

Baltic Yachts Oy Ab Ltd, Tommy Björklund





BALTIC YACHTS

Sustainable Composite Superyachts

 *Baltic Yachts* LIGHTER, STIFFER, FASTER, **GREENER** – TOGETHER

Tommy Björklund, Head of Production and Facilities
Lujitemuovipäivät 2023 - 12-13.10.2023



FINLAND, OSTROBOTHNIA

Baltic Yachts is based in Ostrobothnia, on Finland's west coast, an area well known for its shipbuilding traditions. It was once Finland's most important ship producing region, delivering vessels all over the world in the 18th century.

The combination of local woodworking skills, passed down over generations, and easily accessible timber, led to the construction of the largest fleet of ships in Finland.



 *Baltic Yachts*

 *Baltic Yachts*



HOW IT ALL BEGAN

In 1973, five young men set out to build top quality, comfortable cruising yachts with racing potential, but with displacement lighter than that of their competitors.

The aim was to improve performance and make life aboard yachts easier and more enjoyable. To achieve this the company employed new boat building techniques and high-tech materials.

This was done by utilizing more modern high-tech materials and methods.

→ LIGHTER, STIFFER, FASTER

The original yard in Bosund, still active today, was established in 1973-1974.





FIRST EVER BALTIC

The first ever Baltic 46 designed by C&C, was successfully exhibited at the Hamburg Boat Show in October 1974.

S/Y Queen Anne is still with the second ever owner's family.



WHO WE ARE TODAY

Baltic Yachts was founded on the philosophy light, stiff and fast, which we still live by almost 50 years later.

Our value promise is building “Lighter, Stiffer, Faster, **Greener** - Together”.

We are the world’s leading builder of custom designed, advanced carbon composite superyachts.

We specialize in sailing yachts up to 260ft/79metres.

Total deliveries to date:	563
Above 100ft:	17
Currently in build:	4





QUALITY MEANS MORE

Certified by DNV GL
ISO 9001:2015 Quality
ISO 14001:2015 Environment
ISO 45001:2018 Occupational
Health & Safety

Fulfilling the requirements in sales, design & building of exclusive, tailor-made, high performance sailing yachts and power boats

We are the first yacht building yard in the world to achieve all three certificates.

Approved manufacturer of reinforced plastics by DNV GL
AMPM000003K



An aerial photograph of a vast, interconnected lake system with numerous islands and peninsulas. The water is a deep blue, and the surrounding land is covered in dense green forests and some open fields. The sky is bright blue with scattered white clouds. The word "COMPOSITES" is overlaid in the center of the image in a large, white, sans-serif font.

COMPOSITES



CARBON COMPOSITES

Compared with aluminum, carbon composites are lighter, stronger, stiffer and more versatile.

Add to this carbon's low maintenance, long lifespan, absence of corrosion and non-magnetic properties, and it is no wonder that it is widely regarded as the premium material for yacht construction.

