JOINING FORCES for the ENERGY TRANSITION in EU FISHERIES and AQUACULTURE

### **PILOTHY PROJECT**

28th November 2023

Integration of a hydrogen fuel cell in refit on a fishing vessel







## **Seafood in Brittany**





# Strategy of the Brittany region for resilience in the seafood sector (post-Covid, energy crisis,...)

- $\checkmark~$  Decarbonize the fishing fleet
- ✓ Improve energy efficiency in harbour and hall auction (ice process, thermal insulation, seawater supply,...)
- ✓ Support the processing sector (energy saving/energy production)
- ✓ Promote label with regional professionnal structures
- ✓ Ensure best practices in public tenders





### DECARBONISATION OF THE FIRST CHAIN LINK

- Main issues to tackle:
  - Regulatories: EMFAF, CFP, State Aid
  - Financials

#### Article 18 EMFAF d)

for other vessels up to 24 metres in overall length, the new or modernised engine does not have more power in kW than that of the current engine and emits at least 20 % less CO2 compared to the current engine.

#### Article 19

Increase in the gross tonnage of a fishing vessel to improve safety, working conditions or energy efficiency ...which does not have a power exceeding the fishing vessel's previously certified engine power





#### **DECARBONISATION OF THE FIRST CHAIN LINK**

Call for expression of interest "deployment of hydrogen within the fishing fleet" Call for projects "energy transitions in the Breton fishing and aquaculture sectors"





#### **DECARBONISATION OF THE FIRST CHAIN LINK**

Call for expression of interest "deployment of hydrogen within the fishing fleet"



- ✓ Breaking the barriers through innovation for H2 fishing fleet deployment
- ✓ Energy savings (propulsion systems, structure vessel, fishing gear)



- ✓ Overall call for projects budget: €1.5 million
- ✓ Regional aid up to €375k per project €87k
   for Pilothy



- ✓ Two-year project
- ✓ Deployment of technology (market entry) within three years of project completion



- ✓ Consortium with majority Breton operators
- ✓ Sharing experiences in networks (EU & International)



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## Fishing Vessel - ANITA CONTI

- Trawler 17,30m built in Brittany in 1980
- Actual owner : SAS STARTIJENN, Julien LE BRUN
- Coastal fleet (weekly at sea)













# **PILOTHY PROJECT**

# Selected projet:

Propulsion engine: diesel Fishing gears & onboard needs: Hydrogen with Fuel cell, H2 tanks (9 tanks of 10kg H2 – 350 har)



Région BRETAGNE

10 -15% of energy by FC
90kg of H2 by fishing tide
500L of diesel saved by fishing tide
75 t CO2eq saved per year

+15 -20% of GT

-30% of vessel hold

## Thank you !

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