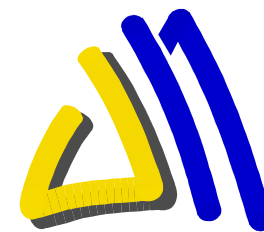




NANTES May 19th, 2015

BLUE GROWTH in EUROPE
Fishing Vessel of the future



Bureau
MAURIC

ARPEGE

A 25 m Diesel Electric Prototype



© Bureau MAURIC - 2015

- ❑ Under construction at Socarenam Shipyard (Boulogne/mer)



- ❑ Designed , built and evaluated as part of the French Research Program “Navire du Futur” (Ship of the Future)

- ❑ The Project is partially subsidized by the French Agency ADEME

- ❑ The Project Budget :

Overall cost : 8,2 M€

- Subvention : 2 M€

- Owner: 3 M€

- Consortium : 3,2 M€



- ❑ The vessel is planned to be delivered this summer 2015

- ❑ Then she will be tested at sea for six month



❑ A fishing vessel equipped for:

- Bottom trawling,
- Pelagic trawling
- Fly shooting

❑ The aim of the concept:

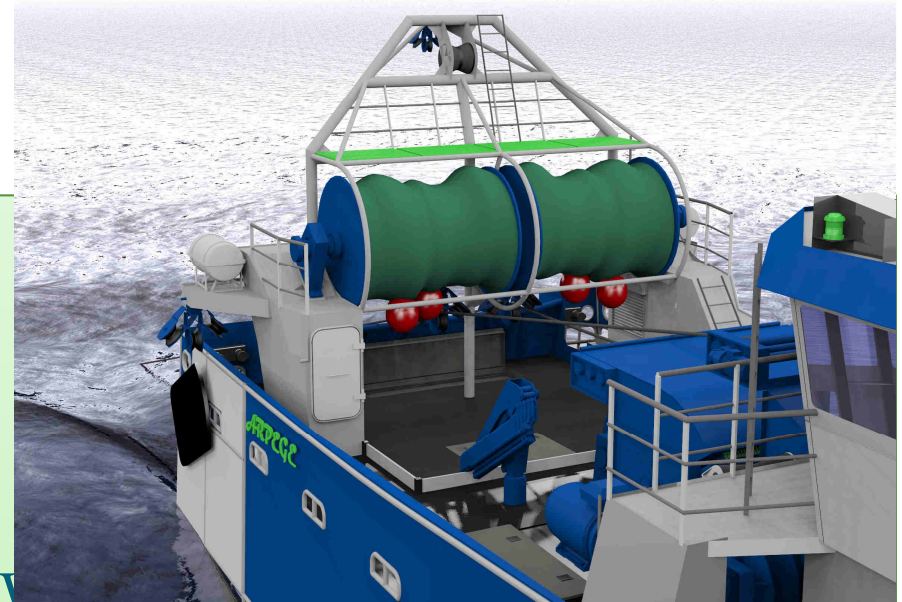
- A reference for the renewal of the ageing French and European fishing fleet
- A new product line based on ARPEGE Prototype
- Safer : Freeboard higher, full stability criteria
- Low consumption: Fuel consumption reduced by 25 %
- More profitable / Fish processing aboard
- Comfortable at sea / Separation between working and living area



□ The Main Characteristics

- Hull length: 25 m
- Breadth : 8,50 m
- Displacement : 300 t
- Propulsion Power : 2x 220kW
- Genset: 2 x430 Kwe
- Crew: 8 persons
- Hold Capacity : 80 m³

□ Why Diesel Electric ? : A controllable network safe and efficient for energy saving

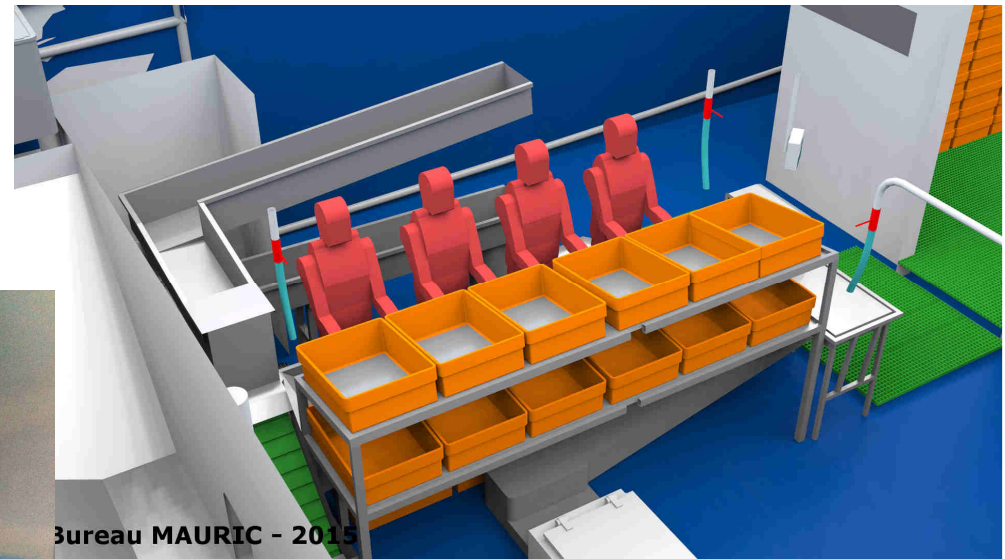


ARPEGE

A 25 m Diesel Electric Prototype

Ergonomy strategy

3D Virtual Reality



Under construction



Projets FILHyPyNE (FILIÈRE Hydrogène pour la Pêche polyvalente)



Projets FILHyPyNE (FILièrE Hydrogène pour la Pêche polyvalentE)

A dedicated approach on global energy system for fishing:
Wind propeller !!!!

