

# BLUE ECONOMY

The Blue Economy is sustainable use of ocean resources for economic growth, improved livelihoods and jobs, and ocean ecosystem health.

The Blue Economy encompasses many activities...

## RENEWABLE ENERGY

**Sustainable marine energy** can play a vital role in social and economic development.

## FISHERIES

Marine fisheries contribute more than **US\$210 billion** annually to global GDP. More sustainable fisheries can generate more revenue, more fish and help restore fish stocks.

## MARITIME TRANSPORT

Over **80% of international goods** traded are transported by sea, and the volume of seaborne trade is expected to double by 2030 and quadruple by 2050.

## TOURISM

Ocean and coastal tourism can bring jobs and economic growth. Coastal Least Developed Countries and Small Island Developing States receive more than **45 million** visitors per year.

## CLIMATE CHANGE

The impacts of climate change on oceans—rising sea levels, coastal erosion, changing ocean current patterns, and acidification—are staggering. At the same time, **oceans are an important carbon sink** and help mitigate climate change.

## WASTE MANAGEMENT

**80% of litter** in the ocean is from land-based sources. Better waste management on land can help oceans recover.

To learn about other aspects of the blue economy, visit [www.worldbank.org/oceans](http://www.worldbank.org/oceans)

# The Blue Economy

**Cyrus Rustomjee**



## **The Blue Economy:**

Developing the Blue Economy Robert C. Brears, 2021-10-20 Traditionally the ocean economy is viewed solely as a mechanism for economic growth. In this business as usual approach, large scale industrial economies have developed the ocean economy through the exploitation of maritime and marine resources, often without consideration of how those activities impact the future health or productivity of those same resources. This has led to aquatic ecosystems being viewed and treated as limitless resources, the marine environment becoming a dumping ground for waste, overfishing diminishing fishing stocks, ocean habitats being degraded from coastal developments, sea level rise impacting coastal communities and infrastructure, increasing ocean acidification and the marginalisation of poor coastal communities. Recognising the failings of the traditional ocean economy, there is a transition underway around the world towards the Blue Economy. This concept moves beyond the business as usual approach with economic development and ocean health complementary to one another. In the Blue Economy, the environmental risks of and ecological degradation from economic activity are mitigated or significantly reduced. Therefore, economic activity is in balance with the long term capacity of the ocean ecosystems to support this activity and remain healthy and resilient. This book will provide an overview of the various technologies used to promote cross sectoral and multi scalar collaboration, facilitate the integrated management of sectors and resources, foster partnerships between governments and industry, encourage R D in new technologies in resource use and management, and scale up innovative financing mechanisms in the development of a Blue Economy. Also, the book will contain in depth case studies that illustrate how locations of differing climates, lifestyles and income levels have implemented technologies to facilitate the development of the Blue Economy. Developing the Blue Economy will provide an accessible resource for practitioners and researchers working in the field on the various innovative technologies being implemented around the world to create a Blue Economy.

**The Blue Economy** Gunter A. Pauli, 2010 Dr Gunter Pauli is challenging the green movement; he has been so much a part of it to do better, to do more. He is the entrepreneur who launched Ecover; those products are probably in many of your homes. He built the largest ecologically sound factory in the world. His participation in the Club of Rome and the founding of Zero Emissions Research Institute (ZERI) has made an immense contribution to sustainability, both in terms of research, public awareness and articulating a visionary direction. He has dedicated himself to teaching and the hands on implementation of projects that have brought healthy environments, good nutrition, health care and jobs in sustainable commerce to a myriad of places in the world.

**The Blue Economy** United States. Congress, United States Senate, Committee On Commerce, 2018-01-14 The blue economy: the role of the oceans in our nation's economic future hearing before the Subcommittee on Oceans, Atmosphere, Fisheries and Coast Guard of the Committee on Commerce, Science and Transportation, United States Senate, One Hundred Eleventh Congress, first session, June 9, 2009. *Preparing a Workforce for the New Blue Economy* Liesl Hotelling, Richard W. Spinrad, 2021-05-27 Preparing a Workforce for the New Blue Economy People Products

and Policies discusses the Blue Economy how the industry will develop and how to train the next generation The book considers the use of big data key skillsets training undergraduate and graduate students the Transition Assistance Program TAP in the US economic opportunities in African coastal countries and governmental agencies non profits and NGO s Finally a broad range of case studies are provided covering oil spills commercial fishing data protection and harvesting sustainability and weather forecasting all presented to highlight the educational requirements of the workforce and potential economic opportunities Coordinates efforts from different disciplines and sectors and shares effective teaching practices and approaches Includes comprehensive case studies that highlight the educational requirements of the workforce and potential economic opportunities Presents a framework for unifying several workforce sectors that are dependent upon the ocean