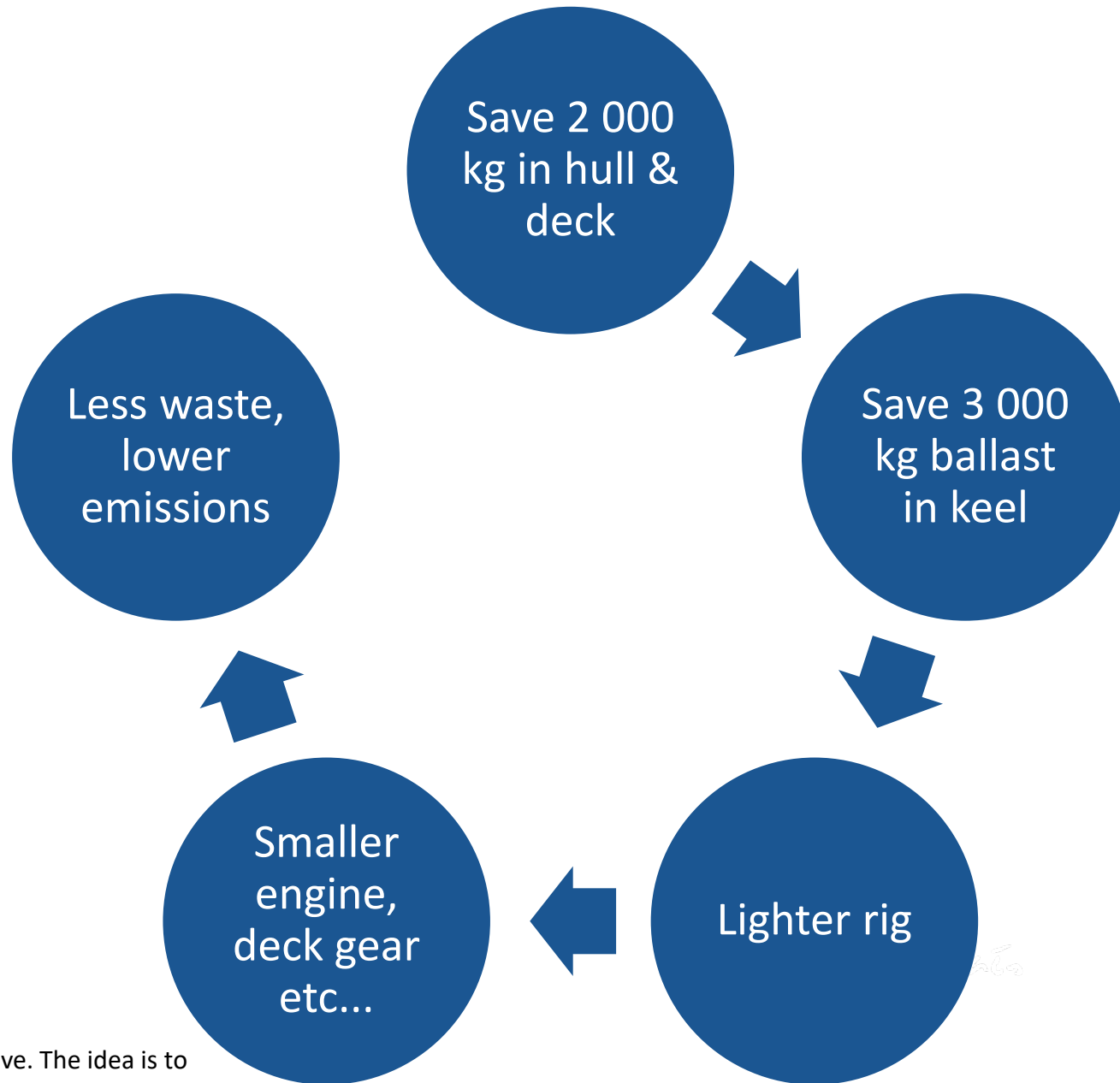
Carbon fiber usage can be optimized easily to meet specific engineering requirements so that it is only used where needed and avoids waste.

Its flexibility in design and speed of use in production are also big advantages.



CHARACTERISTICS OF A COMPOSITE YACHT

- A composite yacht is lighter
- A lighter yacht is a faster yacht
- Improved overall acceleration
- Faster close quarters manouvering
- Enables dual roles – fast, comfortable cruising and regatta racing
- Easier handling
- Reduced rig loads compared with a heavier yacht of the same length
- Easier to maintain
- Good seakeeping qualities



**LIGHTER, STIFFER,
FASTER - GREENER**



All number are fictive. The idea is to show the impact of weight reduction on a project.

An aerial photograph of a vast, interconnected lake system with numerous islands and peninsulas. The water is a deep blue, and the surrounding land is covered in dense green forests. In the foreground, there are some cleared areas, possibly fields or pastures, and a small cluster of buildings near a shoreline. The sky is bright blue with scattered white clouds. The word "GREENER" is overlaid in the center of the image.

GREENER



GREENER CHOICES

The fundamentals of sailing have been unchanged for thousands of years. The wind is free and sailing is one of the cleanest and most ecologically sound pursuits available to mankind.

Lately, while listening carefully to our customers, we see a trend towards using natural fibres like flax, finding new alternatives for decking, electrical propulsion and hydrogeneration.

We are also making a concerted effort to reduce our build time environmental impact through minimising the use of fossil fuels, exploring organic materials such as flax in structures, and focusing on waste reduction and waste management.



A GREENER YARD

All the electricity supplied to our production facilities is locally produced, sourced from nearby windfarms or hydropower.

We have replaced fossil fuels for heating the production facilities, and moved to organic, pellet-fueled heating. We are also working on reducing energy consumption throughout our operation to reduce our environmental impact even further.

Since 2017, we have been tracking production-related waste. We have managed to reduce unsorted waste to zero, and also reduced the waste produced per labour hour by more than 10%.

Most of our production tooling is made from organic and recyclable materials.

