

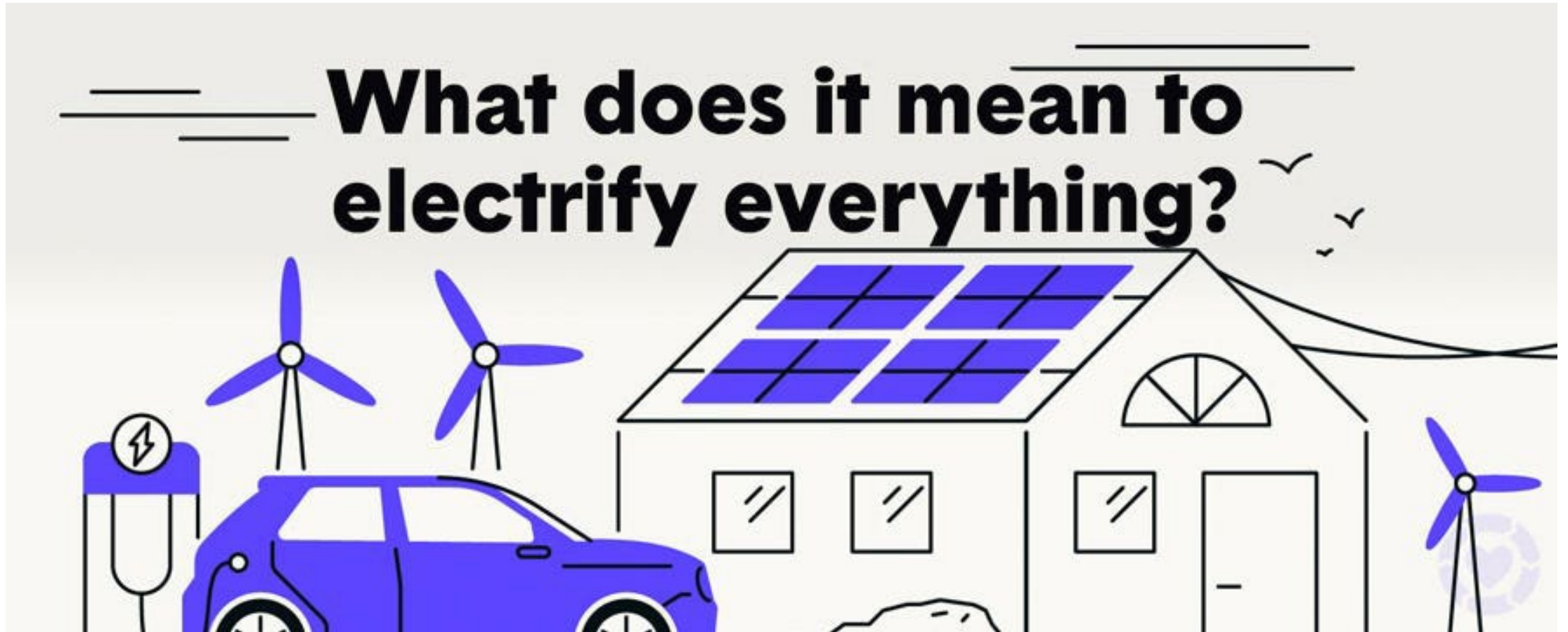
PEI
Aquaculture
roadmap to
net zero



Photo: PEIAA website

Electrify land-based operations

Grid is 86% emissions free



Mussel Industry



Plug-in hybrid lobster boat



Membertou building battery electric lobster boat



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Building the First Electric Lobster Vessel and Shoreside Charger

By: **Curtis Martin**

May 19, 2023



Credit: Heather Grant

K 71

ACOA sponsored hull design competition

"We could see as much as 40 to 45 per cent reduction in fuel consumption and therefore emissions," TriNav director Rick Young