The concept of captive fleet for fishing

Production électricité - EMR



Électrolyser : Hydrogen production



Hydrogen storage

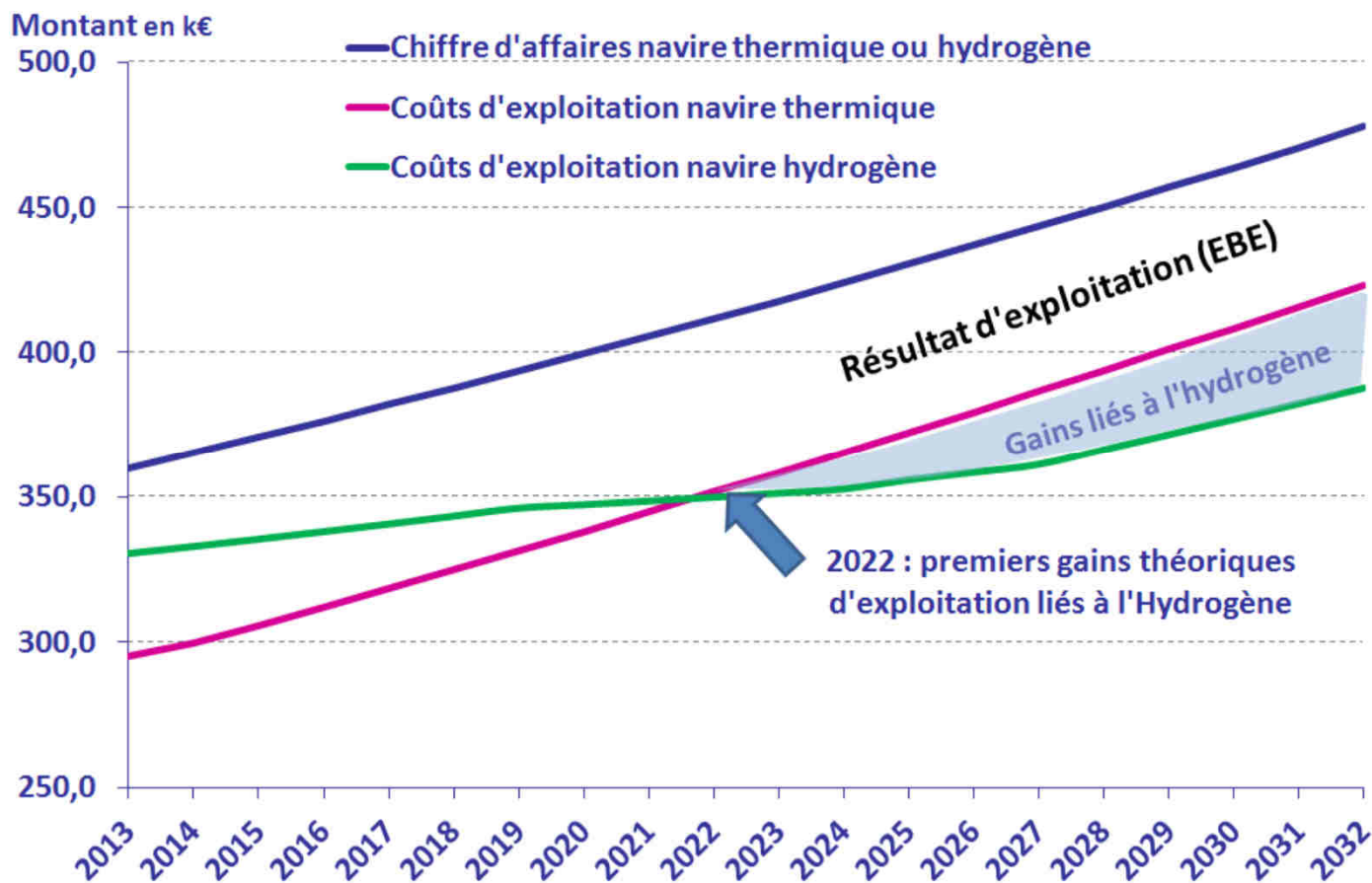


Hydroge Distribution



FILHyPyNE

FILHyPyNE Project objectives



Since 2022, the propulsion hydrogen - electric become interesting from an economic point of view

FILHyPyNE Project objectives

A 12 m long fishing vessel dedicated for net or line fishing

Validate the hydrogen propulsion architecture in real coastal fishing activity

- Technical performance,
- Economical efficiency
- Environmental impact
- Societal integration

