

PRODUCTION OF PREDICTABLE RENEWABLE ENERGY



WAVENRG SAS

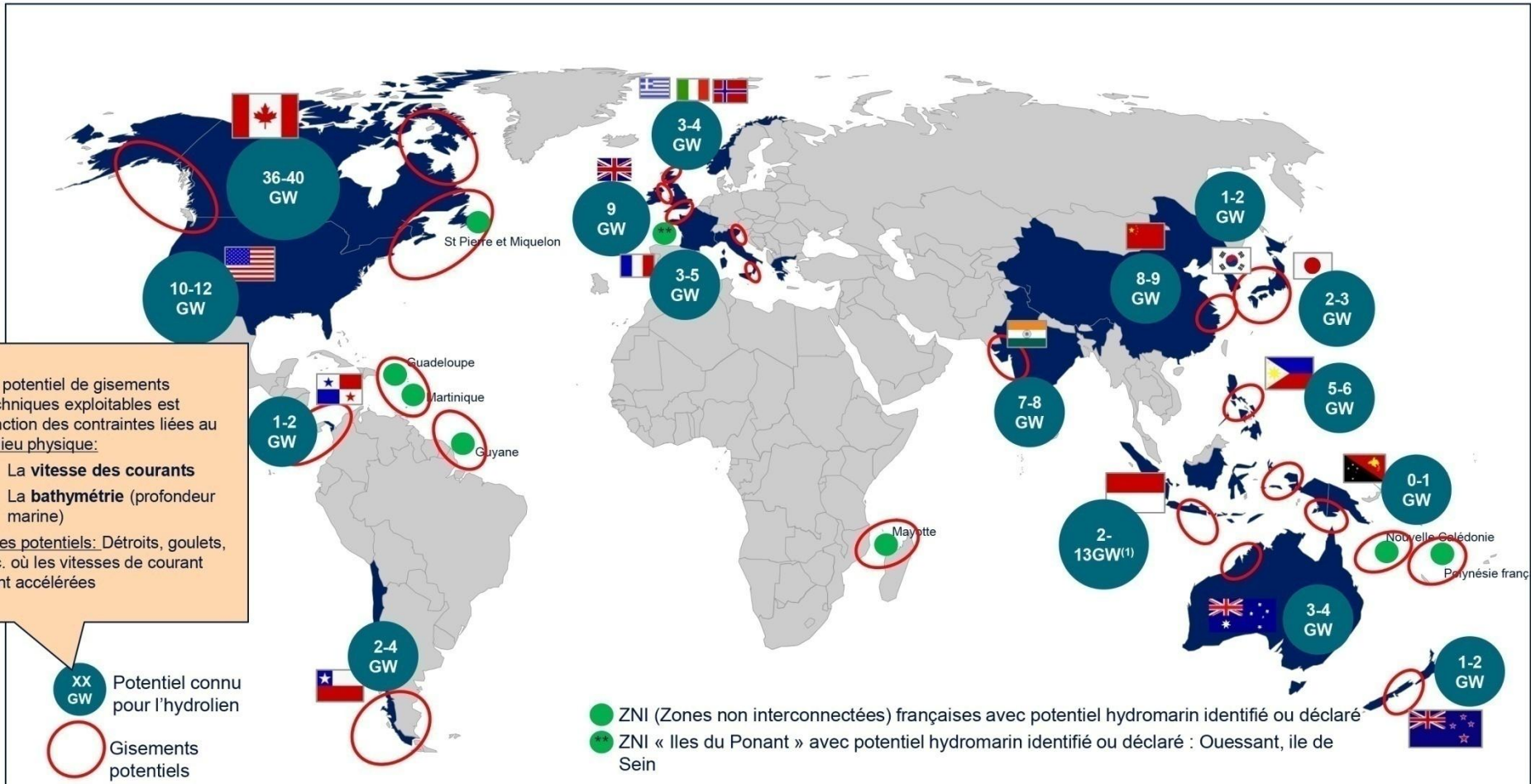
TIDAL – WAVE ENERGY CONVERTERS

Total Addressable Market of tidal energy: **100 - 120 GW = € 300 billion**

Our Serviceable Addressable Market is: Europe, Canada – **40 GW**

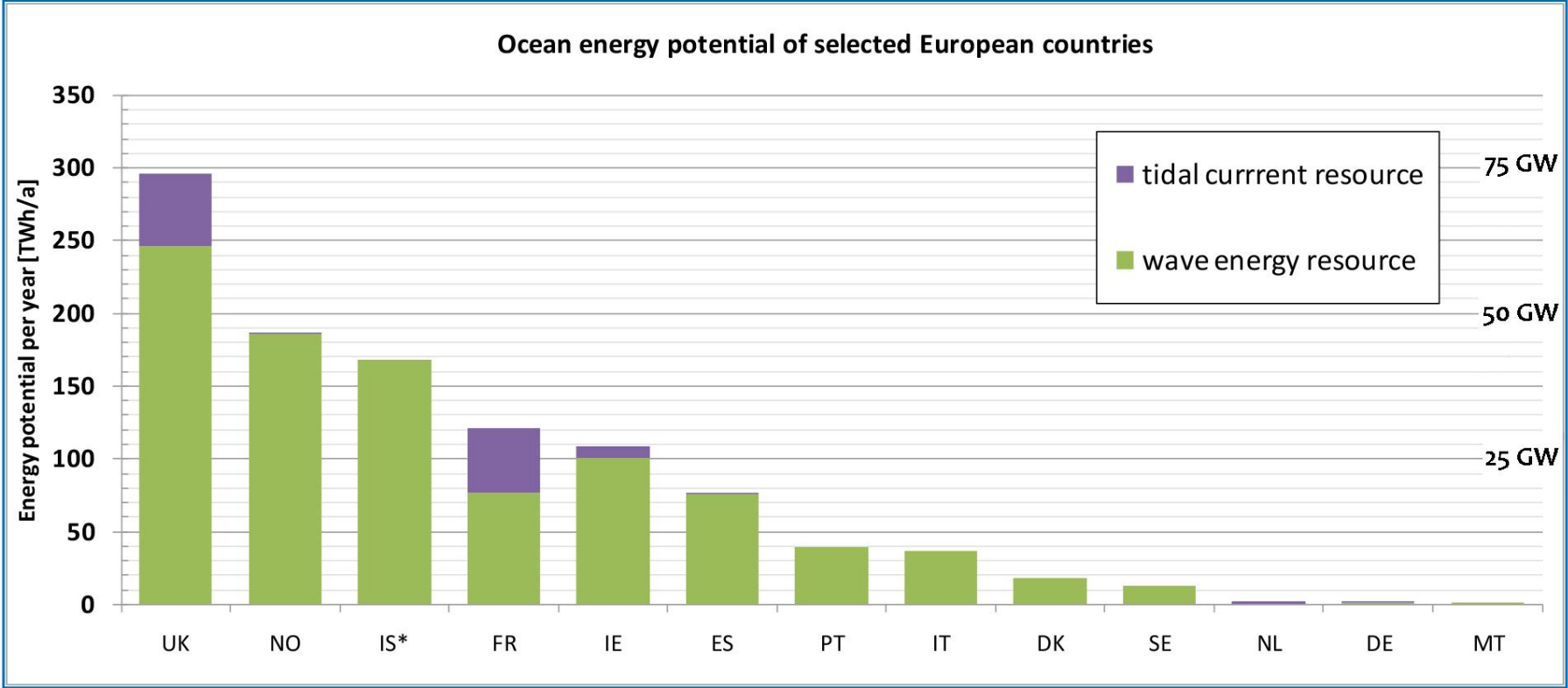