Tracing the Blue Economy Awni Behnam,2013-11-02 Forming part of the Fondation de Malte s LUMEN Monograph Series in this text Dr Awni Behnam President of the International Ocean Institute and former Assistant Secretary General of the United Nations explores how we must live with the ocean and from the ocean in a sustainable relationship The interconnectedness of emerging global challenges is forcing a policy dimension change in the form of the Blue Economy as an integrated approach to the governance of the ocean and urban interface revolving around the human dimension The paradigm shift came when Elisabeth Mann Borgese founder of the International Ocean Institute viewed the situation from the seaward side where a sustainable ocean economy integrates with and is inclusive of the Green Economy She famously stated if before you saw the sea and the sea floor as a continuation of the land you now see the land as a continuation of the sea the concept of the Blue Economy is an attempt to do justice to that genius vision **The Blue Economy** United States Senate,Committee on Commerce Science (senate),United States. Congress,2019-09-05 The blue economy the role of the oceans in our nation s economic future hearing before the Subcommittee on Oceans Atmosphere Fisheries and Coast Guard of the Committee on Commerce Science and Transportation United States Senate One Hundred Eleventh Congress first session June 9 2009 *The Empty Sea* Ilaria Perissi,Ugo Bardi,2021-02-12 The Blue Economy is used to describe all of the economic activities related to the sea with a special emphasis on sustainability Traditional activities such as fisheries but also undersea mining tourism and scientific research are included as well as the phenomenal growth of aquaculture during the past decade All of these activities and the irresistible prospect of another new frontier has led to enthusiastic and most likely overenthusiastic assessments of the possibilities to exploit the sea to feed the world provide low cost energy become a new source of minerals and other future miracles This book makes sense of these trends and of the future of the blue economy by following our remote ancestors who gradually discovered the sea and its resources describing the so called fisherman s curse or why fishermen have always been poor explaining why humans tend to destroy the resources on which we depend and assessing the realistic expectations for extracting resources from the sea Although the sea is not so badly overexploited as the land our demands on ecosystem services are already above the oceans sustainability limits Some new ideas including

fishing down for untapped resources such as plankton could lead to the collapse of the entire marine ecosystem How Neanderthals crossed the sea in canoes how it was possible for five men on a small boat to kill a giant whale what kind of oil the virgins of the Gospel put into their lamps how a professor of mathematics Vito Volterra discovered the equations of fishing why it has become so easy to be stung by a jellyfish while swimming in the sea and how to play Moby Dick a simple board game that simulates the overexploitation of natural resources are just some of the questions that you will be able to answer after reading this engaging and insightful book about the rapidly expanding relationship between humanity and the sea

The Caribbean Blue Economy Peter Clegg, Robin Mahon, Patrick McConney, Hazel A. Oxenford, 2020-10-22 The Blue Economy is emerging on the global scene as a powerful and persuasive new concept for sustainable development based on economic activities associated with the ocean Several regions globally have adopted this concept at national and regional levels including the Caribbean Given the complex multisectoral and multilevel nature of the Blue Economy it is clear that different approaches will be needed for different regions Hence this volume explores the opportunities threats and risks involved in operationalising the Blue Economy in the Wider Caribbean Region defined as northern Brazil to the USA and all mainland and island countries and territories in between The first part of the book looks at where the region stands in the global picture regarding adoption of the Blue Economy and what is planned The second set of chapters examines key crosscutting issues such as ecosystem services climate change and governance at national and regional levels that could make or break the Blue Economy initiative The book then goes on to explore the main sectoral activities that will constitute the Blue Economies in the region fisheries tourism shipping and transport renewable energy oil and gas seabed mining and waste management are all considered The book ends with a synthesis of the political and technical requirements to overcome threats and take advantage of opportunities in the Blue Economy

The Blue Economy Handbook of the Indian Ocean Region Attri, V.N., Bohler-Mulleris, Narnia, 2018-08-03 As humanity enters the Anthropocene epoch the oceans are more at risk than ever before as a result of the increased exploitation of its resources The Indian Ocean is the third largest ocean in the world comprising 20% of the water on the Earth's surface The sea lanes in the Indian Ocean are among the busiest in the world with more than 80 percent of global seaborne trade in oil transiting through the Indian Ocean and its vital chokepoints and an estimated 40% of the world's offshore oil production comes from the Indian Ocean The importance of this region cannot be underestimated and there is no doubt that there are many opportunities for economic growth and job creation presented by the waters washing the shores of the Indian Ocean Rim In order to ensure a desirable future for humanity it is necessary to make use of the ocean's resources in a sustainable and responsible manner Climate change is affecting the Indian Ocean negatively placing a strain on the ability to ensure food security and damaging the economies of small island states that depend on fisheries and aquaculture for their livelihoods Increasing ocean temperatures and ocean acidification are taking a toll on ecosystems This book is the first of its kind providing fresh insights into the various aspects and impacts

