

The Role of Educational Institutions and Businesses in Achieving Sustainable Coastal Development Goals in Quang Binh Province: Current Situation and Policy Implications

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ABSTRACT

Based on a comprehensive examination of theoretical and practical aspects, this study explores the roles of educational institutions and businesses in achieving sustainable coastal economic development in Quang Binh province. Drawing upon the philosophical perspective of economic goals, the research analyzes and evaluates the current situation while proposing policy implications for meaningful and practical development of the coastal economy in Quang Binh. The study provides an overview of the roles of educational institutions and businesses in coastal economic activities, including the key factors influencing sustainable coastal economic development and the impacts of globalization and internationalization on Vietnam's coastal economy. It reflects the specific process of coastal economic development in Quang Binh, highlighting the comparative advantages of the local coastal economy.

Keywords: The roles of educational institutions and businesses, sustainable coastal economic development in Quang Binh province, current policy implications

1. INTRODUCTION

The world is entering a new stage of development, with the trend of increasingly affirming the great importance of the seas and oceans. Scarcity of raw materials and energy leads to frequent and fierce market competition, territorial disputes and national conflicts. "Reach out to the sea, exploit the ocean" [4, p.12] has become a strategic slogan for the whole world. Vietnam is blessed by nature, being a country with a large area of sea and islands in the East Sea with 3260 km of coastline and more than 3000 islands and rocks. According to estimates, the average scale of Vietnam's marine and coastal economy is about 47 - 48% of the country's GDP. The strategy for sustainable development of Vietnam's marine economy until 2030, with a vision to 2045, affirms: "Vietnam must become a strong country in the sea, getting rich from the sea, on the

basis of promoting all potential from the sea, comprehensively develop marine industries with a rich and modern structure, creating a fast, sustainable, highly effective development rate with a long-term vision" [4, p.5]. This is a complete strategic orientation, as well as a clear guiding viewpoint for the current development of Vietnam's marine economy.

Quang Binh province is located on the North Central Coast with a marine exclusive economic zone of more than 20,000 square kilometers, a coastline of 116.04 kilometers and five small coastal islands with a total area of 185 hectares. This is a place with a particularly important position in the economic, social, and national security development strategy for the entire North Central region and it is also the gateway to the sea on the East - West corridor connecting the Trans-Asia road from Northeast Thailand via 12A Highway with international maritime routes through Hon La seaport. Quang Binh's marine economy plays an important role in the province's economic and social development with a strategy to comprehensively develop industries from the marine economy, including: marine minerals, fishing and aquaculture, marine tourism and entertainment, research and education.

However, in the context of the whole world's moving strongly to the sea in the 21st century, the current scale of marine economic development in Quang Binh province is completely not commensurate with the potential and values that the sea brings. Faced with the above actual situation, based on the viewpoint of economic philosophy, analyzing and evaluating the current situation of the role of educational institutions and businesses in implementing the goal of sustainable development of the marine economy, and at the same time providing solutions to develop the marine economy in Quang Binh today is very practical and meaningful. All explanations of the problem are viewed from the perspective of economic philosophy of the researchers.

2. RESEARCH METHOD

Data collection: Data for research are collected through secondary data review and practical summary. A review of secondary data was conducted for studies related to the role of educational institutions and businesses in implementing the goal of sustainable development of the marine economy in Quang Binh province today.

The subject of research is Quang Binh's marine economy, the strategy for comprehensive development of industries from the marine economy, including: marine minerals, fishing and aquaculture, marine tourism and entertainment, research and education. Collecting and analyzing data from research methods: Comparative research method, specific historical synthesis, actual survey and systematic method.

Data processing: Collected data is synthesized and systematized according to theoretical content and analysis of the current state of the research problem. The provided solutions have policy implications on the role of educational institutions and businesses in implementing the goal of sustainable development of the marine economy in Quang Binh province today.

3. FINDINGS

3.1. The role of educational institutions in implementing the goal of sustainable development of the marine economy in Quang Binh province

Viewed from the perspective of economic philosophy in a narrow meaning, marine economy is all economic activities at sea including: Maritime economy (sea transport and seaport services); Seafood (fishing and aquaculture); Offshore oil and gas exploitation; Sea travel; Salt making; Searching and rescuing services; and Island economy. Marine economy is understood in a broad meaning as all economic activities taking place at sea and economic activities directly related to marine exploitation in the coastal strip of land. In the content of the research, to suit the purpose and subject of research, the authors present the marine economy in three main areas: Fishing, farming and seafood processing; Maritime economy; Sea travel.