Our Serviceable Obtainable Market is: **1.285 GW (1% TAM)**

Canada – 561 MW France – 326 MW Scotland – 398 MW



Total Addressable marine energy Market in Europe

Ocean energy potential of selected European countries



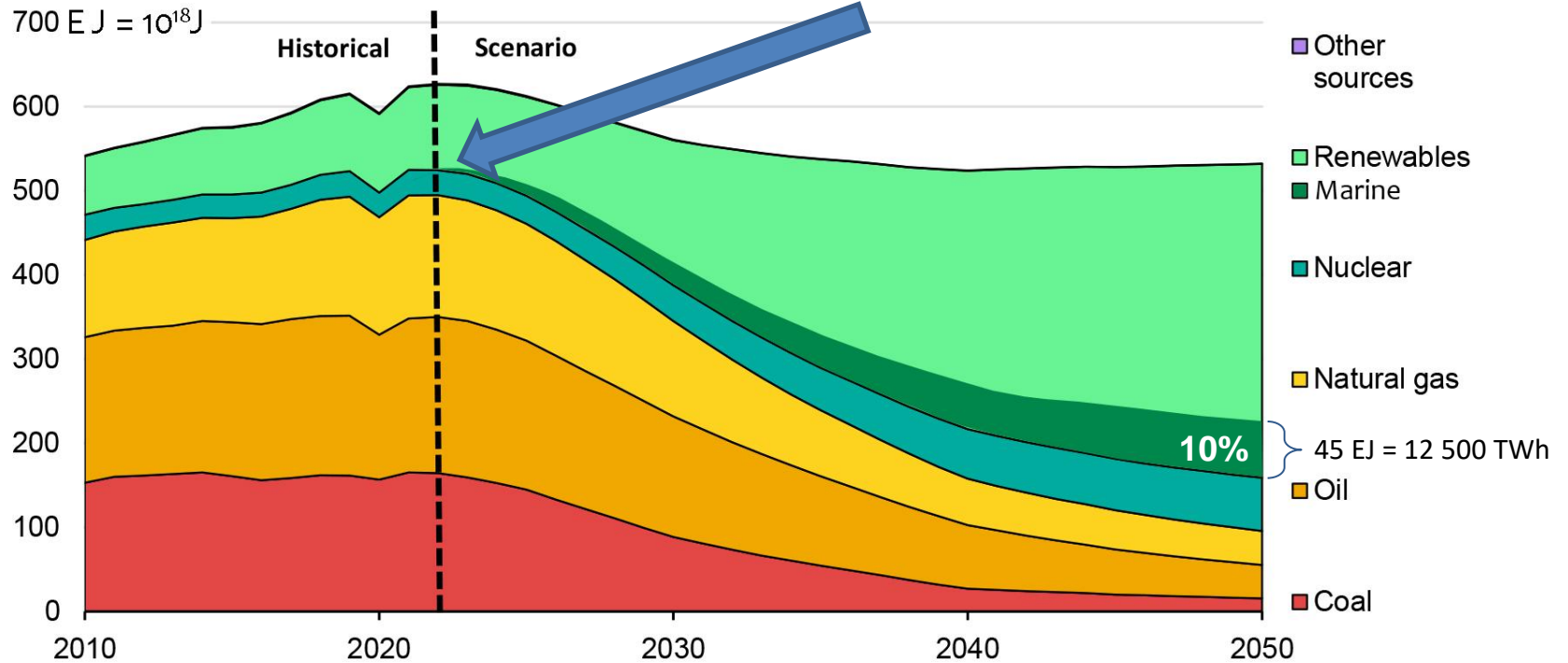
Sources: European Commission – Study on Lessons for Ocean Energy Development

