



BUREAU
VERITAS

OptiCARBON™

FOR FORWARD-THINKING FLEETS.

SUMMARY



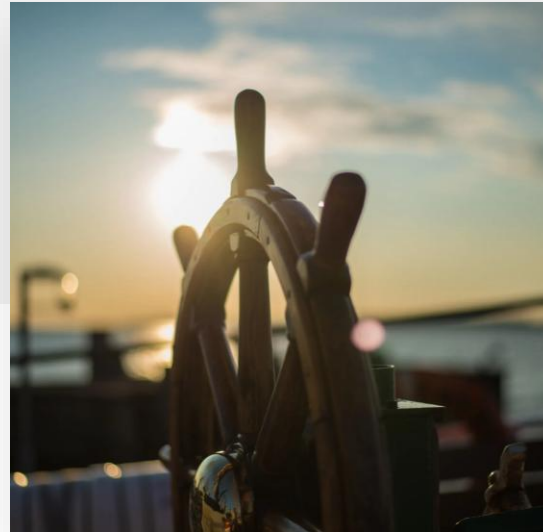
1

**SUSTAINABILITY
CHALLENGES**



2

**OptiCARBON™
OVERVIEW**



3

DEMO



4

**OptiCARBON™ &
BRITTANY FERRIES**

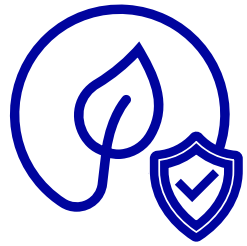


01.

Sustainability Challenges



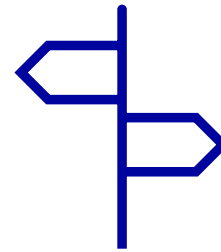
SUPPORTING YOU THROUGH THE CHALLENGES OF OPERATING A SUSTAINABLE FLEET



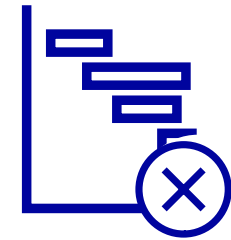
Decarbonization
challenges
& evolving
regulations



Rising
environmental
taxation



Complex decision-
making for
fleet investment



Unreliable
spreadsheet-based
tools



02.

OptiCARBON™ OVERVIEW



OptiCARBON™

FOR FORWARD-THINKING FLEETS

VALUE PROPOSITION

OptiCARBON™ is an **advanced web-based SaaS solution** designed to support and adapt your **decarbonization strategy** over time, with full **Bureau Veritas support**.

TOP BENEFICIARIES

Shipowners, operators, and charterers for:

- **Passenger segments:** Ferry, RoRo, and Cruise



GETTING STARTED WITH OptiCARBON™

YOU

- Provide vessel characteristics
- Provide operating profiles



BVS

- Digitalize the fleet
- Implement operating profile in OptiCARBON™
- Build decarbonization strategies with clients



OptiCARBON™

Create and test decarbonization strategies for each vessel, and assess fleet-wide impacts on costs, emissions, and regulatory compliance.

YOU
with BVS support

SCENARIO 1

- › Baseline Scenario 2035



Costs 1

SCENARIO 2

- › Technological upgrade for vessel A in 2028
- › Operating change for vessel B in 2028
- › OPS available for vessel C in 2029
- › Biofuel mix increased for vessel D in 2030



Costs &
ROI 2

SCENARIO X

- › Retrofit for vessel X in 20XX
- › Operating change for vessel X in 20XX
- › ...



Costs &
ROI 3

03.

DEMONSTRATION



Fleet Edit

Line Edit

Port View

Fleet Edit

Year

2026

CSV

PDF

↓

Warnings

The following tuple(s) present hole(s) between lines
Tanker 1. weeks 1-52

Vessel name	W1	W2	W3	W4	W5	W6	W7	W8	W9	W10	W11	W12	W13
Tanker 1	LINE_1									LINE_1_W9			
Container 1													
Container 2													
Bulk 1	LINE_2								LINE_2_W8				
Bulk 2	LINE_1								LINE_1_W8				
LNGc 1													
Ferry 1	LINE_1	LINE_1_W2											
General Cargo 1	LINE_1						LINE_1_W6						
Cargo under construction													

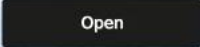
- Home
- Administration
- Database
- User preferences
- Logout

Scenarios



☐ All users

 My GHG Strategy	U	Created 89 day(s) ago	
 My GHG Strategy_B	U	Created 26 day(s) ago	



- Home
- Operating Profiles
- Vessels
- Scheduling
- Outputs
- Simulation
- Optimization
- Administration
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- User preferences
- Logout

