

Key Economic Issues of Blue Economy

Younus Ahmed Khan

- 1. Food Security
- 2. Demand of Protein
- 3. Rising Coastal Tourism
- 4. Transportation and Seaborne Trade
- 5. Demand for Alternative Sources of Energy
- 6. Coastal Urbanization
- 7. Improving Ocean Health
- 8. Providing Marine Governance
- 9. Developing Ocean Technologies

Guiding Principles of Blue Economy

- 1. Efficient Utilization of Marine Resources
- 2. Opportunities in Emerging Marine Industries
- 3. Growth with Sustainability concerns
- 4. Creating Legal and Regulatory Institutions

Elements of Blue Economy

- 1. Agriculture including fisheries and aquaculture
- 2. Mining-Sea bed
- 3. Industries
- 4. Services-tourism, transportation, deep sea banking and insurance.

Accounting of data and measurements for Blue Economy

Emerging Sectors linked with Blue Economy

1. Fisheries and Aquaculture
2. Port and Shipping
3. Deep sea resources
4. Marine Biotechnology
5. Services

Ocean Energy

- 1. Relevance of Renewable Ocean Energy
- 2. SDGs (Sustainable Dev. Goals) and Blue Economy

The recent Sustainable Development Goals (SDGs) have raised the need for affordable, reliable, sustainable and modern energy requirement for all by the year 2030, defined in SDG-7. It aims at increasing the share of renewable energy in the total energy basket of the world. In addition, SDG-14, aims at sustainable use of oceans, seas and marine resources, especially for Small Island Developing States (SIDS) and Least Developed Countries (LDCs).

Both these goals can be accomplished together while answering the untapped potential of Offshore Renewable Energy.

Ocean-based renewable energy have the potential to enhance the efficiency of harvesting non-conventional resources, reduce the carbon emissions

Ocean Energy

- 3. Potential, Current State and Demand Pattern of Renewable Energy
 - Wave energy; Ocean Thermal Energy; Offshore Wind Energy; Tidal Energy; Energy from Salinity; Offshore Solar Energy
- 4. Cost of Ocean Renewable Energy
- 5. Ocean Renewable Energy for Small Island Developing States (SIDS)
- 6. Ocean Renewable Energy for Indian Ocean Rim Assoc. (IORA)
- 7. Factors affecting Ocean Renewable Energy for Small Island Developing States (SIDS) growth of Renewable ocean energy

Technology status

- 1. Challenges and Opportunities

Environmental Impact

- 1. Restoration of Environmental and ecological challenges

Technology Driven Emerging Sectors

- 1. Deep Sea Oceanic Resources
- 2. Offshore Oceanic Resources
- Marine Patents and researches