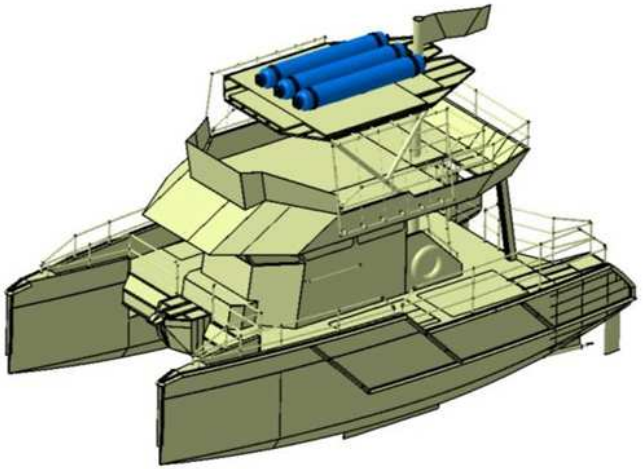
Green Ships

September 27, 2022

Our range of green ships !



CRC Project

Prototype of an oyster barge with electric propulsion H2 ready

Customer :

- Regional shellfish farming committee of South Brittany (CRC)

Objectives:

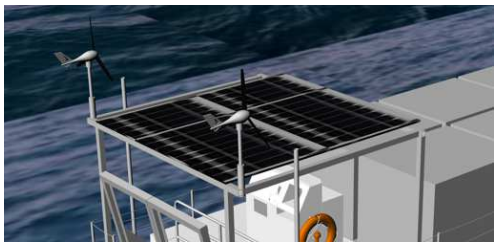
- To enhance sustainable development within the sector
- Decarbonize the oyster farming activity
- Preserve the environment
- Demonstrate the feasibility and sensitize the actors

CRC Project

Prototype of an oyster barge with electric propulsion

Production of renewable energy

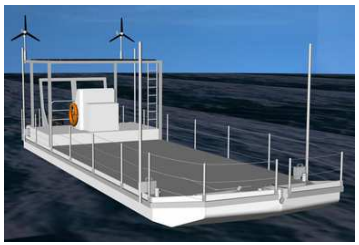
- Solar panels
- Wind turbines
- Battery storage



Performance

Speed
- Maximum = +15 knots
- Exploitation = 7 knots

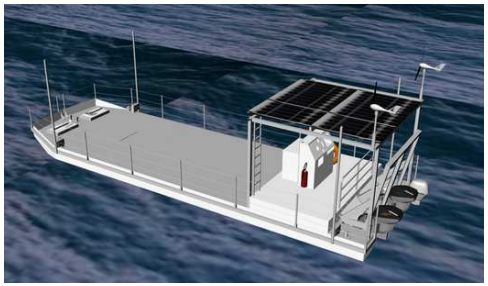
Autonomy
3h or more in operation mode



Dimensions

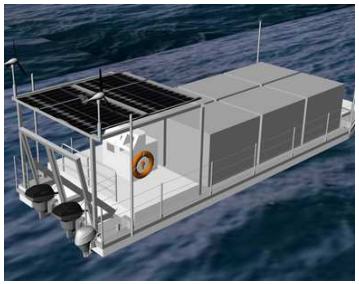
- Length : 11 m 90
- Width : 3 m 70
- Displacement : 12,6 t*

**(Full load)*



Delivery

- Fall 2022



CRC Project

Prototype of an oyster barge with electric propulsion

An ambitious and innovative project:

- To provide a prototype of electric oyster barge
- Develop the shipbuilding industry for electric oyster barges
- To reduce the carbon footprint of the profession
- Test the latest technological innovations

A pride for the Chantier Bretagne Sud:

- To promote Brittany's innovation
- Develop our local and European partnerships

Renewable Energies at the Service of Oyster Farms

(in French E.R.S.E.O)

Mobility and electricity solutions from decarbonated and renewable sources for the needs of oyster farmers in the Etel ria

