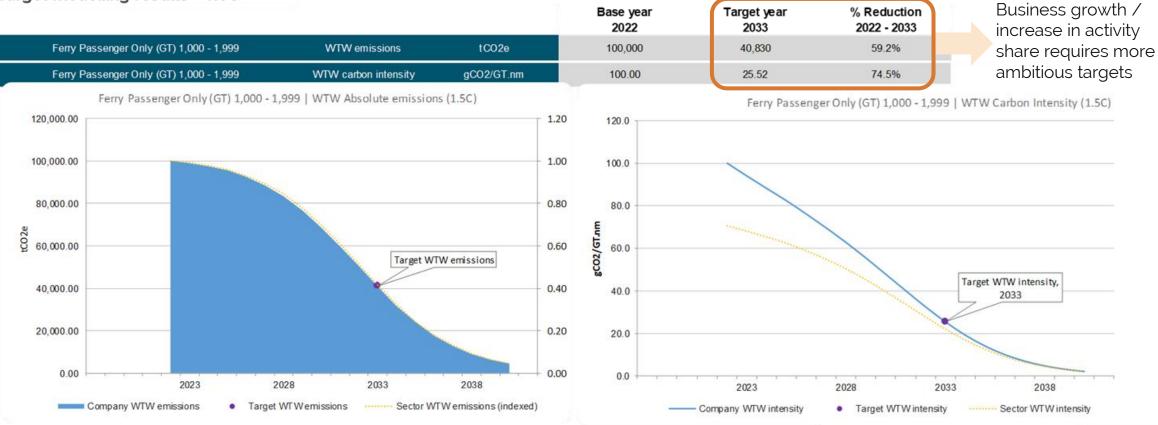
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FERRY OPERATOR



Section 4. Review target modelling results

Target modelling results - 1.5C





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Q&A SESSION



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CLOSING





THE TIME TO ACT IS NOW!

- In January 2023 we will start with a series of training webinars. Join <u>our mailing list</u> to receive updates.
- Should you have any questions, contact us at info@sciencebasedtargets.org.
- The new guidance and materials, as well as the recording of this webinar can be found on the **NEW <u>SBTi maritime webpage</u>**.
- We are urgently calling on **all companies to set science-based** net-zero targets



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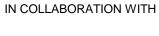
THANK YOU













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