GLOBAL ENERGY PRODUCTION NEEDS IN THE NET ZERO EMISSION SCENARIO

THE USE OF **100% TAM** OF TIDAL MARINE ENERGY
WILL ALLOW US
TO COVER **10%** OF RENEWABLE ENERGY DEMAND

But this potential of marine energy is not yet exploited despite 20 years of development

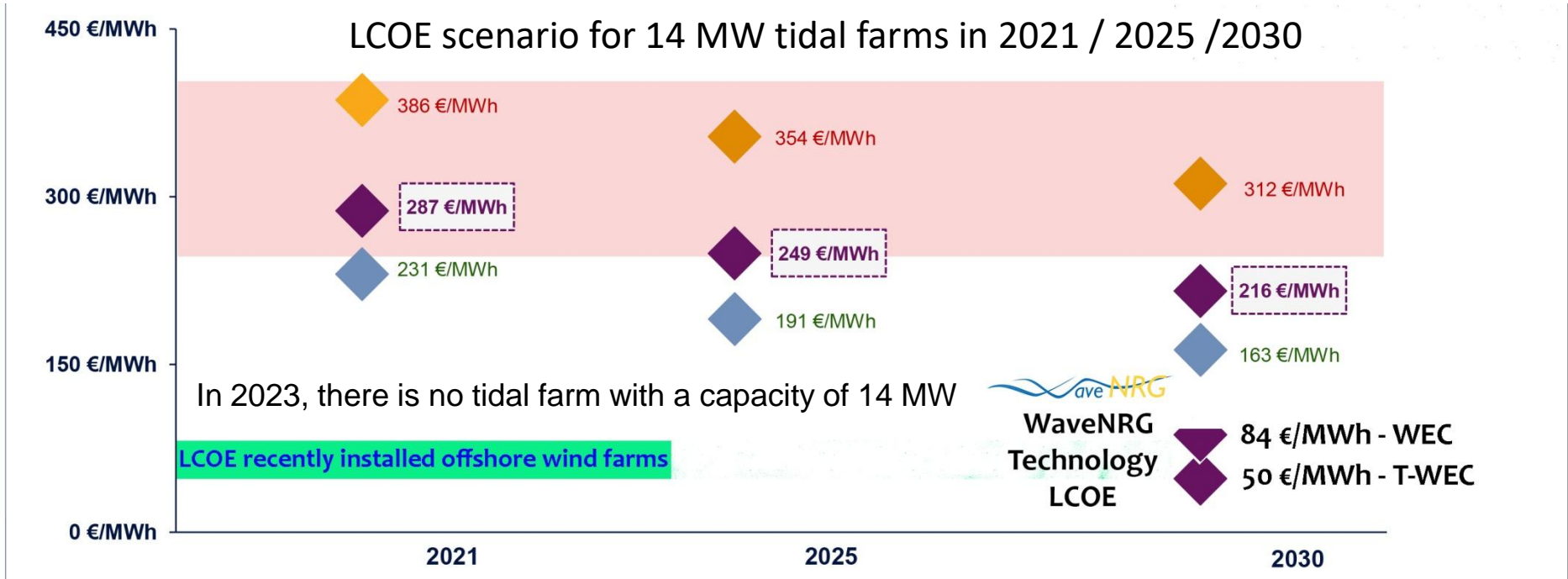
WHY ???!