Renewable

Local

Profitable

Syndicat Ostréicole Ria d'Etel

L'EUROPE S'ENGAGE EN BRETAGNE AVEC LE FEAMP

Pays d'Auray GRAND LARGE

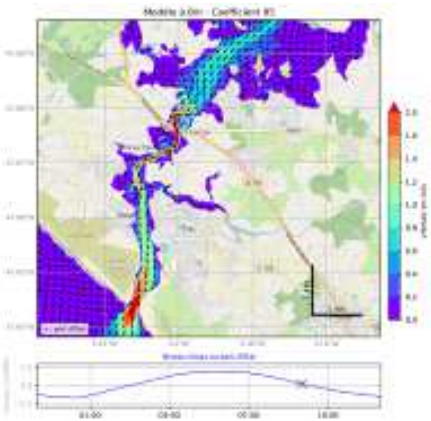
ERSEO Project

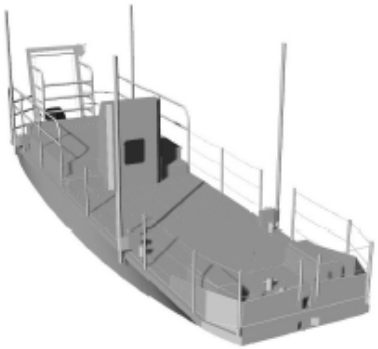
3 phases spread over a period of 1 year

Phase 1:
Definition of the energy needs of all the oyster farms and of the solar, wind and tidal potential available near the farms.

Phase 2:
Realization of a renewable energies production demonstrator from the tidal and solar resources at the CBS shipyard.

Phase 3:
Manufacturing of an oyster barge with electric propulsion recharged by renewable energies for validation by the oyster farmers of the ria.





LPMA Project

Maritime High School Innovative Ship

An ambitious and innovative project:

- To provide a training vessel for the students of the local Maritime High School
- To improve the carbon footprint of the profession
- To test the latest technological innovations

LPMA Project

Issues at stake:

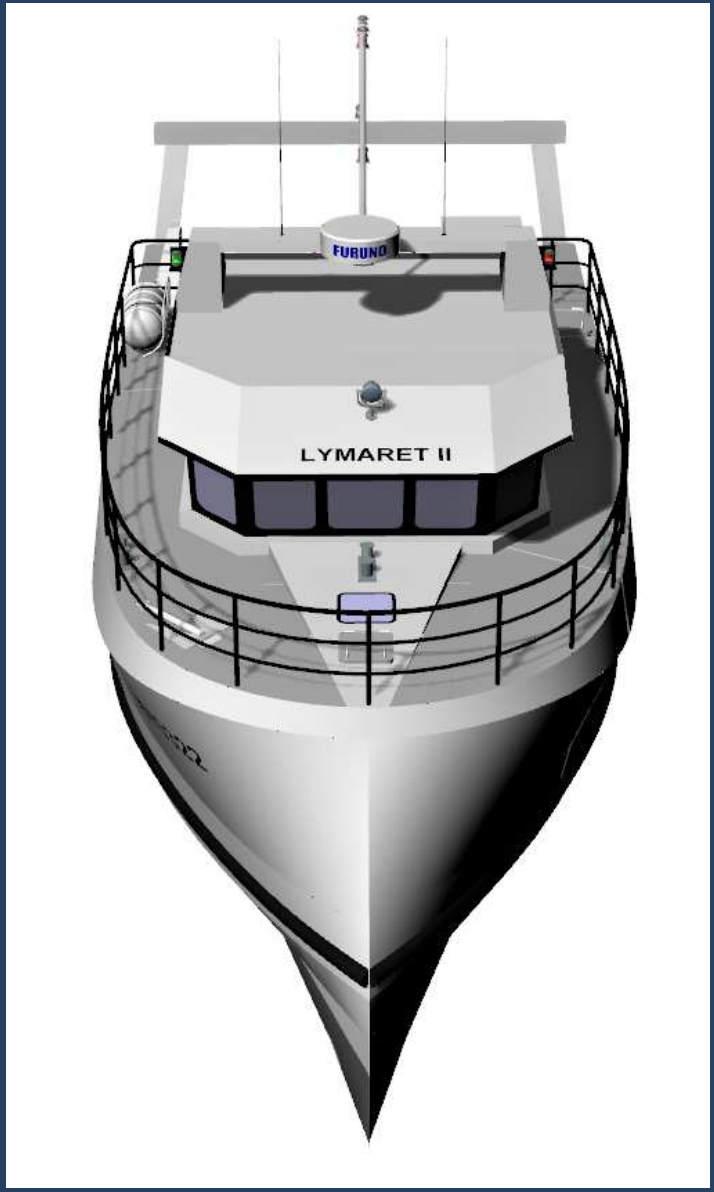
- A unit of 11.98 m of length for 5m of width
- Parallel hybrid propulsion, thermal and electric
- Three hours of electric autonomy at 5 knots for maneuvers in the Ria
- Solar panels