N.L. firm's battery-powered fishing boat wins \$500K efficiency competition

TriNav Marine of St. John's beat out designs by 2 Nova Scotia companies

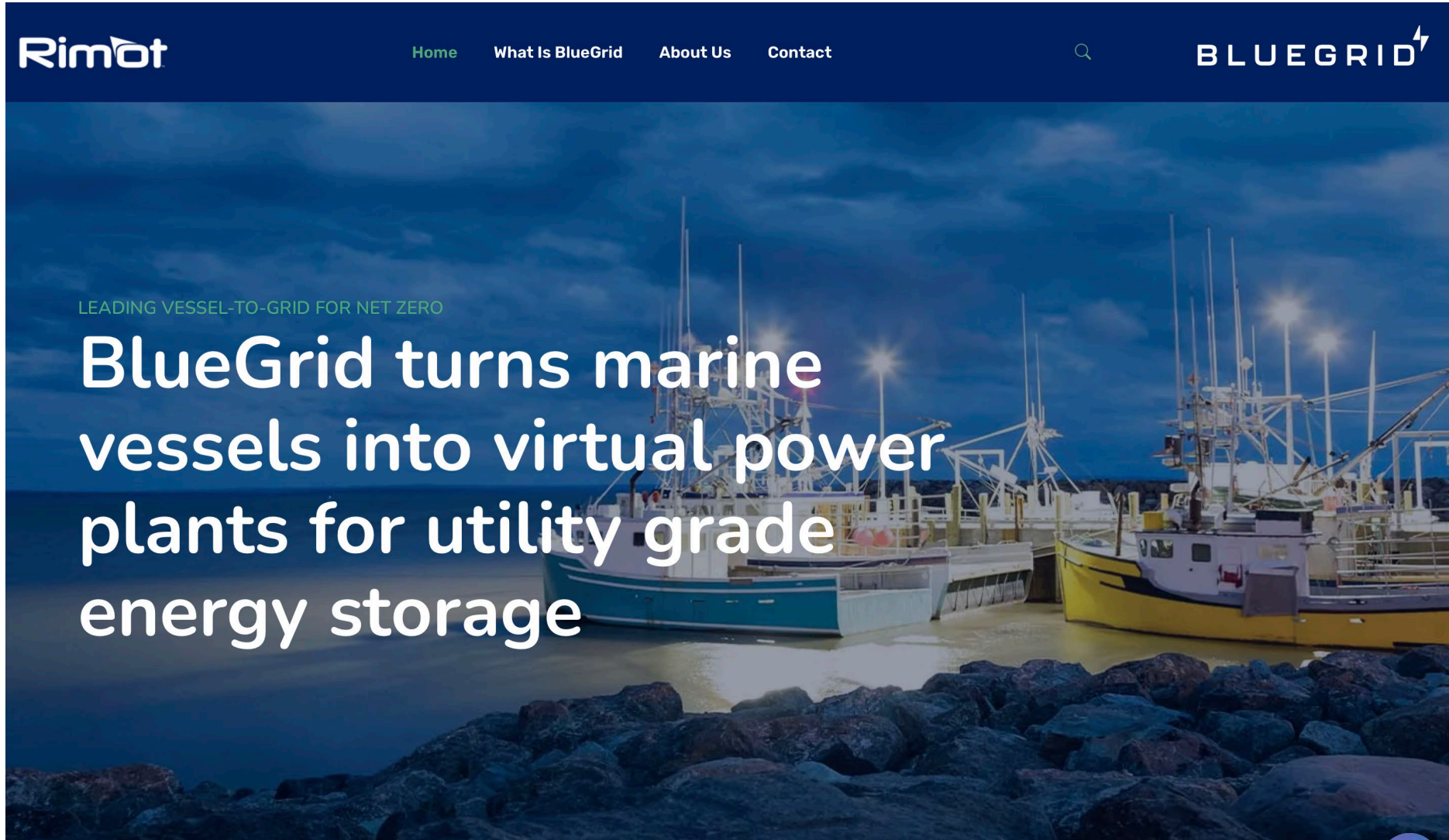


[Paul Withers](#) · CBC News · Posted: May 12, 2021 3:09 PM ADT | Last Updated: May 12, 2021



ACOA's hull design efficiency challenge was open to commercial and non-commercial organizations registered to do business in Atlantic Canada. (Courtesy National Research Council of Canada)

Rimot – instrumenting & grid infrastructure

The image shows a screenshot of the BlueGrid website. The top navigation bar is dark blue with the 'Rimot' logo on the left, followed by links for 'Home', 'What Is BlueGrid', 'About Us', and 'Contact'. On the right side of the navigation bar, there is a search icon and the 'BLUEGRID' logo with a lightning bolt symbol. The main content area features a background image of fishing vessels at a dock at night. Overlaid on this image is the text 'LEADING VESSEL-TO-GRID FOR NET ZERO' in a small, light green font, followed by the main headline 'BlueGrid turns marine vessels into virtual power plants for utility grade energy storage' in a large, white, sans-serif font.

