



WATER
REVOLUTION
FOUNDATION

YACHT ENVIRONMENTAL TRANSPARENCY INDEX

The Reliable Reference to
Assess & Compare Yachts



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BACKGROUND

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Why is a reliable reference needed?

- Understand **environmental impact** of large yachts
- Provide a **common approach** & standard methodology for assessing & comparing the environmental credentials of yachts
- **Verify claims** that a yacht (concept) is more environmentally friendly
- Enable the creation of a **ranking system** (e.g. energy labels) for more informed decision making when commissioning new builds, buying pre-owned, or chartering a yacht
- Define the **environmental ambition** for clients, designers, shipyards, & projects
- Offer **quantifiable proposals** with a sustainable focus for both new-build and refit

Mission

YETI is a joint industry project started in March 2019 to discuss, explore, exchange and co-create a coordinated way forward to address and tackle yachts' environmental impact.

Goal

To develop a method for assessing and comparing large yachts on their environmental credentials, create a new level playing field, provide transparency for the market and a driving mechanism for the industry and clients to reduce environmental impact through smarter design, engineering and adoption of better solutions.

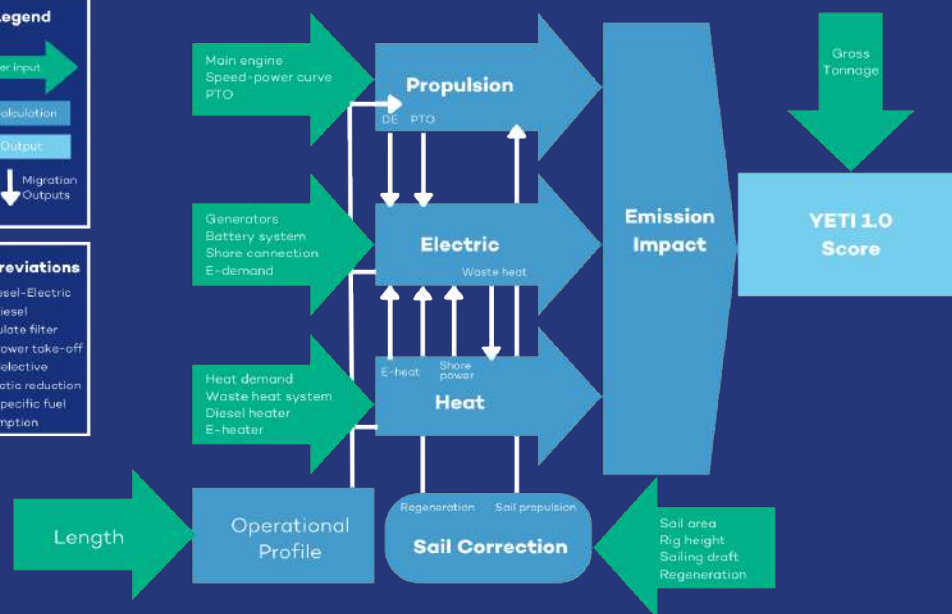
Approach

Leading industry players have joined forces to share knowledge and experience, conduct collective research, and analyse data. Together, they are exploring the development of a reliable method for assessing and comparing large yachts on their environmental footprint by applying the scientific approach of Life Cycle Assessment (LCA). Find out who is part of the joint industry project here.

Through a commonly agreed method, yachting stakeholders can make calculations to **understand the footprint** and where it comes from, **reduce this footprint** by emphasising the opportunities to do so, **analyse all choices** by calculating effects of different technologies and driving new innovations, **prioritise investments** toward environmental impact reduction, **provide official scores** to yachts, **verify claims** on their environmental friendliness, and **give the market transparency** for more informed decision-making.



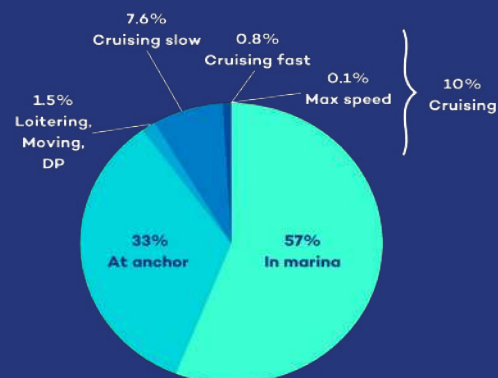
YETI EXPLAINED 2



Click on image for detailed presentation explaining YETI.