Referring to the role of educational institutions in implementing the goal of sustainable development of the marine economy in Quang Binh province, it is necessary to study in depth the following issues:

First of all, educational institutions research and establish scientific grounds for improving policies and laws on sustainable development of the marine economy. Moreover, they need to assess the potentials and advantages of natural conditions, resources, ecosystems and marine economic sectors and fields such as: maritime; exploiting, cultivating, and processing aquatic products; renewable energy; marine biopharmacology.

Secondly, educational institutions focus on training and developing high-quality human resources. They build a support mechanism and connect domestic and foreign universities to improve labor quality for marine economic sectors. They also training supports and create conditions for people to change careers, gain new stable jobs, increase income, and create sustainable livelihoods.

Thirdly, educational institutions focus on developing science and technology, protecting the environment and climate change. The control and general monitoring of the marine and island environment in Quang Binh province is implemented annually, contributing to protecting and improving the environment, preserving biodiversity, cultural values, and coastal heritage landscapes, ensuring people's access to the sea; mitigate the impacts of natural disasters, climate

change and rising sea levels on the livelihoods of coastal communities, meeting sustainable development of coastal and island areas of the province.

In addition, educational institutions focus on training and developing local human resources for aquaculture and exploitation. It is necessary to propagate and educate, raise awareness, knowledge and understanding for fishermen about survival skills and adaptation to climate change and rising sea levels. It is also vital to create conditions for coastal people to change jobs from activities that are prone to harming and negatively impacting aquatic resources to protecting, conserving, creating sustainable livelihoods, and increasing income.

Furthermore, educational institutions focus on investing in basic investigation, innovation, exploiting digital technology, assessing the potential and advantages of natural conditions, resources, and inter-regional ecosystems that are valuable for the new marine economy. Complete the establishment and good management of coastal areas and coastal protection corridors in Quang Binh province. Strengthen cooperation and linkages with localities in the region. Enlist the support of international organizations to develop human resources, coastal and marine infrastructure, investigate resources basically, protect the marine environment, prevent and combat natural disasters, and adapt to current climate

It can be said that the marine economy plays an increasingly important role in the national economy. The marine economy has become a driving force to promote the development of industry and other economic sectors because the sea is the gateway to exchange with the world, creating favorable conditions for import and export of goods at low costs. From there, clearly analyze the conditions and potential of natural and social conditions for marine economic development in Quang Binh. Determined to use sea and inland waterways to "effectively exploit existing ports". Call for investment in building Hon La port, upgrading Gianh Port and a number of other ports to serve international and domestic shipping routes. Strengthen the socialization of dredging and clearing estuaries" [3, p. 35].

3.2. The role of businesses in implementing the goal of sustainable development of the marine economy in Quang Binh province

Referring to the role of businesses in implementing the goal of sustainable development of the marine economy in Quang Binh province, it is necessary to study in depth the following issues:

Firstly, it is essential to have policies to attract investment and encourage economic sectors to invest in sustainable development of the marine economy in Quang Binh. Mobilize resources from economic sectors. Socialize investment in infrastructure, transportation, economic zones, and industrial parks of the province. Encourage the development of businesses of all economic sectors and economic corporations operating in production and business activities at sea. Call on

capable and experienced industrial park infrastructure investors to soon complete the infrastructure system of economic zones and industrial parks in coastal areas in a way that attracts investment, especially a source of capital outside the state budget. Especially coastal industrial parks such as: Hon La Economic Zone, Northwest Dong Hoi Industrial Park, Cam Lien Industrial Park, Northwest Quan Hau Industrial Park.

Secondly, it is important to promote the construction of a strong marine economic center, the core of which is Hon La Economic Zone. Developing shipping services, logistics supply chains, and clean energy industry. In particular, planning and investing in the development of coastal urban areas, commercial centers, tourist, entertainment, recreation, resort, and beach tourism areas in Da Nhay, Bo Trach, Quang Phu, Bao Ninh, Nhat Le, Hai Ninh. Building integrated economic zones such as: ecotourism services, resorts, public centers, agricultural production zones, and coastal protection forests.

Thirdly, it is necessary to encourage scientific research, innovation, and entrepreneurship in businesses. Focusing on investing in scientific research, innovation and application of new technology, high technology, clean technology in the marine economy to improve the quality of goods and services to ensure sustainable development.

Fourthly, coastal industries and local governments of Quang Binh province must build an appropriate industry and profession structure that closely combines marine economic development with ensuring national defense and security of the sea and islands and protect the marine environment, avoiding marine pollution. Focusing on cooperation and coordination between training institutions and businesses in the province to support each other in training coordination to meet social requirements.