CII

Consumption

Emissions

FuelEU Maritime

Costs

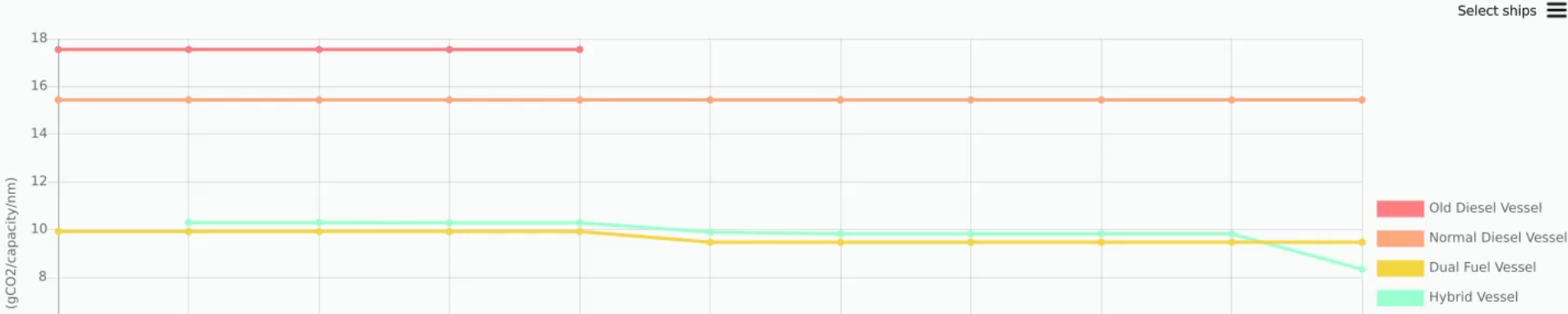
GFI

CII

CII ratings

Vessel name	End of compliance	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
Old Diesel Vessel	2027	D	D	D	D	E	-	-	-	-	-	-
Normal Diesel Vessel	2029	C	C	D	D	D	D	E	E	E	E	E
Dual Fuel Vessel	-	A	A	A	B	B	B	B	B	B	B	C
Hybrid Vessel	-	-	A	B	B	B	B	B	B	B	C	B

Attained CII graph



- Home
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CII

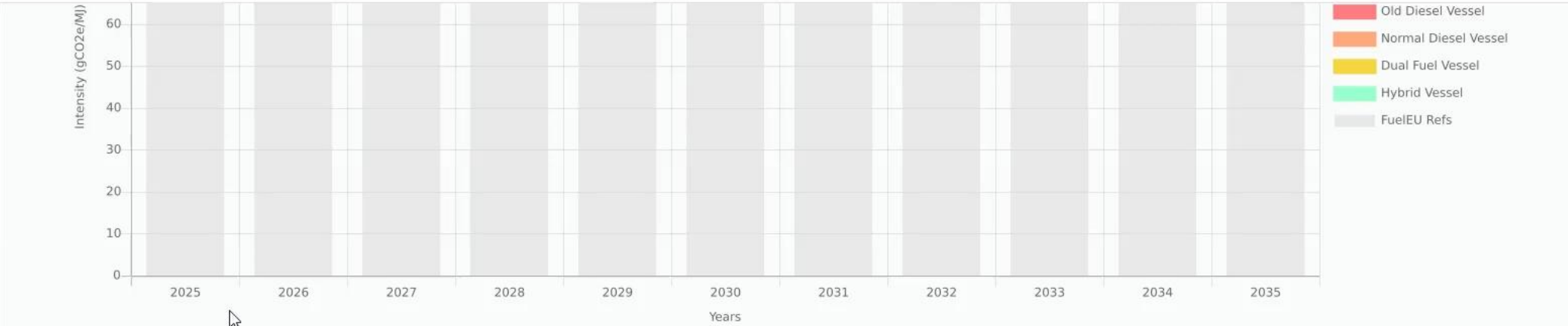
Consumption

Emissions

FuelEU Maritime

Costs

GFI



Fuel GHG Emissions Intensity (gCO2e/MJ) [CSV Export](#)

Vessel name	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
Old Diesel Vessel	91.75	91.75	91.75	91.75	91.75	0.00	0.00	0.00	0.00	0.00	0.00
Normal Diesel Vessel	90.96	90.96	90.96	90.96	90.96	90.96	90.96	90.96	90.96	90.96	90.96
Dual Fuel Vessel	88.71	88.71	88.71	88.71	88.71	85.10	85.10	85.10	85.10	85.10	85.10
Hybrid Vessel	0.00	88.35	88.35	88.31	88.31	84.71	84.14	84.14	84.14	84.14	76.27
Reference	89.34	89.34	89.34	89.34	89.34	85.69	85.69	85.69	85.69	85.69	77.94
Fleet Pooling	90.49	89.95	89.95	89.94	89.94	86.95	86.75	86.75	86.75	86.75	84.08
Penalty Estimate(€)	2 199 198	1 565 392	1 565 392	1 538 818	1 538 818	2 505 990	2 125 766	2 125 766	2 125 766	2 125 766	12 673 048



04.