Sources: IEA – Energy Technology Perspectives 2023

NZE – Net Zero Emission by 2050 - is a scenario that sets out a pathway to stabilise global average temperatures at 1.5° C

PROBLEM - LCOE EXISTING TIDAL TURBINE TECHNOLOGIES ARE NOT COMPETITIVE



- Existing marine tidal technologies
- “Conservative” scenario
- “Optimistic” scenario
- Diesel generators isolated areas
- “Central” scenario

Sources: Study carried out by the Corporate Value Associates (CVA) for ADEME FRANCE 2018

16 entretiens réalisés

7 entretiens réalisés

WAVENRG

NEW TECHNOLOGICAL CONFIGURATION

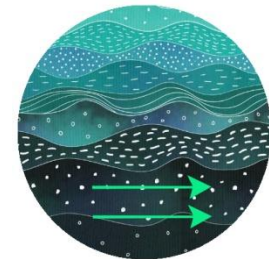
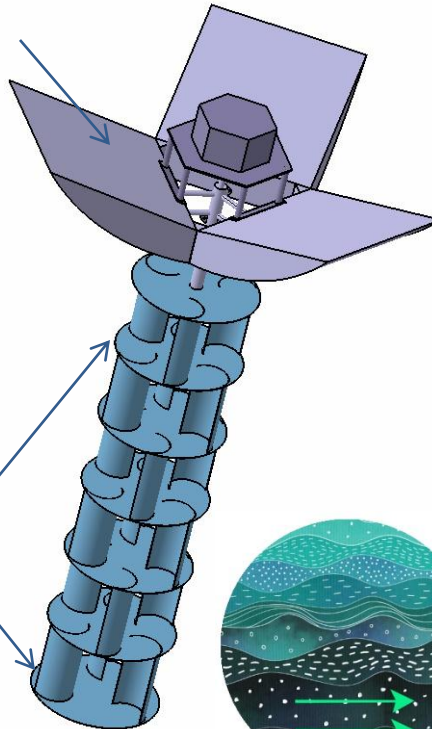
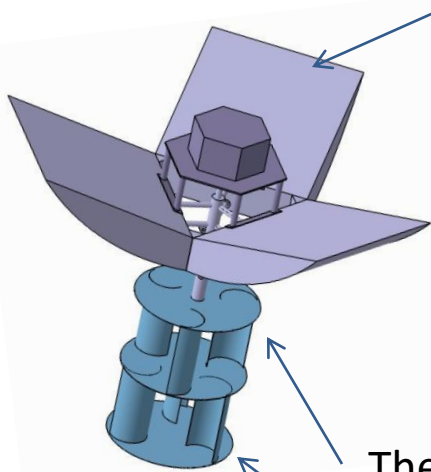
(WEC)
WAVE ENERGY
CONVERTER
250 – 400
kW

(T-WEC)
TIDAL – WAVE ENERGY
CONVERTER
800 – 1200
kW

NEW
TIDAL – WAVE
VERSION IN STUDY
3000 – 4000 *
kW

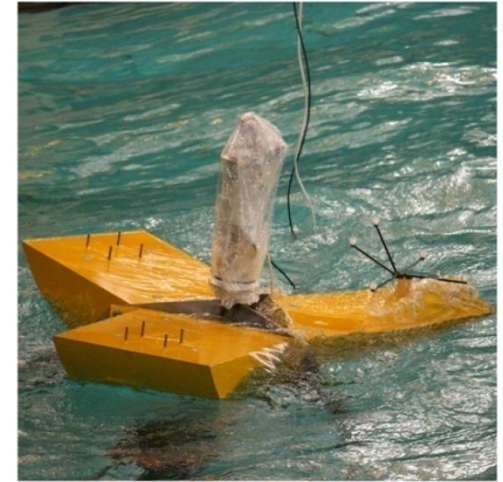
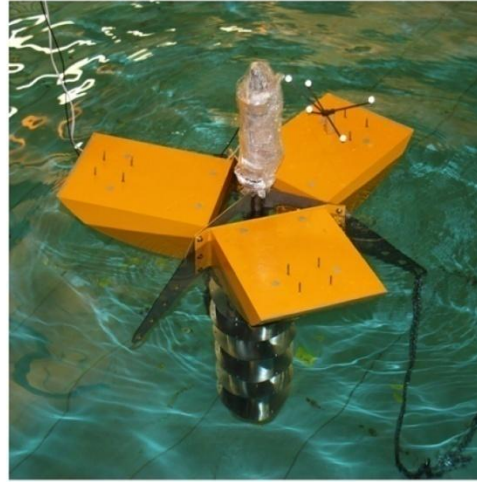
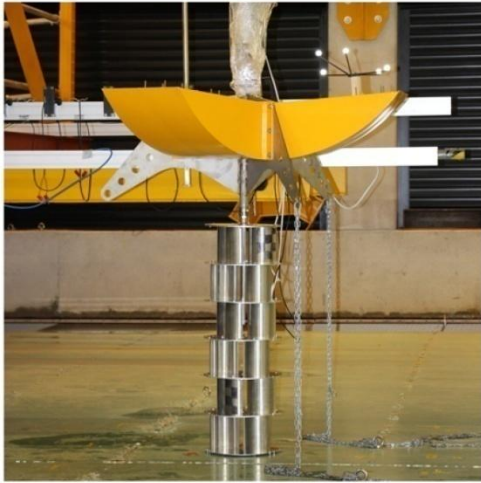
The same floats