Scope

The YETI group developed a method to **voluntarily assess a yacht's environmental footprint** for both awareness and action to mitigate this impact. It aims to tackle the fleet's impact at its core by benchmarking yachts against the average operational profile that they have been found to have in common.



YETI assesses the emission impact of large motor and sailing yachts (30m+) with a **focus on their operational phase**. The outcome is a **single score**, meant to understand where the vessel stands, why that is the case, and what opportunities to improve its environmental credentials exist.

It is not intended as an alternative for legislative developments such as EEDI, EEXI, CII, etc., going beyond CO2 impact and based on Life Cycle Approach.

Calculation

YETI introduces a new term for the industry to express environmental impact: **EcoPoints**. This allows to calculate the various effects of CO2, CO, HC, NOx, Ammonia, & PM 2.5 in one single number. Specific impacts are also reported separately, to allow for steering on a selection of them (e.g. CO2 equivalent, which is common with focus of regulatory bodies).

Learn more about YETI [here](#).

ROLE OF YETI

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WHAT MAKES THE METHOD CREDIBLE?

As a joint industry project between renowned shipyards, naval architecture studios, and research institutes, the YETI method has been the result of combined industry and environmental expertise and data. Together, the group have statistically found an average operational profile, conducted a shore power study, assessed the upstream impacts of diesel, worked on a database of the most commonly used engines and generators with emission data from manufacturers, and developed a “sail correction.” With their unrivalled accumulated brain power, experience, and data, the participants behind YETI have set competition aside and together prescribed the science-based, data-driven protocol for systematically reducing the yachting sector’s environmental impact.



Platform for the industry to share research and combine resources for **exploration of a common method** to address and subsequently reduce yachts’ environmental impact, guided by science and beyond legislative requirements.



Industry-wide approach for and by leading shipyards, designers, architects, and engineers to work on new industry standards and level playing fields.



Reference for industry stakeholders to calculate status quo and develop new designs and improvement plans for upgrading the existing fleet.

HOW TO OBTAIN A YETI SCORE 4

YETI scores are obtained through an entirely voluntary, informal process. Your score is based on own input and reflects the naval architecture and onboard systems of a yacht, with the average operational profile translated into annual consumption and emissions. In order to make this assessment, information concerning a vessel's general parameters, speed-power, load determination, generators, battery bank, and heat distribution systems are required as input data.



Contact us with your intention to calculate YETI score by signing the agreement & submitting the required input data. The agreement is to secure your data, ensure its accuracy, and manage mutual expectations.

Your score will be calculated & you will receive a general indication of your yacht's standing in our fleet review for free. Note that the score will be anonymised.



Receive the full range of benefits offered with the YETI service by getting your score with an extensive feedback report explaining how the score was found, comparing it to other assessed yachts within the same size range, and providing concrete recommendations to improve. This custom report costs €2,500 to cover the labour that goes into producing it, which goes directly back into the YETI project budget.



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THIS COLLECTIVE EFFORT WILL LEAD TO A BETTER UNDERSTANDING OF HOW TO DECREASE ENERGY DEMAND, RAISE SYSTEM EFFICIENCY, AND ULTIMATELY STIMULATE THE REDUCTION OF ENVIRONMENTAL IMPACT.”

Bram Jongepier

Initiator of YETI & Senior Designer at Feadship-De Voogt Naval Architects



THE FUTURE OF YETI 5

Water Revolution Foundation's board of directors have defined a number of concrete goals for upgrading YETI in their three-year plan. We will also be organising workshops for members of the industry to better understand the YETI calculation method.

Official YETI scores can be offered once the input data is more widely adopted, standardised, and can be verified by an independent third party. This method offers a way to stay ahead of legislative requirements and drive impact on a voluntary yet scientific and data-driven basis.

- 1) Deliver hotel load calculator & integrate into YETI
- 2) YETI 2.0 update with inclusion of alternative fuel calculation
- 3) Update YETI to 3.0 version with build materials & expanding environmental indicators



GET INVOLVED WITH YETI NOW!

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You can immediately begin the process of understanding your yacht's environmental credentials by [submitting your data](#) on the input sheet **here**. Companies that can support the group with expertise and data are encouraged to take part in this unique collaboration. For further information on the data collection process and get involved, please do not hesitate to reach out to us.

Don't wait – [submit data today to discover where your yacht stands](#), consider upgrades to reduce its impact, and pave the way for a sustainable yachting industry.



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