OptiCARBON™ &
BRITTANY FERRIES



HOW DOES BRITTANY FERRIES USE OptiCARBON™?

EVALUATION OF SHORE POWER (OPS) ON A HYBRID VESSEL.

› SIMULATION 1:

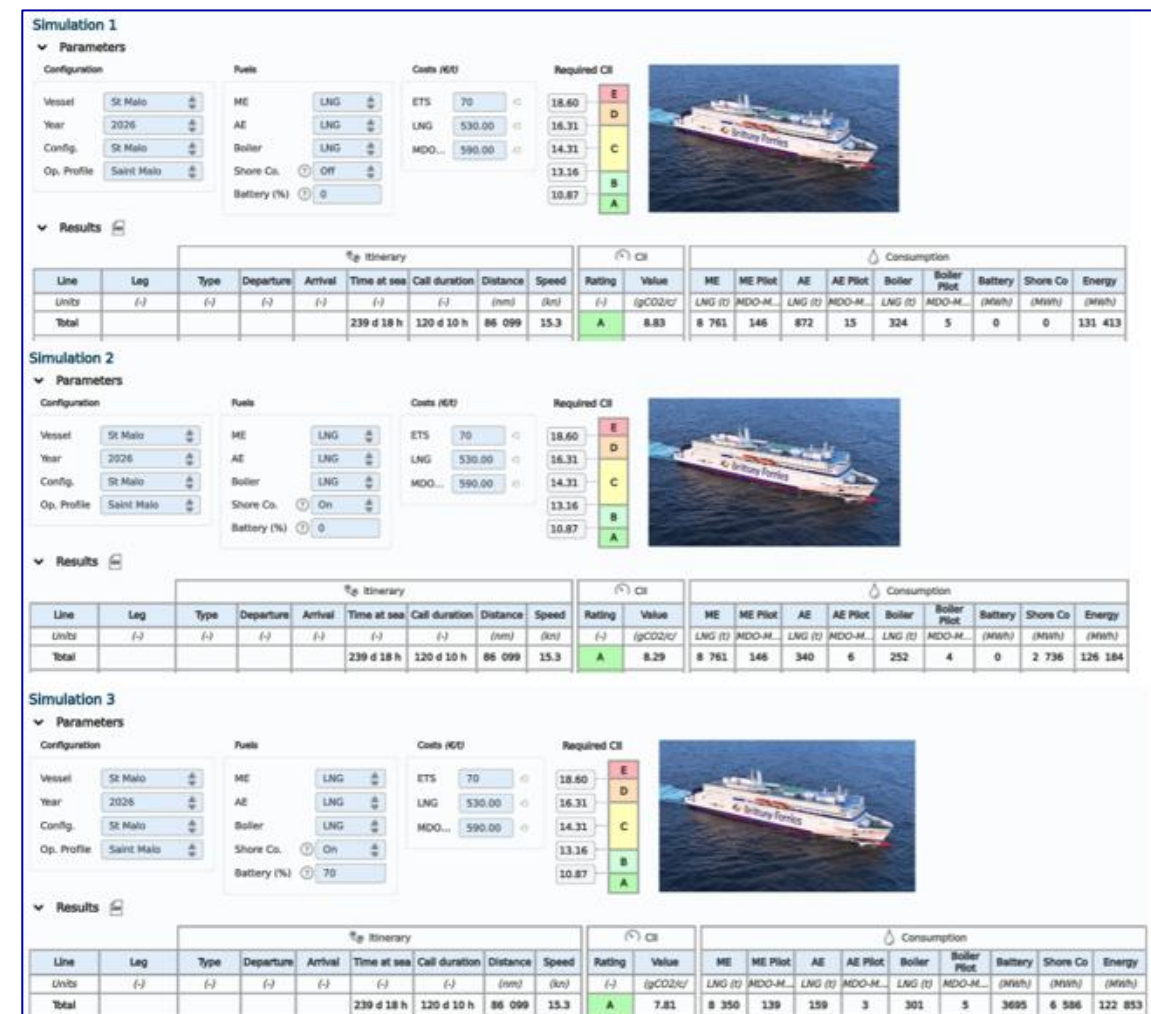
- › **ShoreCo Off, Battery Off**
- › Total LNG = 9,957 t.
- › ETS (70€/tCO₂) = 1,293 k€.

› SIMULATION 2:

- › **ShoreCo On, Battery Off -6.1%**
- › Total LNG = 9,353 t.
- › ETS (70€/tCO₂e) = 1,215 k€.

