UNCTAD identified 12 sectors relevant to a development strategy focusing on the ocean/blue economy. These 12 sectors comprise both goods and services. The 12 sectors are classified in three categories:

I. Goods Sectors
II. Services Sectors
III. Energy as a joint goods and services sector (it is not possible to differentiate)

To assess the trade potential for each of these sectors, UNCTAD compiled a series of indicators. These indicators are comparable across sectors of the same unit of analysis and can share the same data sources. Indicators within the same sector may not be available at the same level of disaggregation.

The objective of this exercise is to help identify four sectors with highest trade potential, for which the consultant will produce more detailed factsheet under the UNCTAD-DOALOS Oceans Economy and Trade Strategies (OETS) Project. This identification requires a clear decision matrix. In addition to the indicators listed for each sector, some basic facts on both supply and demand trends and dynamics should be provided at the regional and world level. The list provided is illustrative and uses HS codes (2012), W120 Trade in Services Classification and the UN CPC V2.1 (2015) (only for services not fully covered by W120).

It is important to note that data on goods is more available and to a greater level of disaggregation. In the case of services, even if classifications exist, the gathering of data is usually much aggregated and sometimes does not exist. In services, more data can be found in tourism, maritime transport, and ports services.
I. Goods Sectors

A. Marine Fisheries

Note 1: The sector comprises the following products in the Harmonized System (HS) 2012. Note that only 4-digit entries are reported. However, whenever possible the analysis should be undertaken at the 6-digit level.

03.01 Live fish (excluding 0301.11, 0301.19)

03.02 Fish, fresh or chilled, excluding fish fillets and other fish meat of heading 03.04

03.03 Fish, frozen, excluding fish fillets and other fish meat of heading 03.04.

03.04 Fish fillets and other fish meat (whether or not minced), fresh, chilled or frozen.

03.05 Fish, dried, salted or in brine; smoked fish, whether or not cooked before or during the smoking process; flours, meals and pellets of fish, fit for human consumption.

03.06 Crustaceans, whether in shell or not, live, fresh, chilled, frozen, dried, salted or in brine; smoked crustaceans, whether in shell or not, whether or not cooked before or during the smoking process; crustaceans, in shell, cooked by steaming or by boiling in water, whether or not chilled, frozen, dried, salted or in brine; flours, meals and pellets of crustaceans, fit for human consumption.

03.07 Molluscs, whether in shell or not, live, fresh, chilled, frozen, dried, salted or in brine; smoked molluscs, whether in shell or not, whether or not cooked before or during the smoking process; flours, meals and pellets of molluscs, fit for human consumption.

03.08 Aquatic invertebrates other than crustaceans and molluscs, live, fresh, chilled, frozen, dried, salted or in brine; smoked aquatic invertebrates other than crustaceans and molluscs, whether or not cooked before or during the

Note: When relevant and available, data should be collected over the last 5 year.

- Growth (volume, value and unit value): sector as whole and HS6 products
- Exports
  - Share in total domestic and world exports: sector
  - Share in sectoral domestic and world exports: products
  - Revealed Comparative advantage (Balassa Index, Productivity estimate, CEPII RCA)
  - ITC Export Potential
  - Diversification potential path as suggested by the Atlas of economic complexity
  - Top 10 destination countries (share in sectoral exports)
  - Exports quality (Unit Values, Quality estimates from Henn Papageorgiou, and Spatafora (2013))
- Imports
  - Share in total domestic and world imports: sector
  - Share in sectoral domestic and world imports: products
  - Top 10 source countries (share in sectoral imports)
  - Imports RCA (Balassa Index)
  - Import quality (Unit Values, Quality estimates from Henn Papageorgiou, and Spatafora (2013), IMF, and Feenstra and Romalis)
- Trade balance
- Sector Employment
  - Number of workers
  - Share in total employment
  - Informal employment (number and share in sector workforce)

Note: If possible information should be provided also by gender, age and level of education
smoking process; flours, meals and pellets of aquatic invertebrates other than crustaceans and molluscs, fit for human consumption.