SUSTAINABILITY 2030 – OUR STRATEGIC THEME

Why is it relevant:

- Staying in tune with the changing marketplace
- Makes us attractive as an employer for coming generations of boatbuilders
- It gives us great stories for social media



STRATEGIC FOCUS
SUSTAINABILITY 2030

SUSTAINABILITY 2030 – OUR STRATEGIC THEME

How we go about it:

- We track buildtime environmental impact
- Production tools from recyclable materials
- Flax & possibly eco resins finally making their way into production (B68CR)
- Build local network to find suppliers close by (Ostrobothnia and Finland)
- For unsorted waste we are at net ZERO already
- Participation in local circular economy (Alholmen Industrial Park) enables usage of sorted waste
- We actively offer solutions to minimize LIFECYCLE emissions on yachts we deliver
- All electricity supplied is earmarked local windfarm power or hydropower. From 2024 onwards solarpanels will provide electricity as well.
- We encourage co-creation and participation within the “Baltic Family” for a more sustainable future
- Encourage biking (“kilometrikisa”)
- Encourage shift towards electrical / hybrid cars



STRATEGIC FOCUS
SUSTAINABILITY 2030
ACTIONS TO DATE



SUSTAINABLE PRODUCTS SINCE 1973

... WHERE TWO EXTREMES MEET ...

2019 – BALTIC 142 CANOVA

1973 – BALTIC 46-01 QUEEN ANNE



Baltic Yachts LIGHTER, STIFFER, FASTER, **GREENER** – TOGETHER

**BALTIC 142 CANOVA
DELIVERY 09/2019**

LOW LOCAL EMISSIONS BLUE WATER CRUISER

CANOVA

NYYC

WHITE BAY

YCI

DESIGN BRIEF:

**IMPROVED PERFORMANCE, INCREASED
COMFORT, CLEANER PROPULSION, A QUIET
YACHT.**

**EXPLORING REMOTE AREAS.
HYDROGENERATION.
OWNER AMIDSHIPS.**



LOA: 43.3 m
BEAM: 9 m
SAILS: 960 m²
DISPL: 146 t
NAVAL ARCHITECT:
FARR YACHT DESIGN
STYLING: LUCIO
MICHELETTI

BATTERIES: 210kW

SILENT: 9 hrs

UNDER POWER: 6 hrs
@1/2 speed

 **REGENERATION**
@16,7 kW (14 kn)

WINNER OF 2020
“SUPERYACHT OF
THE YEAR” AWARD



TRANSLATION:
CANOVA CAN CROSS THE ATLANTIC
WITHOUT BURNING A DROP OF FOSSIL
FUEL!