of the Blue Economy in the Indian Ocean Region from shifting paradigms to an accounting framework gender dynamics the law of the sea and renewable energy this handbook aims at increasing awareness of the Blue Economy in the Indian Ocean Region and to provide evidence to policy makers in the region to make informed decisions The contributions are from a mixture of disciplines by scholars and experts from seven countries The Blue Economy Handbook of the Indian Ocean Region V.N. Attri,Narnia Bohler-Mulleris,2018-08-03 As humanity enters the Anthropocene epoch the oceans are more at risk than ever before as a result of the increased exploitation of its resources The Indian Ocean is the third largest ocean in the world comprising 20% of the water on the Earth s surface The sea lanes in the Indian Ocean are among the busiest in the world with more than 80 percent of global seaborne trade in oil transiting through the Indian Ocean and its vital chokepoints and an estimated 40% of the world s offshore oil production comes from the Indian Ocean The importance of this region cannot be underestimated and there is no doubt that there are many opportunities for economic growth and job creation presented by the waters washing the shores of the Indian Ocean Rim In order to ensure a desirable future for humanity it is necessary to make use of the oceans resources in a sustainable and responsible manner Climate change is affecting the Indian Ocean negatively placing a strain on the ability to ensure food security and damaging the economies of small island states that depend on fisheries and aquaculture for their livelihoods Increasing ocean temperatures and ocean acidification are taking a toll on ecosystems This book is the first of its kind providing fresh insights into the various aspects and impacts of the Blue Economy in the Indian Ocean Region from shifting paradigms to an accounting framework gender dynamics the law of the sea and renewable energy this handbook aims at increasing awareness of the Blue Economy in the Indian Ocean Region and to provide evidence to policy makers in the region to make informed decisions The contributions are from a mixture of disciplines by scholars and experts from seven countries **The Blue Economy and Small States** Julian Peter Roberts,Ahmed Ali (Research officer),2016 Island nations have benefited from their ocean resources with marine uses and activities contributing to their economic development There is a growing appreciation of the critical role oceans play in sustainable economic growth and the need to manage and protect coastal and marine ecosystems that are the fundamental basis for that growth The Blue Economy Somnath Hazra,Anindya Bhukta,2022-10-13 This volume defines and analyzes the Blue Economy a system that encompasses all the economic activities which are happening in and around the ocean within a sustainable development framework with focus on countries in Asia This work is timely as Blue Economy activities account for a significant share of GDPs in the island and coastal economies in the Asia region sustaining the livelihoods of one of the largest sections of the world s population This book therefore assesses how the Blue Economy contributes to these livelihoods from economic and ecological perspectives and analyzes the various types of ecosystem services provided and how these services are regulated and maintained While most studies of the Blue Economy focus only on the economic aspects this book provides ample statistical data to demonstrate why ecosystem services should additionally be considered for the

estimation and valuation of the Blue economy The book is primarily meant for researchers students and teachers in the fields of environmental and ocean economics sustainable development and ecosystem services and will be of further interest to policymakers and government officials working in matters related to the Blue Economy and sustainability policy **The Blue Economy 3.0** Gunter Pauli,2017-09-11 The Blue Economy cites a new business model in China where novel paper production turns crushed rocks including mining waste that has piled up over centuries into sheets for printing writing and packaging without the use of water without cutting down a tree and recyclable forever It details how thistles considered a weed is turned into a plastic a lubricant and a herbicide converting an old petrochemical plant into a biorefinery **Blue Economy of the Indian Ocean** Ranadhir Mukhopadhyay,Victor J. Loveson,Sridhar D. Iyer,P.K. Sudarsan,2020-11-03 The economic paradigms currently dominating the world are not sustainable The threats from climate change exploitation based approaches to commerce and the excess acquisition of resources loom large as well as the possibility of military flare ups Maintaining a balance between development and ecosystems aspirations for growth and the need for sustainability is a prescient challenge The Indian Ocean Region IOR encompasses some of the poorest countries in the world and those that will bear the brunt of the negative impacts from climate change This book explores the immense potential of the IOR and how best to maintain sustainable and responsible economic and strategic activities The combination of science innovation and entrepreneurship will create a new blue economy business model which has the potential to transform society Based on critical analysis of the model and its practical applications including risks as well as opportunities the topics discussed range from food security energy and resilience to climate change trade and investments and improved maritime connectivity to tourism poverty alleviation and socioeconomic growth encompassing a wide range of interests and expertise FEATURES Examines the geo politics geo resources and geo hazards of the IOR and identifies opportunities and methods to achieve success Covers a detailed assessment of available resources fisheries minerals energy threats such as pollution plastic acoustic carbon bio invasion geo politics maritime security military invasion and strategic vision determining carrying capacity ethical governance and responsible ecosystem of the Indian Ocean Analyzes the economics of the blue economy the global scenario including the Pacific and Caribbean islands and the aspect of the Chinese geo political invasion in the Indian Ocean Inspires entrepreneurs to adopt new ways of creating economic benefits reducing energy use and increasing revenue while simultaneously helping the communities involved Discusses the threat and security perspectives of the IOR and the collective responsibility for a sustainable use of resources Crossing a wide range of interests and expertise this book explores topics and ideas that will be essential to researchers and professionals in marine sciences economics business geography and political sciences Graduate students in the same fields as well as any and all organizations that maintain a presence in the IOR will likewise find this book to be a valuable resource *The Blue Economy Version 2.0* Gunter A. Pauli,2015 La 4e de couverture porte The Blue Economy takes readers beyond the obvious and aims to wake up the entrepreneur in all of us The