0511.91 Animal products; of fish or crustaceans, molluscs or other aquatic invertebrates and dead animals of chapter 3,

**Note 2:** The sector comprises the following products in the Standardized International Trade Classification (SITC), Revision 2 at 4-digits:

- 341
- 342
- 343
- 344
- 366
- 3501
- 3502
- 3503
- 3504

- FDI inflows and outflows in the sector (if available by mode and motivation)
- Number of enterprises businesses in the sector (exporting versus non-exporting)
- Market access conditions: Tariffs and Non-Tariff Measures (unctad.org/ntm).

**Data Sources:**

- UNCTAD Stats

- UNCTAD countries profiles

- WTO trade profiles

- First Global marine assessment:

- ITC Export Potential Map
  [http://exportpotential.intracen.org/#/home](http://exportpotential.intracen.org/#/home)
World Bank: World Development indicators
https://knoema.com/WBWDIGDF2017Sep/world-development-indicators-wdi?gclid=EALalQobChMIr7zhrpOd1wiVBDPTCh02zQ4LEAAYAIAEgleGPD_BwE

World Bank: WITS
http://wits.worldbank.org

Export Quality

Atlas of Economic Complexity
http://atlas.cid.harvard.edu/

National Statistics
Labor and Households Surveys
Enterprises Surveys
Customs Data on trade transactions (firm level data)

Atlas of Economic Complexity
http://atlas.cid.harvard.edu/

CEPII-Unit Values

Non-tariff measures :
Unctad.org/ntm

<table>
<thead>
<tr>
<th>B. Aquaculture (Production)</th>
<th>Indicators</th>
</tr>
</thead>
<tbody>
<tr>
<td>Note 1: Products as defined in FAO classification</td>
<td>• Contribution to GDP: sector and products (Harvested vs farmed product)</td>
</tr>
<tr>
<td>Note 2: The data are coded using the FAO International Standard Statistical Classification of Fishery Commodities (ISSCFC) which is derived from the United Nations Standard International Trade Classification, Revision 3 (SITC Rev. 3) and linked to the Harmonized</td>
<td>• Growth (volume and value): sector and products (Harvested vs farmed product)</td>
</tr>
<tr>
<td></td>
<td>• Share of certified production (both wild and aquaculture)</td>
</tr>
<tr>
<td></td>
<td>• Species coverage (produced and exported as reported in A)</td>
</tr>
</tbody>
</table>
### Commodity Description and Coding System of the World Customs Organization (formerly the Custom Co-operation Council) and to the FAOSTAT classification

- Number of aquaculture facilities/aquaculture output
- Number of fishermen/fishing vessels
- Status of key stocks within EEZs
- Share of internal consumption vs export
- Share of industrial vs small scale, artisanal and subsistence fishing

### Data Sources:

- **FAO**
  - FAO State of World fisheries and aquaculture 2016
    - [http://www.fao.org/3/a-i5555e.pdf](http://www.fao.org/3/a-i5555e.pdf)
  - FAO Fishermen

- Standards in the blue economy

### C. Seafood processing

**Note 1:** The sector comprises the following products in the Harmonized System (HS) 2012, both at 4-digits and 6-digits.

- 1603. Extracts and juices of fish or crustaceans, molluscs or other aquatic invertebrates
- 16.04 Prepared or preserved fish; caviar and caviar substitutes prepared from fish eggs
- 16.05 Crustaceans, molluscs and other aquatic invertebrates, prepared and preserved
- 2301.20 Flours, meals and pellets, of fish or crustaceans, molluscs or other

### Indicators

- Growth (volume and value): sector and products
- Exports
  - Share in total domestic and world exports: sector
  - Share in sectoral domestic and world exports: products
  - Revealed Comparative advantage (Balassa Index, Productivity estimate, CEPII RCA)
  - ITC Export Potential
  - Diversification potential path as suggested by the Atlas of economic complexity
  - Top 10 destination countries (share in sectoral exports)
  - Exports quality (Unit Values, Quality estimates from Henn Papageorgiou, and Spatafora (2013))
**Note 2:** The sector comprises the following products in the Standardized International Trade Classification (SITC), Revision 2 at 4-digits:

- 141
- 371
- 372
- 8142

**Imports**
- Share in total domestic and world imports: sector
- Share in sectoral domestic and world imports: products
- Top 10 source countries (share in sectoral imports)
- Imports RCA (Balassa Index)
- Import quality (Unit Values, Quality estimates from Henn Papageorgiou, and Spatafora (2013))

**Trade balance**

**Sector Employment**
- Number of workers
- Share in total employment
- Informal employment (number and share in sector workforce)

**Note:** if possible information should be provided also by gender, age and level of education

**FDI inflows and outflows in the sector (if available by mode and motivation)**

**Number of enterprises businesses in the sector (exporting versus non-exporting)**

**Level of value addition**

**Market access conditions: Tariffs and Non-Tariff Measures**

http://exportpotential.intracen.org/#/home

World Bank: World Development indicators
https://knoema.com/WBWDIGDF2017Sep/world-development-indicators-wdi?gclid=EAIaIQobChMlr7zhrpOd1wIVBDPTCh02zQ4LEAAYAiAAEgleGPD_BwE

World Bank WITS
http://wits.worldbank.org

National Statistics
Labor and Households Surveys
Enterprises Surveys
Customs Data on trade transactions (firm level data)

Atlas of Economic Complexity
http://atlas.cid.harvard.edu/

CEPII-Unit Values

Non-tariff measures :
Unctad.org/ntm

<table>
<thead>
<tr>
<th>D. Blue BioTrade</th>
<th>Indicators</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Note 1:</strong> The sector comprises the following products in the Harmonized System (HS) 2012, both at 4-digits and 6-digits.</td>
<td>• Growth (volume and value): sector and products</td>
</tr>
<tr>
<td>• Non-tariff measures :</td>
<td>• Exports</td>
</tr>
<tr>
<td></td>
<td>o Share in total domestic and world exports: sector</td>
</tr>
<tr>
<td></td>
<td>o Share in sectoral domestic and world exports: products</td>
</tr>
<tr>
<td></td>
<td>o Revealed Comparative advantage (Balassa Index, Productivity estimate, CEPII RCA)</td>
</tr>
<tr>
<td></td>
<td>o ITC Export Potential</td>
</tr>
<tr>
<td></td>
<td>o Diversification potential path as suggested by the Atlas of</td>
</tr>
</tbody>
</table>

**Note 2:** Sustainably harvested marine based extracts, ingredients and raw material (sponges, fish oils and fats, algae and seaweeds based products - edible and not edible) for the food, cosmetic, phytomedicine and jewel making (when part of living organisms such as pearls and corals)
0509 Natural sponges of animal origin

1504 Fats and oils and their fractions of fish or marine mammals; whether or not refined, but not chemically modified
1504.10 Fish-liver oils and their fractions
1504.20 Fats and oils and their fractions, of fish, other than liver oils

1212.21 Seaweeds and other algae fit for human consumption
1212.29 Seaweeds and other algae other

20.08 Fruit, nuts and other edible parts of plants, otherwise prepared or preserved, whether or not containing added sugar or other sweetening matter or spirit, not elsewhere specified or included.
2008.99 Other

Ornamental fish (live):
0301.1100 -- Freshwater
0301.19 -- Other

711709 Natural and cultured pearls
050800 Coral and similar materials

Data Sources:

UNCTAD Stats

UNCTAD countries profiles
WTO trade profiles

First Global marine assessment:

ITC Export Potential Map
http://exportpotential.intracen.org/#/home

World Bank: World Development indicators
https://knoema.com/WBWDIGDF2017Sep/world-development-indicators-wdi?gclid=EAIaIQobChMIr7hrpOd1wLVBDPTCh02zQ4LEAYAIAAEGleGPD_BwE