Rimot

[Home](#) [What Is BlueGrid](#) [About Us](#) [Contact](#)

BLUEGRID ⚡

LEADING VESSEL-TO-GRID FOR NET ZERO

BlueGrid turns marine vessels into virtual power plants for utility grade energy storage

Oyster dory/skiff



Electric outboards – removeable batteries



Electric outboard packages



Recreational

Commercial

Green Propulsion

Support

Dealers


Company

Academy

News & Press



RELATED TORQEEEDO PRODUCTS



Cruise 6.0 FP TorqLink
≡ 9.9 HP

\$ 4,999.00



Power 48-5000

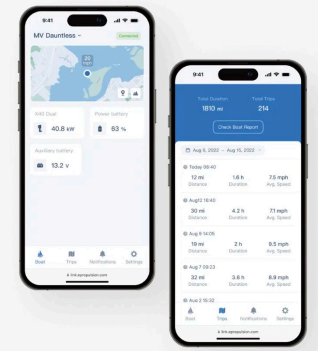
\$ 5,199.00



TorqLink throttle with color display

\$ 379.00

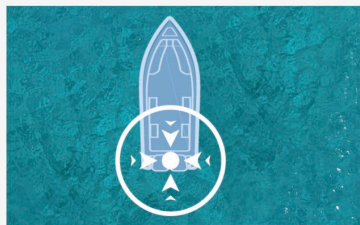
ePropulsion outboards - features



X Series Electric Outboard Motors

40kW 20kW 12kW NEW

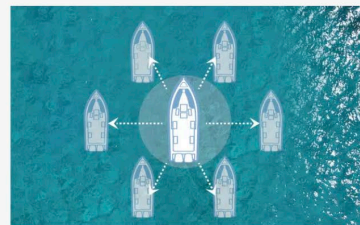
Clean · Quiet · Powerful · Easy-to-Use



Position Hold



Heading Hold



360 Motions

Charge from truck



Floating Platform



- Solar costs down 90%
- Panel output increase 5X
- Battery costs down 90%



Orientation doesn't matter, flat roof is good

Pa

13

1

14

2

15

3

16

4

S

Orientation of Gable End: South-West

ye (middle of bay) Design 1 / System design

Simulate system

Size	Production
13.20kW	12,796kWh

Inspector

Average Annual Production: 12,796 kWh

Orientation of Gable End: South-East

bay) Design 1 / System design

Simulate system

Size	Production
13.20kW	12,848kWh

Inspector

Solar PV Portable Generator

- All required components in one package
- Additional plug-in battery capacity available



Portable Power Systems



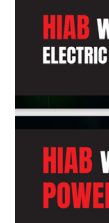
- 7.2-21.6kW output
- 120V and 240V
- 6kWh-90kWh capacity
- Inverter: 70 lb Battery: 116.4 lb
- 5.6kW-16.8kW solar input

Workboat



Hybrid-Electric cranes

- Up to 90% less operating cost
- Battery lasts 1 to 4 days
- Quiet work environment
- Safer due to easier communication
- Fast charge option



SERIES

ELECTRIC POWER FROM HIAB

HYBRID INSTALLATION

Hybrid plug-in system powers the crane by either battery or diesel, as needed.

Downtime is eliminated if the battery is drained.

Maximise your uptime

POWERFUL PERFORMANCE

Matches the speed, strength, and precision of diesel power, while enhancing operational response.

Enjoy the same productivity, regardless of power source.

