









MARINE ENERGIES IN BRITTANY : IT ALL DEPENDS ON US !
to develop marine energies in Brittany tackling the energy challenge and contribute to France commitments on renewable energies while promoting local development ;
to define an industrial conversion strategy through promoting and supporting a new industrial activity in regard to the development of a maritime economy, source of wealth and employments;
to create a research and expertise consortium of international rank ;















### NATIONAL PREVISIONS (2020)

4 000 MW offshore wind farms= about 400 km<sup>2</sup> (10 MW/km<sup>2</sup>)

= 16 fields of 50 wind mills (fields of 25 km<sup>2</sup>)

= 25 fields of 30 wind mills (fields of 16 km<sup>2</sup>)

= 50 fields of 15 wind mills (fields of 8 km<sup>2</sup>)

#### **BRITTANY REGION PREVISIONS (2020)**

1 000 MW offshore wind farms= about 100 km<sup>2</sup>

- = 4 fields of 50 wind mills (fields of 25 km<sup>2</sup>)
- = 7 fields of 30 wind mills (fields of  $16 \text{ km}^2$ )

= 14 fields of 15 wind mills (fields of 8 km<sup>2</sup>)

 $\rightarrow$  0,5% of Brittany territorial waters





# Synergies between fishers and marine energies production

•Fishers' involvement in areas identification with regard to their marine environment knowledge ;

•Projects optimisation with regard to their impact on fishery resources – coupling with fisheries enhancement projects ;

•Fishers' involvement in the installment and maintenance of marine farm fields with regard to their abilities.











%	shipping with traffic separation military use military use sand & gravel extr. dredging & dumping wind parks constal defense nature conservation coastal recreation
	shipping with traffic separation military use sand & gravel extr. dredging & dumping wind parks cables & pipelines
s coastal defense nature conservation coastal recreation	shipping which traffic separation military use sand & gravel extr.
wind parks cables & pipelines coastal defense nature conservation coastal recreation	shipping which traffic separation military use
sand & gravel extr. dredging & dumping wind parks cables & pipelines coastal defense nature conservation coastal recreation	shipping which traffic separation
military use sand & gravel extr. dredging & dumping wind parks cables & pipelines coastal defense nature conservation coastal recreation	

















## Overview of resource and use issues

The Belgian sector of the North Sea is very heavily used by Belgium, its neighbours and the international community
Major longstanding uses are shipping, fishing and sand and gravel extraction
Disposal of dredged spoil and demands for deeper channels to service competing ports are substantial issues
The area is fished by Belgian and other fishers.
Information on the relative importance of areas for particular fisheries is not available. The real economic significance of fisheries in the local inshore areas (territorial waters) is not known neither is the economic and resource demand significance of the same area for recreaional fishing.

## Overview of resource and use issues

- •The 68km coast is a largely developed area of substantial significance for **recreation and tourism**.
- •A new and potentially major use flowing from national energy policy is the establishment of **windfarms**.
- •The Belgian North Sea is part of the **much larger system** of the southern North Sea/Northern English Channel. A coherent understanding of its biodiversity and of any ecological significance will involve working with neighbouring countries.



**Firth of Clyde Marine Spatial Plan** (Scottish Sustainable Marine Environment Initiative)

« Marine Spatial Planning is a tool that enables the delivery of ICZM »

www.clydeforum.org/SSMEI