World Bank WITS
http://wits.worldbank.org

National Statistics
Labor and Households Surveys
Enterprises Surveys
Customs Data on trade transactions (firm level data)

Atlas of Economic Complexity
http://atlas.cid.harvard.edu/

CEPII-Unit Values

Non-tariff measures:
Unctad.org/ntm

<table>
<thead>
<tr>
<th>E. Ships and parts manufacture</th>
<th>Indicators</th>
</tr>
</thead>
<tbody>
<tr>
<td>Note 1: The sector comprises the following products in the Harmonized System (HS) 2012.</td>
<td>• Growth (volume and value): sector and products</td>
</tr>
<tr>
<td></td>
<td>• Exports</td>
</tr>
<tr>
<td></td>
<td>o Share in total domestic and world exports: sector</td>
</tr>
<tr>
<td>Code</td>
<td>Description</td>
</tr>
<tr>
<td>-------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>8901</td>
<td>Cruise ships, excursion boats, ferry-boats, cargo ships, barges and similar vessels for the transport of persons or goods</td>
</tr>
<tr>
<td>8902</td>
<td>Fishing vessels, factory ships and other vessels; for processing</td>
</tr>
<tr>
<td>8905</td>
<td>Light-vessels, fire-floats, dredgers, floating cranes, other vessels; the navigability of which is subsidiary to main function; floating docks, floating submersible drilling, production platforms</td>
</tr>
<tr>
<td>8906</td>
<td>Vessels; other, including warships and lifeboats, other</td>
</tr>
<tr>
<td>Note</td>
<td>The sector also comprises the following products in the Harmonized System (HS) 2017 at 6-digits</td>
</tr>
<tr>
<td>840610</td>
<td>Turbines; steam and other vapour turbines, for marine propulsion</td>
</tr>
<tr>
<td>840721</td>
<td>Engines; outboard motors for marine propulsion, spark-ignition reciprocating or rotary internal combustion piston engines</td>
</tr>
<tr>
<td>840729</td>
<td>Engines; for marine propulsion, (other than outboard motors), spark-ignition reciprocating or rotary internal combustion piston engines</td>
</tr>
<tr>
<td>840810</td>
<td>Engines; for marine propulsion, compression-ignition internal combustion piston engines (diesel or semi-diesel engines)</td>
</tr>
</tbody>
</table>

- Share in sectoral domestic and world exports: products
- Revealed Comparative advantage (Balassa Index, Productivity estimate, CEPII RCA)
- ITC Export Potential
- Diversification potential path as suggested by the Atlas of economic complexity
- Top 10 destination countries (share in sectoral exports)
- Exports quality (Unit Values, Quality estimates from Henn Papageorgiou, and Spatafora (2013))

- Imports
  - Share in total domestic and world imports: sector
  - Share in sectoral domestic and world imports: products
  - Top 10 source countries (share in sectoral imports)
  - Imports RCA (Balassa Index)
  - Exports quality (Unit Values, Quality estimates from Henn Papageorgiou, and Spatafora (2013))

- Trade balance
- Sector Employment
  - Number of workers
  - Share in total employment
  - Informal employment (number and share in sector workforce)

Note: if possible information should be provided also by gender, age and level of education

- FDI inflows and outflows in the sector (if available by mode and motivation)
- Number of enterprises businesses in the sector (exporting versus non-exporting)
- Market access conditions: Tariffs and Non-Tariff Measures (unctad.org/ntm).