The same elementary turbines

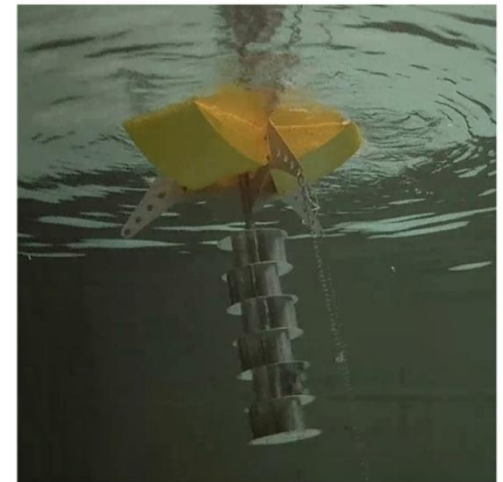
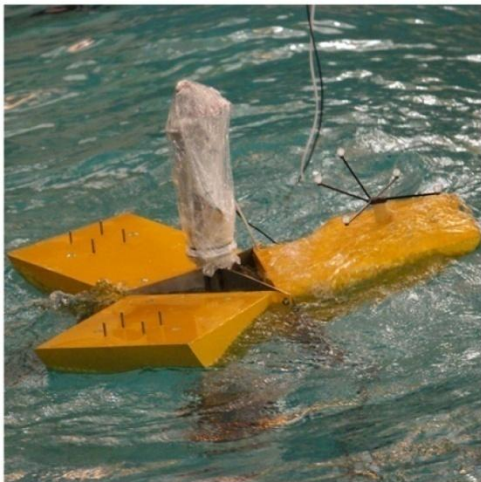


* 4000 kW = 4 MW

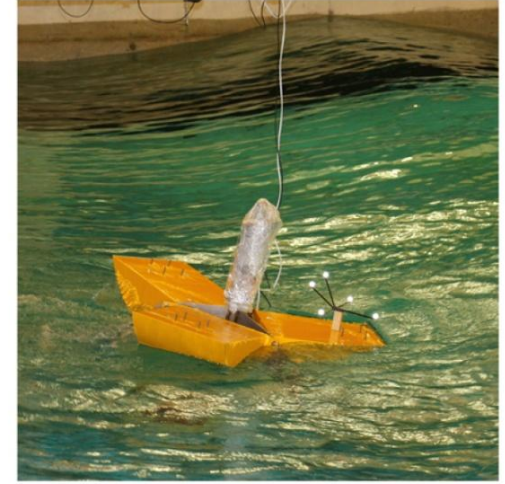
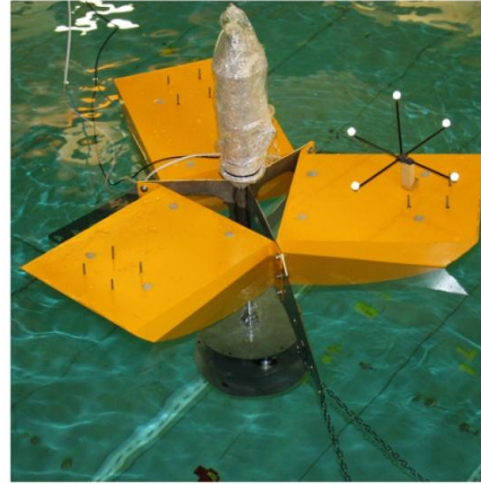
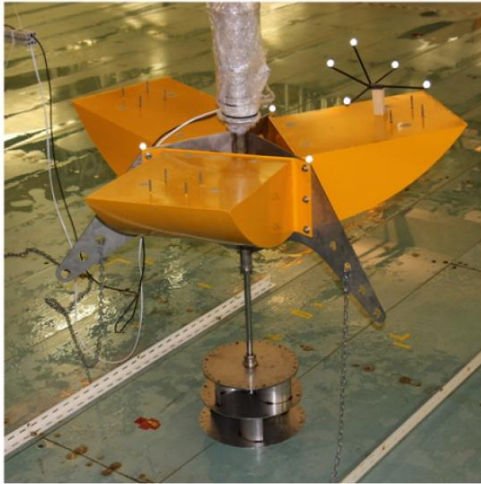
NEW TECHNOLOGICAL CONFIGURATION