- Nine months of work
- Involvement of high school students on the construction site (welding for example).
- Integration of innovative systems

MINISTÈRE DE LA MER
Liberté
Égalité
Fraternité

LYCÉE PROFESSIONNEL MARITIME ET AQUACOLE
ÉTEL

FRANCE RELANCE



ARCHINAUTE Project

Rotating sail electrical catamaran

- The objective is the construction of a catamaran of 11.4 m of length and 6 m width
- In aluminium and adapted to the transport of passenger Conceived with an electric bi-motor
- Characterized by its energy independence thanks to a wind turbine which will supply it with electric energy.

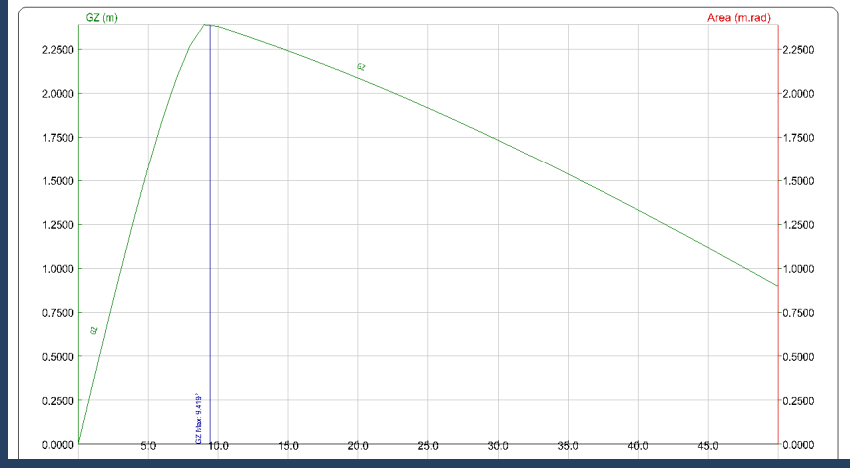
With a hybrid design between the sailboat "pushed by the wind" and subject to the whims of the latter and the motorboat sailing thanks to the energy tanks it has filled on land, the Archinaute opens a third way of navigation offering the service of a mechanically propelled vessel while equaling the cleanliness, autonomy and free energy of a sailboat.

Transversal Stability @ Equilibrium:

Heel°	80.000	GMT	-2.5703	GMTC	-2.5703	FSMT	0.0000
HAP	-13.4652	GML	2.1669	GMLC	2.1669	FSML	0.0000
HFP	-13.6915	WPA	10.0952	BMT	0.2653	OGT	2.6349
HMP	-13.5783	WSA	17.1892	BML	18.0412	OGL	2.6349
Trim	0.2263			TOA	0.5414	OG	2.6349

Weight Data @ 0° (KMt0 = 20.7052):

	Total:	Solid:	Liquid:
Wght:	3.9580	3.9580	0.0000
LCG:	4.8000	4.8000	0.0000
TCG:	0.0000	0.0000	0.0000
VCG:	1.6000	1.6000	0.0000



Thanks !

ADDRESS

40 Rue des Chantiers, 56550 Belz France

PHONE

+33 6 64 05 07 25

E-MAIL

y.bian@cbs.bzh