Optimised for your application

5 YEAR WARRANTY

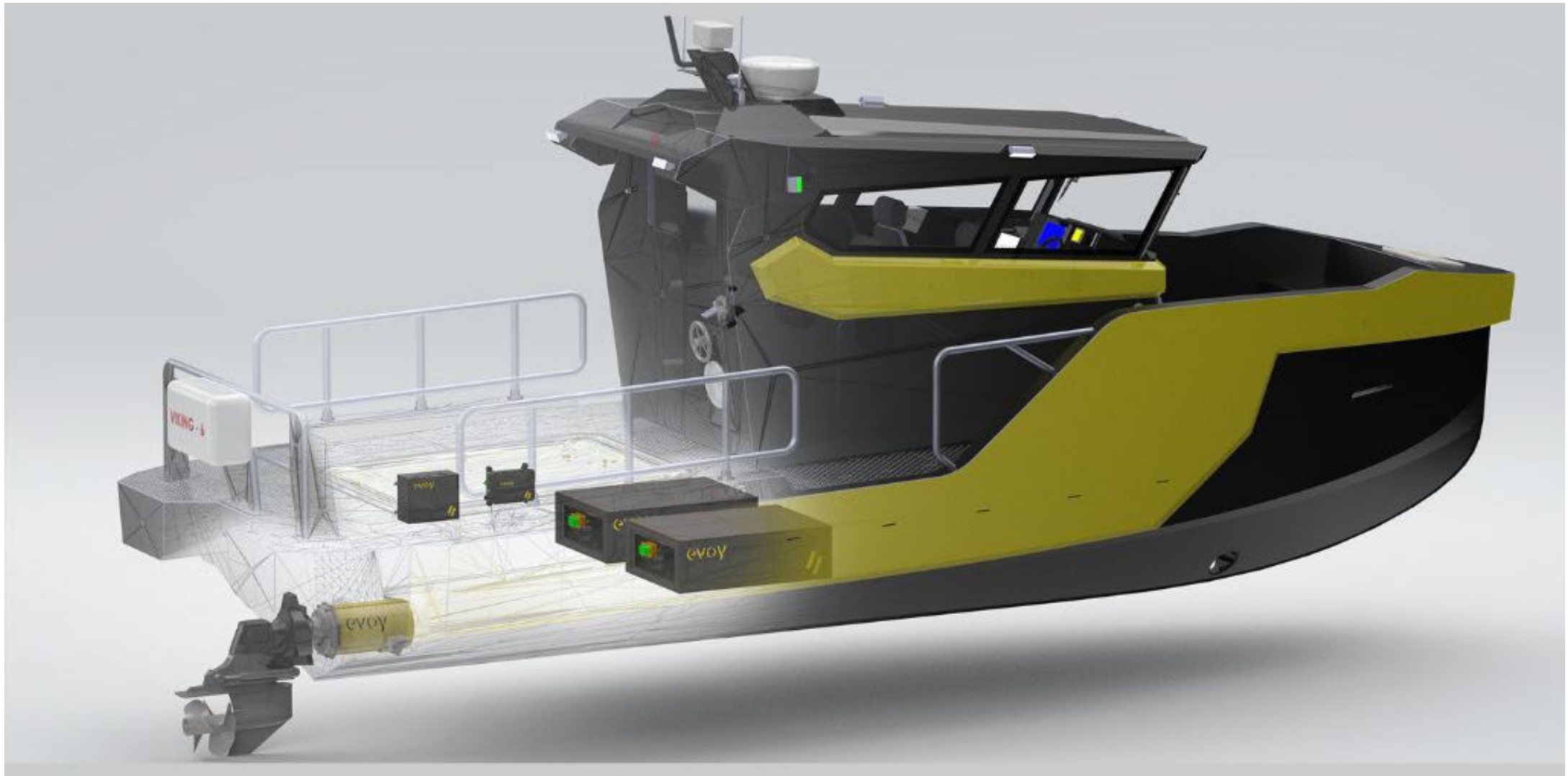
Extensive warranty covering battery modules for five years. Additional battery parts are covered for two years.

Don't worry about expensive battery repairs in the unlikely event of any issue.

For your peace of mind

Evoy building workboats

EVVOY



Lunenburg aluminum boat builder's first electric boat

August 30, 2023

TECH COMMUNITY NEWS

Source: [ABCO](#)

ABCO Industries Inc. is joining the electric revolution

evoy

With the support of ACOA, ABCO has launched their first fully electric commercial boat.

The 32-foot former police patrol boat was salvaged, recycled, and refurbished, demonstrating the resilience of aluminum as a material for a circular marine economy and further enhanced by the electric propulsion system powered by the Evoy Hurricane inboard platform. The Hurricane is a 300kW (400HP equivalent) inboard motor with the ability to hit 600kW (800HP equivalent) at peak output. The combination of aluminum manufacturing and electric propulsion yields a robust, low-maintenance boat that will save owner's money and hold its value all while reducing the impact of commercial vessels on the environment.