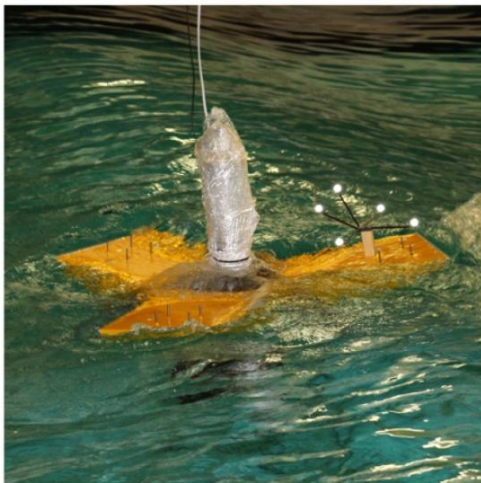
TIDAL – WAVE ENERGY CONVERTER



NEW TECHNOLOGICAL CONFIGURATION



WAVE ENERGY CONVERTER



OUR NEW TECHNOLOGICAL CONFIGURATION CAN COMPETE IN THE RENEWABLE ENERGY MARKET



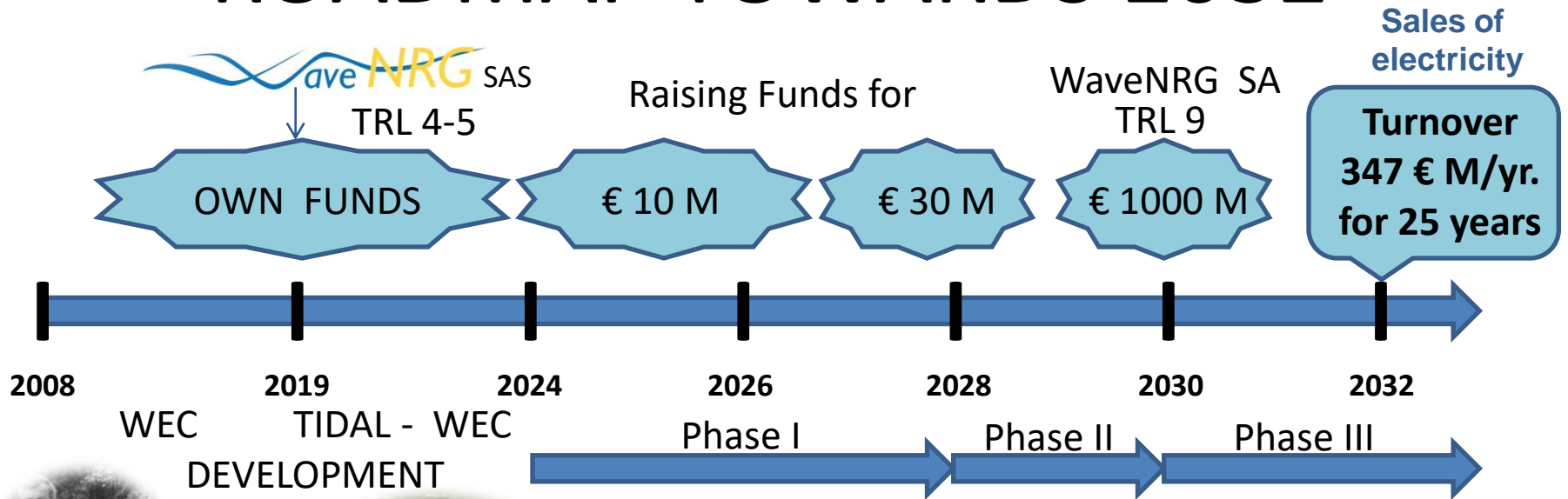
Easier installation at sea

Ability to work in deep waters

Steel turbine blades – no recycling problem

Example offshore wind farm : **Saint Nazaire**
Power of **480 MW** installed on an area of **78 km²**
COST = **€ 2 billion**
25 years of operation
CAPEX = **€ 4.16 M/MW**
ENERGY DENSITY = **6.15 MW/km²**.
(480 MW/78 km²)

ROADMAP TOWARDS 2032



Phase I – WAVENRG SAS

Pre - industrial demonstrator of 4 MW

Phase II – WAVENRG SAS

Pilot farms

Canada – 4 MW Bay of Fundy (T-WEC)

Scotland – 4 MW MeyGen (T-WEC)

France – 4 MW Raz Blanchard (T-WEC)

France – 400 kW Martinique (WEC)