Data Sources:
- UNCTAD Stats
- UNCTAD countries profiles
II. Services Sectors

<table>
<thead>
<tr>
<th>F. Marine and coastal Tourism</th>
<th>Indicators</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Generic</strong></td>
</tr>
<tr>
<td><strong>Note 1:</strong> Reference classification: WTO W120</td>
<td>• Contribution to GDP: sector and products</td>
</tr>
</tbody>
</table>

WTO trade profiles

First Global marine assessment:

ITC Export Potential Map
http://exportpotential.intracen.org/#/home

World Bank: World Development indicators
https://knoema.com/WBWDIGDF2017Sep/world-development-indicators-wdi?gclid=EAIaIQobChMIr7hrpOd1wIVBDPTCh02zQ4LEAYAiAAEgP_BwE

World Bank WITS
http://wits.worldbank.org

National Statistics
Labor and Households Surveys
Enterprises Surveys
Customs Data on trade transactions (firm level data)

Atlas of Economic Complexity
http://atlas.cid.harvard.edu/

CEPII-Unit Values

Non-tariff measures:
Unctad.org/ntm
9. TOURISM AND TRAVEL RELATED SERVICES
A. Hotels and restaurants (incl. catering) 641-643
B. Travel agencies and tour operators services 7471
C. Tourist guides services 7472
D. Other

- Growth (volume and value): sector
- Exports
  - Share in total domestic and world exports: sector
  - Share in sectoral domestic and world exports: sub-sectors
  - Top 10 destination countries (share in sectoral exports)
- Imports
  - Share in total domestic and world imports: sector
  - Share in sectoral domestic and world imports: products
  - Top 10 source countries (share in sectoral imports)
- Sector Employment
  - Number of workers
  - Share in total employment
  - Informal employment (number and share in sector workforce)
  
  **Note:** if possible information should be provided also by gender, age and level of education

- Firms: number of firms in the sector, size (sales and employees) distribution, share of exporting firms
- FDI inflows and outflows in the sector

  **Sector Specific**

- Travel data, tourist arrivals and tourists receipts
- Share of tourists for leisure and for coastal activities
- Number of hotels a 50 Km from the coast
- Coastal areas open for touristic investment (if available)
- Disaggregated data for type of tourism (sun and sea, cruise, coastal ecotourism, sport, recreation, cultural, diving, marine mammal and bird watching and recreational boating)
- Share of marine and coastal ecotourism vs. tourism (if available)
- Marine protected area vs. total EEZ

Data Sources:

UNCTAD-WTO ITC annual trade in services dataset
### G. Trade in fisheries services

**Note 1:** Reference classification: WTO W120

F Other business services  
g. Services incidental to fishing

**Note 2:** UN CPC V2.1 2015

8615. Support and operation services to fishing (and aquaculture)

<table>
<thead>
<tr>
<th>Indicators</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Generic indicators (as above in marine and costal tourism)</strong></td>
</tr>
<tr>
<td><strong>Specific sector indicators</strong></td>
</tr>
<tr>
<td>• Number of licensed operators</td>
</tr>
<tr>
<td>• Internal sales</td>
</tr>
<tr>
<td>• Variety of services provided</td>
</tr>
<tr>
<td>• Foreign participation in the sector</td>
</tr>
</tbody>
</table>

No source of data identified at the global level

### H. Maritime transport

**Note 1:** Reference classification: WTO W120

**Note 2:** use indicators in UNCTAD maritime transport country profile and UNCTADstat Database

<table>
<thead>
<tr>
<th>Indicators</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>A. International Maritime Transport Services</strong></td>
</tr>
<tr>
<td>a. Passenger transportation 7211</td>
</tr>
<tr>
<td>b. Freight transportation 7212</td>
</tr>
<tr>
<td><strong>Generic indicators (as above in marine and costal tourism)</strong></td>
</tr>
<tr>
<td><strong>Specific sector indicators</strong></td>
</tr>
<tr>
<td>• Seaborne trade volumes (levels; growth rates and country grouping shares)</td>
</tr>
<tr>
<td>• Container port throughput</td>
</tr>
<tr>
<td>• Carrying capacity (total and per type of ship)</td>
</tr>
</tbody>
</table>


| c. Rental of vessels with crew 7213 | • Sizes of the fleet (also by type of ship) |
| d. Maintenance and repair of vessels 8868 | • Liner connectivity index (bilateral and national) |
| e. Pushing and towing services 7214 | • Info on GHG emissions from transport |
| f. Supporting services for maritime transport 745 | • Seafaring jobs |