innovations it explores are founded in solid science and demonstrated by multiple platforms Committed grassroots entrepreneurs worldwide can realise triple cash flow using open source innovations that create competitive business models This book will encourage thousands and perhaps millions of us to apply a Blue Economy business model that will shift us from scarcity to abundance

**Blueprint for the Blue Economy: Strategies for Sustainable Growth and Innovation**

Robert C. Brears, The Blue Economy presents a transformative approach to harnessing ocean resources for economic growth while safeguarding marine ecosystems Blueprint for the Blue Economy Strategies for Sustainable Growth and Innovation explores the intricate balance between economic development environmental stewardship and social equity in ocean based industries Covering a wide range of sectors including fisheries aquaculture renewable marine energy tourism and maritime transport this book delves into the opportunities and challenges shaping the sustainable use of ocean resources With a focus on investment innovation and policy frameworks this book outlines strategies to foster a resilient and thriving Blue Economy Readers will gain insights into governance models financing mechanisms technological advancements and sustainability practices that drive long term prosperity without compromising marine biodiversity By integrating global trends regulatory frameworks and future pathways Blueprint for the Blue Economy serves as an essential resource for policymakers researchers sustainability professionals and investors aiming to navigate the evolving landscape of sustainable ocean development Whether you are an entrepreneur exploring blue finance a policymaker shaping ocean governance or a sustainability advocate working towards a climate resilient future this book provides the strategic insights needed to drive impactful change Unlock the full potential of the Blue Economy and contribute to a future where economic growth and ocean conservation go hand in hand

The Blue Economy National Maritime Foundation (New Delhi, India). Annual Maritime Power Conference, 2017 On economic aspect of Oceans around India covered in the Annual Maritime Power Conference moderated by National Maritime Foundation New Delhi India in 2017

**Blue Economy. The new frontier for marine environmental protection and sustainable development** Ekemeabasi Essen, 2020-12-28 Research Paper postgraduate from the year 2020 in the subject Law Comparative Legal Systems Comparative Law grade 4 65 course Law language English abstract The paper reviewed and analyzed the importance and principles of blue economy The paper identified the challenges of blue economy and possible solutions The ability to maintain the marine environment to provide jobs and nutrition on long term is being threatened by human economic activities and development approaches The blue economy was initiated to provide services and values that are beneficial to local communities coastal states and the world at large Blue economy is an integration of sustainable development and growth which involves every aspect of national and global governance economic development environmental protection and sustainability The basis of blue economy is to achieve long term prosperity by a country befitting the wellbeing of all citizens and mankind preserving the environment especially the oceans The earth surface is covered by water and as such the fact that the oceans and seas matter for sustainable



development is an undeniable fact This paper is aimed at analyzing the concept of blue economy as an instrument for protecting marine environment and ensuring sustainable development

**Developing the Blue Economy in Caribbean and Other Small States** Cyrus Rustomjee,2016

**Aquatic food systems in the blue economy** Food and Agriculture Organization of the United Nations,Brudevoll, A.,2025-05-09

Blue economy emerged as a policy trend over the last decade and is an increasingly influential concept on global regional and national policy agendas While the blue economy concept inspires interdisciplinary and intersectoral policies and programmes no commonly accepted definition of the blue economy including its spatial or thematic scope exists This report reviews and analyses how stakeholders apply the blue economy strategically and operationally in their policy and programming with particular attention to the role of aquatic food systems which is established as a vital blue economy sector among all stakeholders regardless of their category or geographic scope Aquatic food systems stakeholders are thus navigating a blue economy landscape irrespective of whether they are pursuing their own blue economy ambitions Ultimately the report provides perspectives on the potential role of FAO amid identified blue economy trends focusing on the role of its Blue Transformation Roadmap to advance and strengthen the role of aquatic food systems in a blue economy context and its potential as a pathway for the transformation of aquatic food systems

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