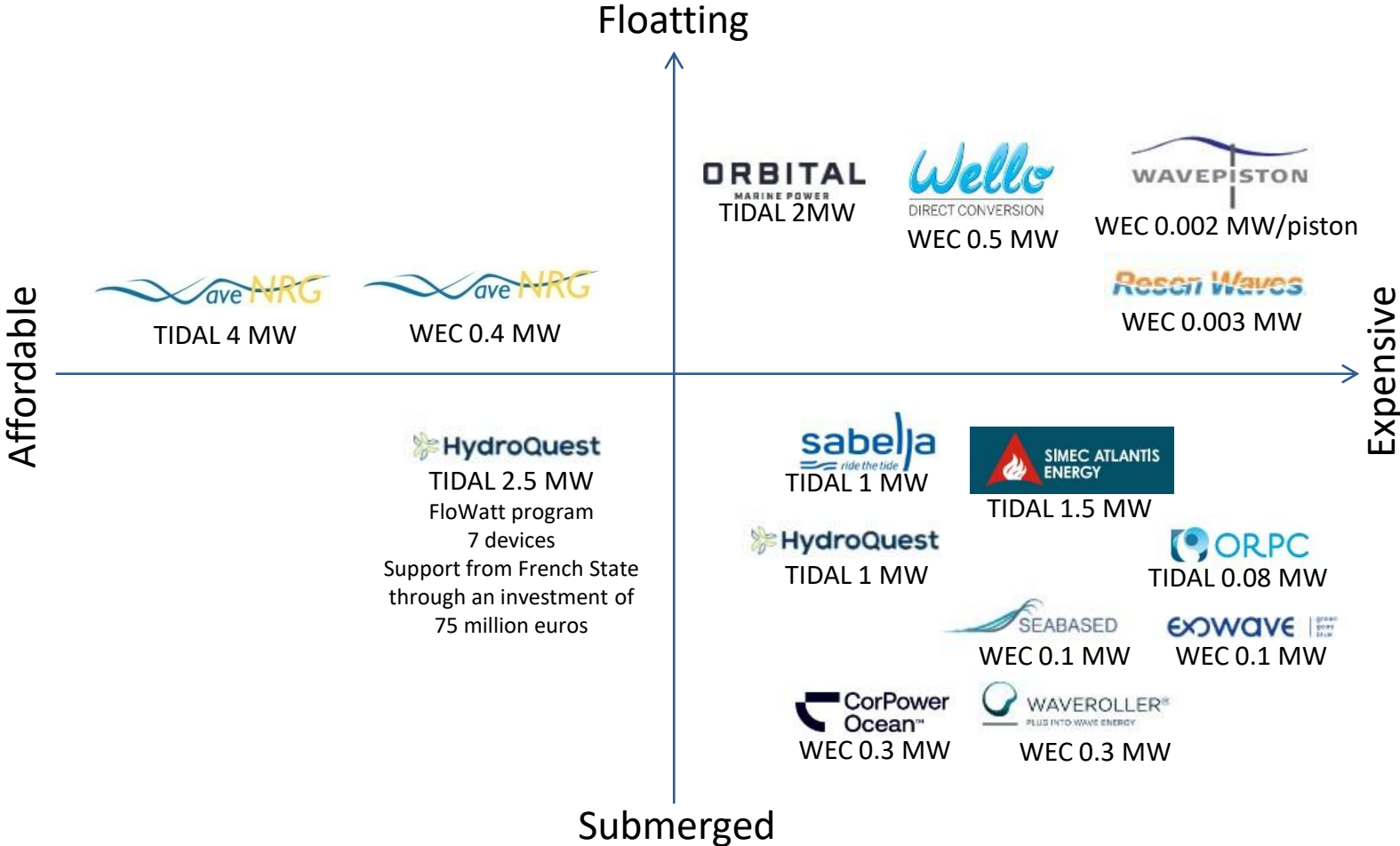
Phase III – WAVENRG SA

Commercial farms

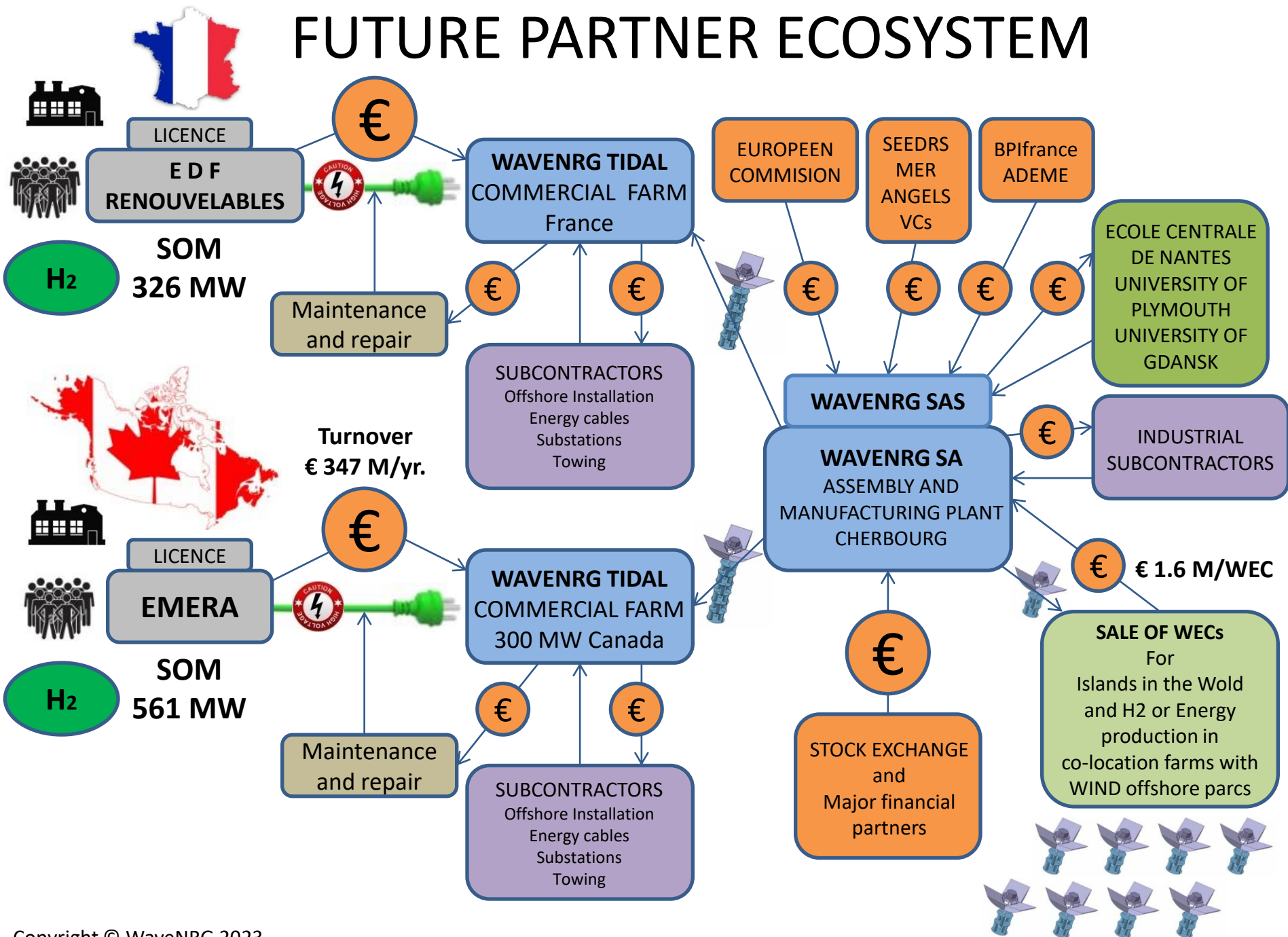
Canada – 300 MW Bay of Fundy (T-WEC)