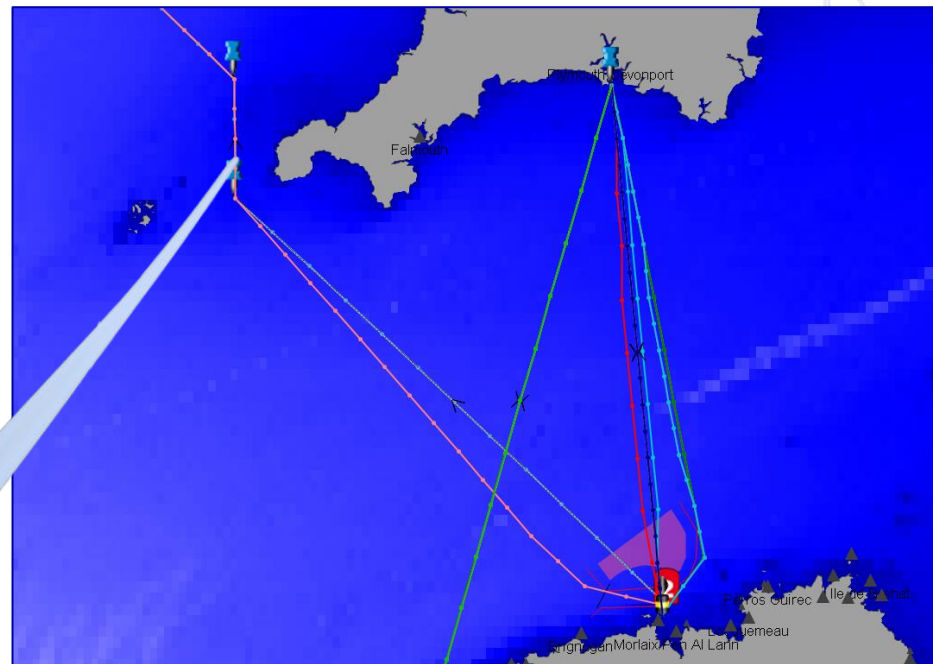
› SIMULATION 3:

- › **ShoreCo On, Battery On -11.5%**
- › Total LNG = 8,810 t.
- › ETS (70€/tCO₂e) = 1,144 k€.

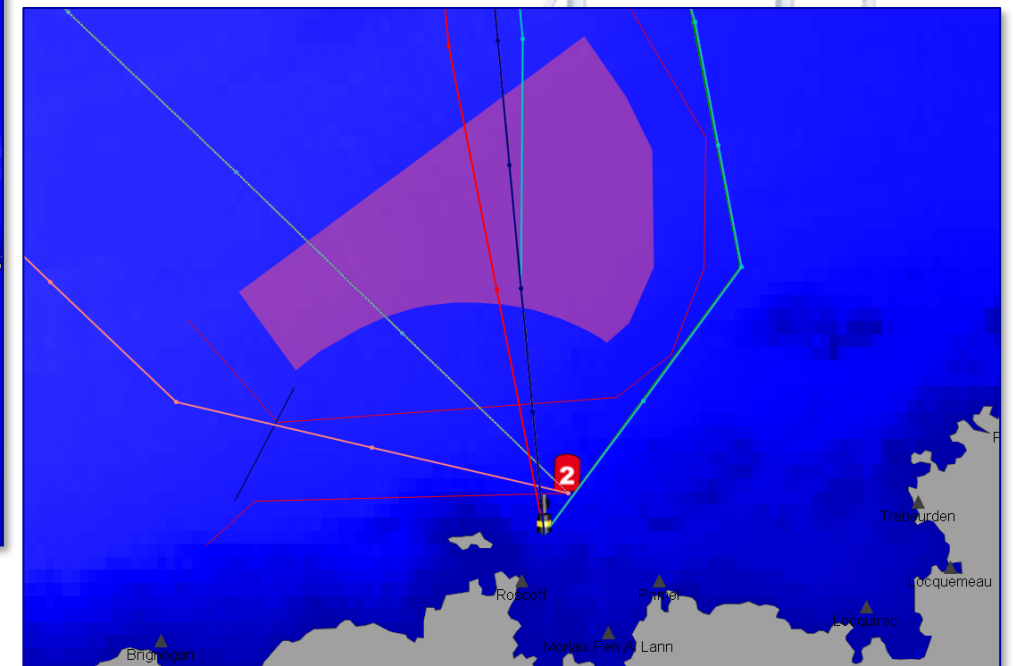


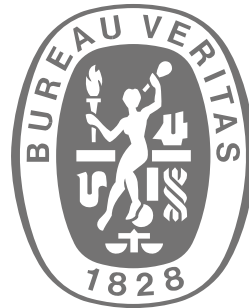
HOW DOES BRITTANY FERRIES USE OptiCARBON™?

SPECIFIC STUDIES, E.G., IMPACT OF WIND FARM IN WESTERN CHANNEL.



2 routes and 2 ships are concerned





**BUREAU
VERITAS**

Shaping a World of Trust

