O Wallenius Wilhelmsen Ocean

Destination: decarbonisation

Roger Strevens, November 16th 2021



Wallenius Wilhelmsen in brief

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VALUE CHAIN AND PRODUCT OFFERING

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Ocean Landbased



Destination decarbonisation

- A 21st century smokestack industry
- Climate change urgency rising fast
- Disruptive momentum building

Change in status-quo inevitable



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A big and varied industry: so many different needs / opportunities



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N°

All hands on deck



What makes a new solution stack up?

... and remember:



Key elements of our approach to decarbonistion



Propulsion Prospects



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Orcelle Wind



N° E/S Orcelle – still guiding our course

- Debuted at the World EXPO in 2005,
 - Original zero emissions concept vessel
 - Envisaged a combination of novel technologies
 - Signal effect
- Huge progress (-33% CO_{2e}/tkm 2008:19), but decarbonizing means embracing change on a grander scale
- We still believe in the Orcelle concept and so we introduce the Orcelle Wind....



N° Orcelle Wind – progress from concept to solution

- One of WW's leading decarbonisation initiatives
- $\circ~$ Est. up to -90% GHG emissions v's current best
- Provisional plan:









Investing to succeed





Aerodynamic analysis



Structural analysis



Tank testing





Model testing



Land-based full-scale wing trials



Vessel-based wing testing

A global evaluation for a global network



- Analysis of multiple trade routes because deployment flexibility is critical to achieving network efficiency
- Being considered: geographical and seasonal variation in winds and currents, port access & fuel availability
- → In search of a green corridor

N° Decarbonisation: the ultimate test of resilience

- Status quo will not remain
- Disruptor or 'disruptee'?
- Opportunity in disguise
- \circ Solutions stack
- Orcelle Wind: bold enough?



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Sustainable logistics for a world in motion

Thank you for your attention.