COMPETITIVE LANDSCAPE

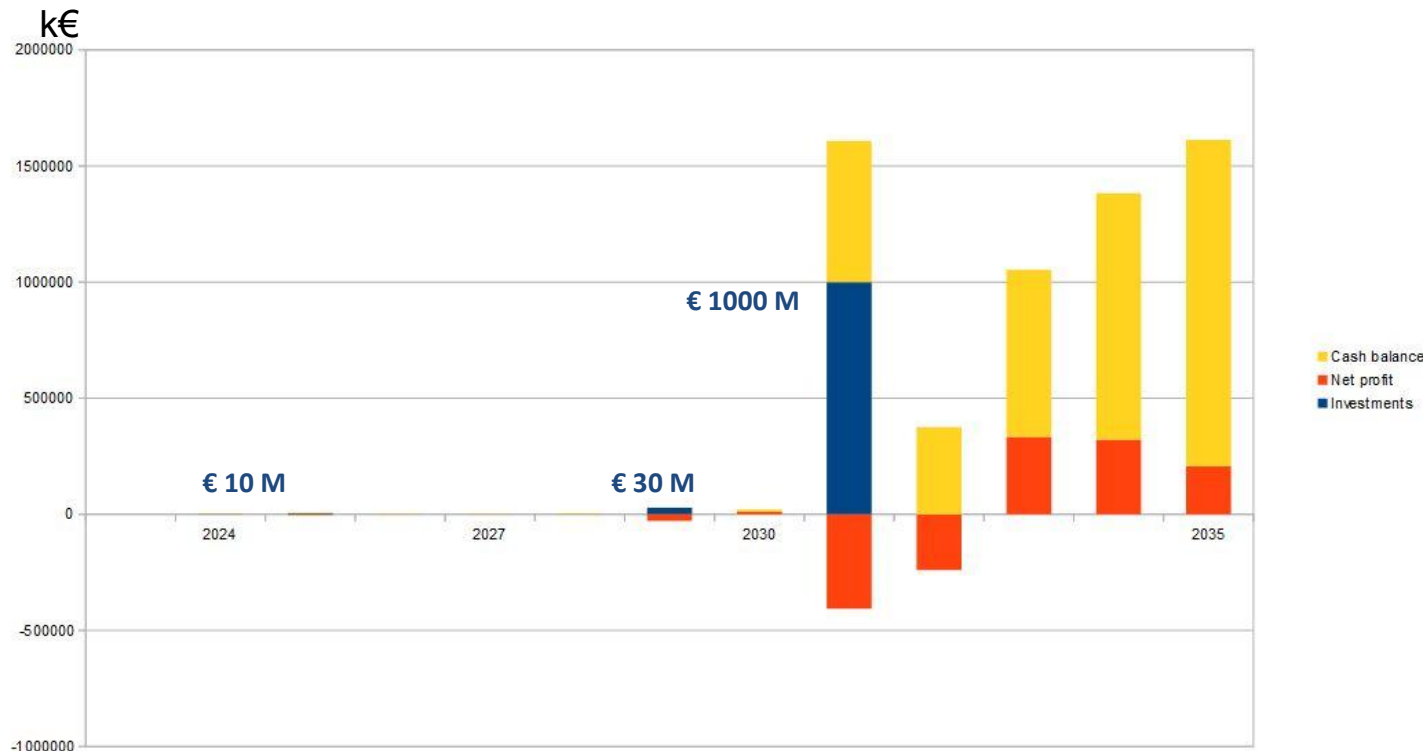


FUTURE PARTNER ECOSYSTEM



FINANCIAL PROJECTIONS

Our first commercial 300 MW tidal farm – CANADA - Bay of Fundy



From 2035, the **1.06 billion euros** of existing cash balance should be invested in the construction of new tidal farms. This will reduce taxes which, starting this year, will amount to more than €100 million per year. **25 years** of operation of this commercial farm will generate revenue of **8.3 billion euros**.

FUNDING REQUEST

If we raised – What would we do?

€ 10 M will enable us to complete Phase I:

Preparation of technical documentation to build a 1:1 scale pre - industrial demonstrator of 4 MW

**Obtaining subsidies from Horizon Europe
Dedicated Ocean Energy Calls**

Building a demonstrator for T-WEC version of 4 MW

Performance and reliability tests in EMEC Scotland

Find clients and investors to build the first pilot farms

Thank you !

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