THE EU BLUE ECONOMY
The EU 27 Blue Economy

**Established Sectors**

- **Gross operating surplus**: €68 billion (+14%)
- **Employment**: 4.5 million people (+1%)
- **GVA**: €176 billion (+15%)
- **Turnover**: €650 billion (+13%)

### Employment 2009-2018 Period

- **Shipbuilding**: +30% to -5%
- **Maritime transport**: +12% to +11%
- **Marine living resources**: +29% to -3%
- **Coastal tourism**: +21% to +1%
- **Port activities**: +15% to +1%
- **Marine non-living resources**: -62% to -68%
- **Marine renewable energy**: "Offshore wind" 1.495 million (+4%)

### Turnover if compared to 2017

- **Coastal tourism**: 45%
- **Maritime transport**: 17%
- **Port activities**: 15%
- **Marine living resources**: 11%
- **Shipbuilding**: 8%
- **Marine non-living resources**: 2%
- **Marine renewable energy**: 0.8%

### Turnover if compared to 2017

- **GVA**: 8976 (+15%)

The Blue Economy includes various sectors with significant contributions to employment and turnover. The chart illustrates the growth and decline in employment across different sectors, with notable increases in shipbuilding and maritime transport, and decreases in marine renewable energy and marine non-living resources.
**EMERGING SECTORS**

**BLUE ECONOMY**

**EMERGING SECTORS**

**WAVE AND TIDAL CAPACITY**

- **100 MW million**
  Installed capacity by 2025

In the last decade

**€3.84 billion**

Total EU R&D expenditure on wave and tidal energy

**WAVE**

In 2019, 600 KW of new wave energy capacity was deployed in the EU27.

- **12 MW**
  global installed capacity of wave energy with 8MW (66%) installed in EU27

**DESALINATION**

Between 2010 and 2019 the new commissioned capacity (was of 0.84 million m³/day) investment of €630 million

**TOTAL €630 million**

**BLUE BIOECONOMY**

**NUMBER OF COMPANIES +150% over the last decade**

**RESEARCH AND EDUCATION**

**TOTAL FUNDING €2088 million**

**BLUE ENERGY EMERGING SECTOR**

Includes:

- Floating offshore wind
- Hydrogen generation
- Tidal energy
- Wave energy
- Floating solar photovoltaic energy (FPV)

**70%**

of the global ocean energy capacity has been developed by EU27 based companies

The EU maintains global leadership (despite the UK’s withdrawal from the EU)

**EMERGING SECTORS**

**EMERGING SECTORS**
Almost €500 billion worth of services are generated within a 10 km coastal zone in the EU annually. Sea level rise leading to increased coastal erosion is projected to decrease this value by about 15 billion annually.

Estimate value that COASTAL ECOSYSTEM SERVICES ADD TO THE EU BLUE ECONOMY every year and per member state.

COVID impacts

Established sectors
- Marine living resources
- Marine non-living resources
- Port activities

Emerging sectors
- Blue bioeconomy
- Ocean energy
- Maritime defence
- Cables
- Research and Education
- Marine observation

- CO2 emissions produced by the EU fishing fleet

-18% between 2009 and 2018.

Small impact
Medium impact
Big impact
Prompt recovery
Lagged recovery
Very lagged recovery

Coastal zone area - thousand km²
Annual coastal ecosystem - services value - bln euro
Annual coastal ecosystem - services value - as %GDP

Almost €500 billion

Almost €15 billion annually.