

EMBRC & THE BLUE BIOECONOMY

EMBRC AIMS TO SUSTAINABLY DEVELOP THE BLUE BIOECONOMY BY ACCELERATING KNOWLEDGE TRANSFER, TECHNOLOGY AND INNOVATION IN 3 EMERGING INDUSTRY SECTORS.

The Blue Bioeconomy incorporates any economic activity associated with the use of renewable aquatic biological resources such as fish, algae, or micro-organisms to make novel goods and services.

EU MARINE LIVING RESOURCES SECTOR (2021)*

€22.0 billion+ in GVA**

543 000+ people employed
+1% compared to 2020

*As per 2021 data, the EU Blue Economy report, 2024
** GVA: Gross Value Added (measures the value of goods and services produced in a sector)

MARINE AQUACULTURE

consists of farming aquatic organisms (e.g fish, molluscs, crustaceans or algae) in the sea, and is one of the world's fastest growing food sectors.*

*Source: European Commission

MARKET SIZE

1.2 million t
of aquaculture products*

Only **38%** of seafood consumed in the EU relies on the national production**

*As per the EU Blue Economy, 2024
**As per the EU aquaculture: State of play, June 2024

EMBRC CONTRIBUTIONS

70+ EMBRC services available

150-250 access requests for EMBRC services/year



MARINE BIOTECHNOLOGY

is the application of science and technology to living marine organisms or parts of them to make products in agriculture, medical, pharmaceutical and food and feed industries.*

*Source: European Commission

MARKET SIZE

€868 million in GVA*

3000+ people employed**

* As per 2021 data, the EU Blue Economy report, 2024
** As per 2023 data, the EU Blue Economy report, 2024

EMBRC CONTRIBUTIONS

150+ EMBRC services available

30-80 access requests, for EMBRC services/year



MARINE OBSERVATION

supports emerging sectors such as marine renewable energy, environmental monitoring and resources management through advanced technologies and methods (data management platforms, advanced informatics and marine life sensing tools, marine robotics, and AI)*.

*Source: The Ocean Economy in 2030 (2016)

MARKET CHALLENGES

Offshore renewable energy increased by **18%****

34% of fish stocks are **overfished***

*IPBES
**From 2020 to 2021, Mordor Intelligence

EMBRC CONTRIBUTIONS

30+ EMBRC services available

10-25 access requests for EMBRC services received/year from offshore windfarms, fisheries and aquaculture stakeholders

17 EU marine sites involved in EMBRC's EMO BON genomics observatory