This demonstration is the first phase of the Lunenburg Electric Harbour initiative that ABCO and Rimot are executing to showcase the benefits of marine electrification.

[Video](#)

[Read full article](#) ↻



Evoy electric outboard

EVVOY



Electric Outboards from 5hp to 350hp


Private < > plugboats.com Hydrogeneration OKAY MORE INFO


This website uses cookies Search: []


MOTOR	POWER	MOTOR TYPE	SHAFT (cm)	WEIGHT (kg)	OTHER	COUNTRY	PRICE
Aquamot Trend 11.0	kW: 11 V: 48 HP: 28	AC brushless asynchronous Water cooled	75, 83	52.2	Includes controller, joystick, display, cables. Two year limited warranty.	Austria	\$08,000
Aquamot 15.0	kW: 15 V: 48 HP: 35	AC brushless asynchronous Water cooled	75, 83	53.3	Includes controller, joystick, display, cables. Two year limited warranty.	Austria	\$09,000
Aquamot 20.0	kW: 20 V: 96 HP: 40	AC brushless asynchronous Water cooled	75, 83	55.4	Includes controller, joystick, display, cables. Two year limited warranty.	Austria	\$10,250
Aquamot 25.0	kW: 25 V: 96 HP: 45	AC brushless asynchronous Water cooled	75, 83	58.2	Includes controller, joystick, display, cables. Two year limited warranty.	Austria	\$11,400
Aquawatt Green Power	kW: 15 V: 48 HP: 20	AC induction Water cooled	50.8 (Transom Height)	52	Digital motor controller showing RPM, voltage, current, motor temperature, engine hrs	Austria	\$09,350
Aquawatt Green Racing	kW: 26 V: 80 HP: 35	AC 3 phase induction Water cooled	50.8 (Transom Height)	63	Digital motor controller showing RPM, voltage, current, motor temperature, engine hrs	Austria	\$13,100
Aquawatt Green Thruster	kW: 26 V: 80 HP: 40	AC 3 phase induction Water cooled	50.8 (Transom Height)	94	Digital motor controller showing RPM, voltage, current, motor temperature, engine hrs	Austria	\$13,750
Aquawatt Green Flash	kW: 50 V: 144 HP: 70	AC 3 phase induction Water cooled	50.8 (Transom Height)	98	Digital motor controller showing RPM, voltage, current, motor temperature, engine hrs	Austria	\$18,000
Bellmarine Outboard Ecoline 6	kW: 06 V: 48 HP: N/A	AC 3 phase asynchronous Air cooled			Propeller size: 3 blade 15 in.	Netherlands	Not available
Bellmarine Outboard Ultimate 10	kW: 10 V: 48 HP: N/A	AC 3 phase asynchronous Water cooled			Propeller size: 3 blade 15 in.	Netherlands	Not available
Bellmarine Outboard Ultimate 15	kW: 15 V: 48 HP: N/A	AC 3 phase asynchronous Water cooled			Propeller size: 3 blade 15 in.	Netherlands	Not available
Bellmarine Outboard	kW: 20	AC 3 phase			Propeller size: 3 blade 15 in.	Netherlands	Not available

Plugboats Archives

YAMAHA TORQUEDO Yamaha buys Torqeedo
January 19, 2024 0

 Norway leads an electric ferry revolution
January 27, 2019 0

 A beautiful ride in a Beau Lake boat
August 23, 2019 1

 Candela C-8 smashes electric boat range record: 420 nautical miles in 24 hours
September 22, 2023 0