Data Sources:

- UNCTAD-WTO ITC annual trade in services dataset
  [https://www.wto.org/english/res_e/statis_e/trade_datasets_e.htm](https://www.wto.org/english/res_e/statis_e/trade_datasets_e.htm)

- UNCTAD Review of Maritime Transport

- UNCTADstat maritime database

- UNCTAD countries profiles:

- IMO Statistics:
  [http://www.imo.org/en/KnowledgeCentre/ShipsAndShippingFactsAndFigures/Statisticalresources/Pages/default.aspx](http://www.imo.org/en/KnowledgeCentre/ShipsAndShippingFactsAndFigures/Statisticalresources/Pages/default.aspx)

- BIMCO-ICS Manpower Report:
  [https://www.bimco.org](https://www.bimco.org)

- WB Stats: World Development indicators
  [https://knoema.com/WBWDIGDF2017Sep/world-development-indicators-wdi?gclid=EALalQobChMlr7zhrpOd1wlVBDPtCh02zQ4LEAAYAIAAEgJeGPD_BwE](https://knoema.com/WBWDIGDF2017Sep/world-development-indicators-wdi?gclid=EALalQobChMlr7zhrpOd1wlVBDPtCh02zQ4LEAAYAIAAEgJeGPD_BwE)

### I. Marine Biotechnology and bioprospecting

| Note: Reference classification: WTO W120 |
| Indicators |

| C. Research and Development Services |
| a. R&D services on natural sciences 851 |
| c. Interdisciplinary R&D services 853 |
| • Position in WIPO's Global innovation index |
| • Share of R&D vs. GDP |
| • Share of R&D (public private) in marine biotechnology |
| • Number of marine research projects, centres and vessels |
| • Member of CBD and Nagoya and existence or ABS law |
1. Business services
   F. Other business services
      e. technical testing and analysis (CPC 8676)
      m. Related scientific and technical consulting services (CPC 8675)

   - Number of patents on marine based inventions
   - Income for licenses

Data Sources:

<table>
<thead>
<tr>
<th>Innovation index</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Word development indicators</th>
</tr>
</thead>
<tbody>
<tr>
<td><a href="https://knoema.com/WBWDIGDF2017Sep/world-development-indicators-wdi?gclid=EAIaIQobChMIr7zhrpOd1wIVBDPTCh02zQ4LEAAYAiAAEgleGPD_BwE">https://knoema.com/WBWDIGDF2017Sep/world-development-indicators-wdi?gclid=EAIaIQobChMIr7zhrpOd1wIVBDPTCh02zQ4LEAAYAiAAEgleGPD_BwE</a></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>UNESCO R&amp;D indicators</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>International research vessels</th>
</tr>
</thead>
<tbody>
<tr>
<td><a href="https://www.researchvessels.org/">https://www.researchvessels.org/</a></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>International Oceanographic Commission</th>
</tr>
</thead>
</table>

J. Port and related logistical services

<table>
<thead>
<tr>
<th>Indicators</th>
</tr>
</thead>
</table>

**Note:** Reference classification: WTO W120

H. Services auxiliary to all modes of transport

a. Cargo-handling services 741
b. Storage and warehouse services 742
c. Freight transport agency services 748
d. Other 749

**Generic indicators (as above in marine and coastal tourism)**

- Vessel ports calls by region and type (bulk cargo, containers, dry cargo, passengers, tankers, etc.).
- Container port throughput
- Average port waiting time (all traffic) in days
- Position in logistical performance index
- Level of implementation of WTO Trade Facilitation Agreement
- Level of intermodal connectivity (land, train and air) (if available)
- Cargo clearance time in ports
Transport costs (port charges)

Data Sources:

- World Bank logistical performance index
  https://lpi.worldbank.org/international/global
- UNCTAD Review of Maritime Transport
- UNCTADstat maritime database
- National transport data observatories (but not available worldwide)
  Trade Facilitation
  http://www.unescap.org/resources/escap-oecd-handbook-indicators-trade-facilitation

<table>
<thead>
<tr>
<th>K. Coastal and marine Environmental Services (Environmental Services)</th>
<th>Indicators</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Note 1:</strong> Reference classification: WTO W120</td>
<td>• Provision, export and import of coastal management, protection and restoration</td>
</tr>
<tr>
<td>6. ENVIRONMENTAL SERVICES</td>
<td>• Number of firms providing coastal and marine environmental services</td>
</tr>
<tr>
<td>A. Sewage services 9401</td>
<td>• Providers of marine biomass measurement services</td>
</tr>
<tr>
<td>B. Refuse disposal services 9402</td>
<td>• Number of carbon sequestration and restoration project</td>
</tr>
<tr>
<td>C. Sanitation and similar services 9403</td>
<td>• Number of existing and future marine and coastal related REDD+ projects</td>
</tr>
<tr>
<td>D. Other 9404-9409</td>
<td>• Total of GHG storage in REDD + projects</td>
</tr>
<tr>
<td><strong>Note 2:</strong> UN CPC V2.1 2015</td>
<td></td>
</tr>
<tr>
<td>94 Sewage and waste collection, treatment and disposal and other environmental protection services</td>
<td></td>
</tr>
<tr>
<td>941 Sewerage, sewage treatment and septic tank cleaning services</td>
<td></td>
</tr>
<tr>
<td>942 Waste collection services</td>
<td></td>
</tr>
</tbody>
</table>
III. Energy as a joint goods and services sector

<table>
<thead>
<tr>
<th>L. Ocean energy &amp; renewable energy (in this case)</th>
<th>Indicators</th>
</tr>
</thead>
<tbody>
<tr>
<td>Note: No classification available, sources list below based on IPCC references</td>
<td>• Import dependency (%) (e.g. fuels)</td>
</tr>
<tr>
<td>List of applicable technologies and related goods</td>
<td>• Coastal/offshore wind electricity production</td>
</tr>
<tr>
<td>Marine and coastal off shore wild</td>
<td>• Submarine geothermal electricity/heat production</td>
</tr>
<tr>
<td>Wave, Tidal and Ocean Current Technologies</td>
<td>• Waves, tidal and current electricity production</td>
</tr>
<tr>
<td>Submarine Geothermal Energy</td>
<td>• Algae-based and other marine biomass biofuel production (litres)</td>
</tr>
<tr>
<td>Marine biomass based biofuels</td>
<td>• Oceans-sourced electricity as a percentage of total electricity consumption</td>
</tr>
<tr>
<td>Chemical Potential of Seawater</td>
<td>• Incentives for investing and produce oceans-based energy enacted? (Yes/No - if yes please detail)</td>
</tr>
</tbody>
</table>

General classification for energy related services in the WTO (W120) (only those applicable to non-fuel-based energy generation). W120 is not very good in providing a classification on energy. It is probable that data can only

Data Sources (Very aggregated data):

- UNCTADStat
  [https://unctadstat.unctad.org/EN/](https://unctadstat.unctad.org/EN/)
be found at the producer level, if any.

- Related services (transport, construction, consulting and distribution and engineering)
- Services incidental to energy distribution (CPC 887)

Data Sources:

- UNCTAD-WTO ITC annual trade in services dataset
  [https://www.wto.org/english/res_e/statis_e/trade_datasets_e.htm](https://www.wto.org/english/res_e/statis_e/trade_datasets_e.htm)

- IRENA data and country profiles:
  [http://resourceirena.irena.org/gateway/dashboard/?topic=18&subTopic=45](http://resourceirena.irena.org/gateway/dashboard/?topic=18&subTopic=45)

- IEA statistics:
  [https://www.iea.org/statistics/](https://www.iea.org/statistics/)