ZERO EMISSIONS - PROPULSION

To minimize the use of fossil fuels, we often use electrical propulsion

The drive train is fully electrical

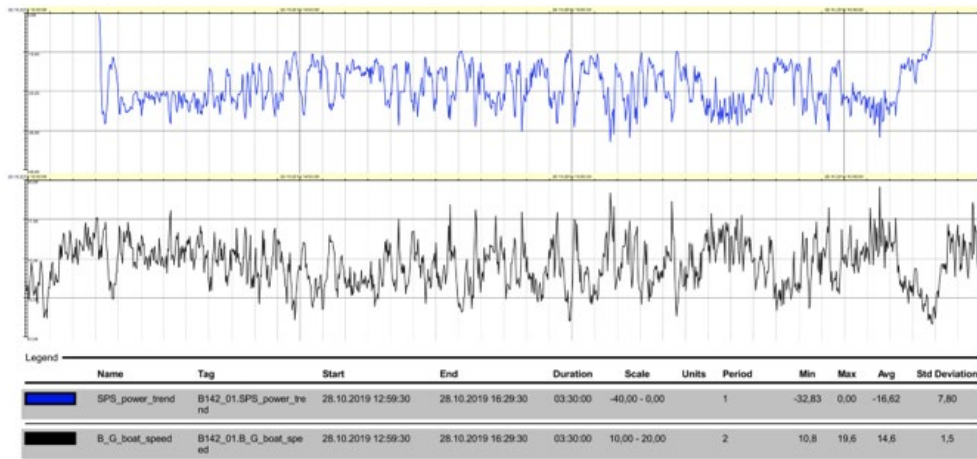
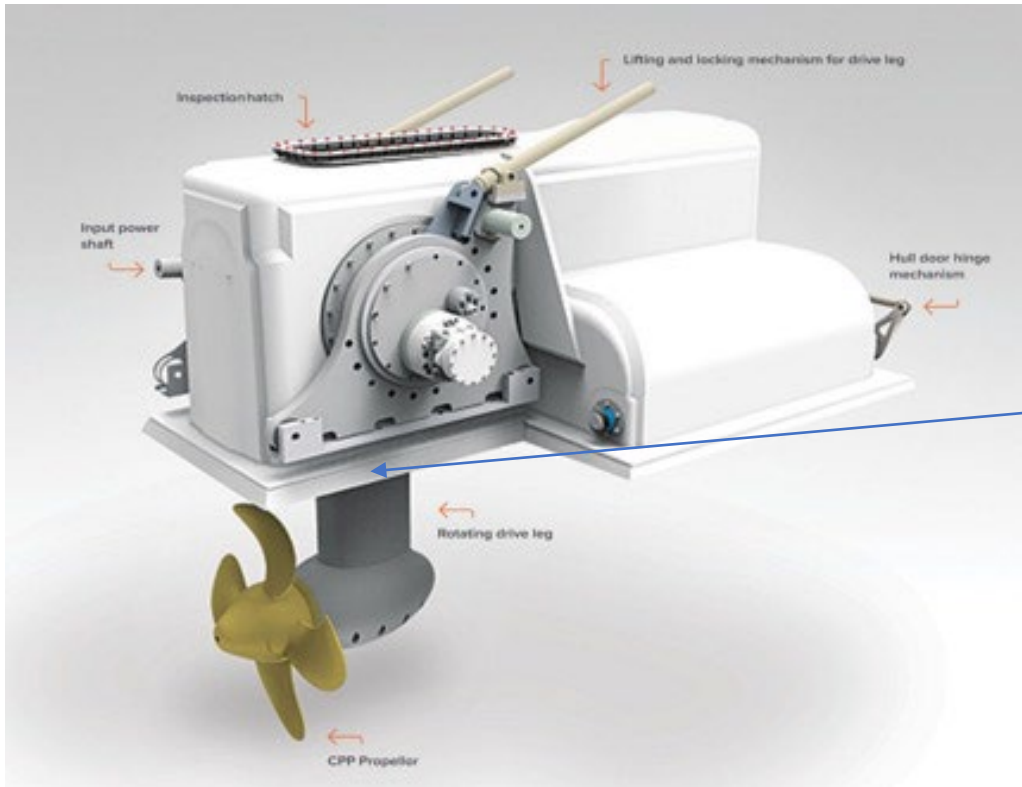
When racing, “sealeg” can be retracted for minimal drag

Energy is stored in battery banks

When in harbor, battery banks are powered through shore power

When under sail, regeneration is used to charge batteries

Diesel generators are ONLY used as backup



Baltic Yachts





RETRACTABLE PROPULSION SYSTEM

Acceleration, speed and maneuverability are key for efficient sailing and a competitive edge.

Making the underwater surface of the hull as fair as possible by retracting the propeller is one innovative way of achieving this.

Working with propeller experts Hundedest we've fitted a number of Retractable Propulsion Systems. The latest models feature 360° rotation so that the unit doubles as a stern thruster.

With the propeller retracted there is no drag which equates to more efficient sailing, increased speed and greater maneuverability on the racecourse.



SUSTAINABILITY IN REAL LIFE

The 1973 s/y Queen Anne is the first Baltic ever built (B46-01)

The Baltic 46 was a very advanced product for its time, with a level of technology exceeding many of the serial production yachts seen on today's market.

In 1973, a 46-footer was already almost "Superyacht" territory in terms of size... She is still with the second ever owners' family.

s/y Queen Anne will participate in the Ocean Globe Race around the world 2023->, commemorating both the boat's and the yard's 50th anniversary.

What other consumer product has a lifespan of almost 50 years? With no end in sight?



RECENTLY LAUNCHED/DELIVERED

**BALTIC B111-01
RAVEN**



BALTIC B110-01
ZEMI



BALTIC 146 PATH







BALTIC 117 PERSEVERANCE







**BALTIC 67PC-03
FREEDOM**



**BALTIC 68 CAFÉ RACER
PINK GIN VERDE**







**“GREAT THINGS ARE DONE BY A SERIES
OF SMALL THINGS BROUGHT TOGETHER”**

Vincent van Gogh

An aerial photograph of a sailboat's sail, which is a vibrant green color, set against a deep blue sea with visible white-capped waves. The sail is the central focus, tapering towards the top where it is attached to the mast. The text 'KIITOS! THANK YOU!' is overlaid in white on the sail.

**KIITOS!
THANK YOU!**



Ballie Yachts LIGHTER, STIFFER, FASTER, **GREENER** – TOGETHER