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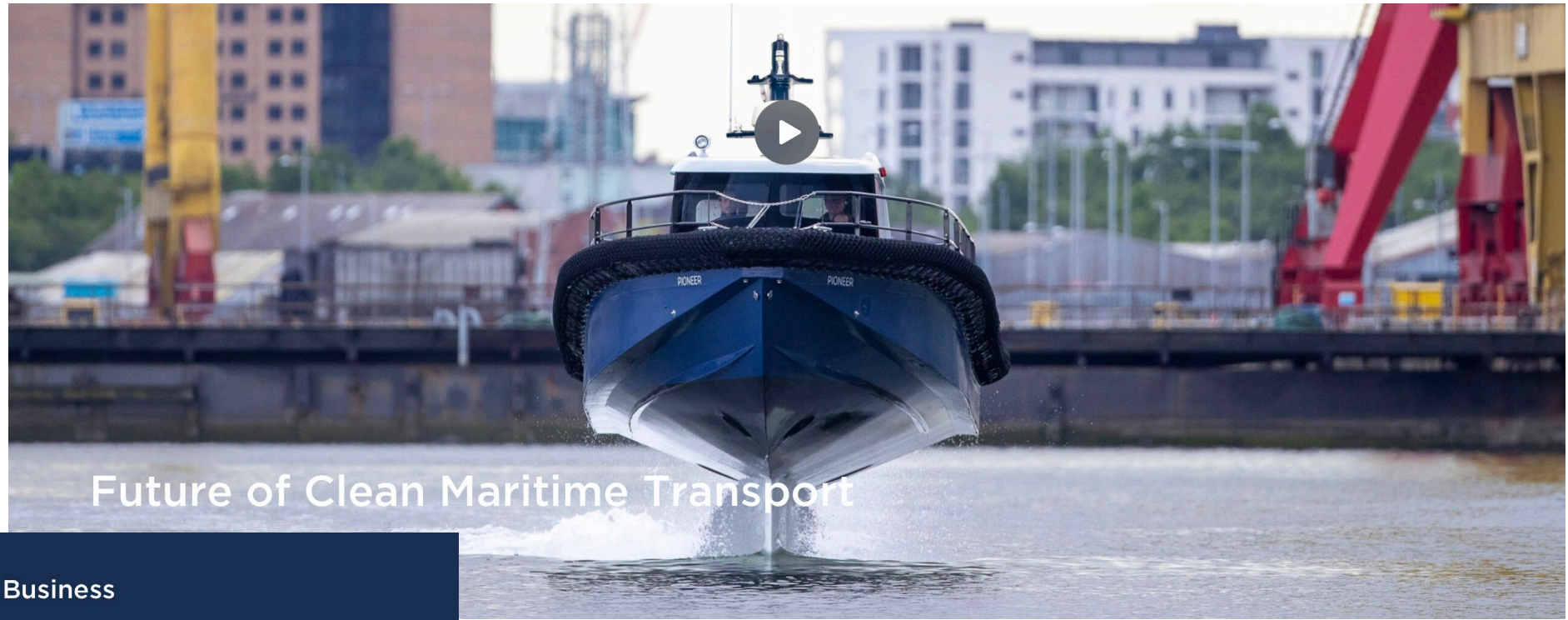
CC

↑

Hydrofoils



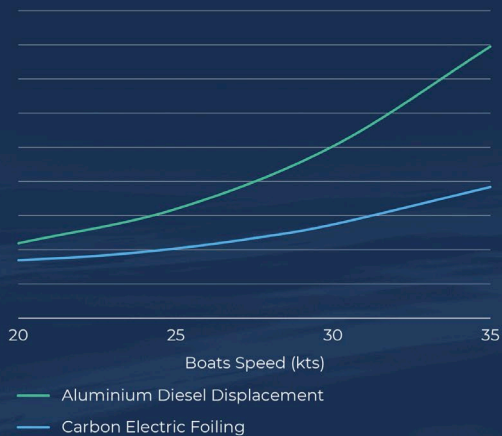
Artemis



Future of Clean Maritime Transport

Better for Business

Power Demand at Different Speeds



Efficiency

The Artemis eFoiler® works at an unmatched efficiency of more than twice as efficient as traditional Diesel engines.

The design of the eFoiler® provides significant range at high-speed, whilst also reducing operational costs through substantial fuel savings.

Vessels developed with eFoiler® propulsion will operate with up to 90% lower fuel costs compared with traditional ferries, with the capability of carrying up to 150 passengers.

up to 90% lower fuel costs

Bering Marine



The foils carry between 40% to 75% of the vessel's displacement.

Final conclusions

- Innovative industry
- Variation in boat and platform sizes and shapes
- Electrify shore-based operations
- Take advantage of commercially available portable power stations to electrify on water operations
- Gather data to accurately identify electric outboard and equipment needs
- Get net zero solutions on the water to gain knowledge
- Look at shore side grid needs to open infrastructure discussion with provincial government and utility
- Training will be important for safety and uptime