3.3. Policy implications for implementing the goal of sustainable development of the marine economy in Quang Binh province today

To implement marine economic development, it is necessary to: promote basic coastal survey and planning; mobilize investment capital sources; expand international and regional cooperation with other localities; develop scientific and technological human resources; strengthen the state management apparatus; promote the combination of economy and defense, which can be divided into the following solutions:

3.3.1. Solutions for implementing effective management of marine economic development in Quang Binh province today

Carry out effective management. Quang Binh is striving to be one of the leading provinces in marine economic development in the North Central Coast region. It is especially important to

improve the effectiveness of competent agencies in managing and directing the province's marine economic development. Competent agencies related to marine economic development planning must properly perform their functions and tasks, specifically:

Firstly, the Department of Agriculture and Rural Development is a specialized agency performing the function of State management on: agriculture; forestry; salt karma; seafood; irrigation and rural development. Therefore, it is especially important that the Department must have measures in different periods to prevent and fight floods and storms; safety of agricultural, forestry, aquatic products and salt during the production process until reaching the market.

Secondly, Quang Binh Fisheries Sub-department performs the function of State management of fisheries in the province including: aquaculture, exploitation, processing of aquatic products and protection and development of aquatic resources inland and at sea. It is necessary to devise strategies, development planning, long-term plans, programs and projects on fisheries activities in the province in accordance with the overall socio-economic development plan of the province. It is vital to guide, inspect and organize the implementation of regulations on decentralization of management of fishing vessels, fishing ports, fishing wharves, shore lines, storm shelters of fishing vessels and registration of fishing vessels. Actively inspecting and guiding the production, harvesting, preservation and processing of salt in localities in the province.

Thirdly, Quang Binh Department of Tourism undertakes state management of tourism in general and marine tourism in particular. The Department needs to take measures to protect, restore, exploit and effectively use marine resources. Furthermore, strengthening the development of marine tourism promotion programs to popularise Quang Binh tourism widely throughout the country as well as internationally.

Finally, state agencies related to marine economic fields must associate the marine economic development process with the urban development planning process, industry and product development planning. Building a marine economic strategy needs to clearly demonstrate key and central investment directions. Competent agencies must see the role of science and technology development and high-quality human resource training as the main orientation for the development of all areas of the marine economy, gradually bringing the marine economy develop the provincial potential and strengths.

3.3.2. Solutions for implementing policies to support marine economic development in Quang Binh province today

In recent times, the marine economy of Quang Binh province has achieved significant achievements. However, there is still no marine strategy and specific development programs to fully promote the potential of Quang Binh's marine resources. Therefore, in the process of

developing the marine economy, it is necessary to have policies to support education and training to create momentum for the marine economy to develop smoothly as follows:

Firstly, it is necessary to strongly develop the marine economy so that this strength becomes the key economy of Quang Binh province, especially improving the capacity of offshore seafood fishing closely linked with investment in fishing infrastructure such as fishing ports, ship and boat building facilities and the formation of seafood processing plants.

Secondly, it is essential to promote administrative reform and incentives for fishermen. Leaders of departments should offer many preferential channels for fishermen to borrow capital to expand production, support fishermen to build and buy new fishing boats, replace boat engines, and buy crew insurance and hull insurance.

Thirdly, ensuring safety and security for marine economic activities is also one of the policies to support the development of Quang Binh's marine economy. The Provincial Department of Irrigation and Flood and Storm Prevention needs to strictly follow the motto "Proactively prevent, respond promptly, and overcome urgently and effectively". Safety for fishermen and vehicles operating at sea during the rainy and stormy season needs to be implemented well right from the fishing community. It is necessary to be aware of how to prevent natural disasters, comply with maritime safety requirements, follow the guidance and direction of flood and storm prevention agencies, and mitigate damage caused by natural disasters.

Finally, it is vital to attach importance to developing marine science and technology and training human resources to serve marine economic sectors and fields. The province must soon build mechanisms and policies to attract overseas Vietnamese experts and highly qualified foreign experts to Quang Binh to participate in research, teaching, consulting, and taking on management positions of marine science and technology research.

3.3.3. The solutions focus on regional development and regional linkages to develop the marine economy in Quang Binh province today

In economic development thinking, a very important issue is to link together to develop. If economic activities are based on localities, everyone does their own thing, and economic management follows administrative boundaries, it will be very difficult to develop. Quang Binh province should not develop massively or trivially, but there must be a share and a focus on its main development direction within its role with the entire North Central region.

Firstly, the advantage of Quang Binh province's marine economy is the field of fishing, aquaculture and seafood processing, therefore, linking with neighboring provinces is an important factor to help this field exploit its strengths. Linking in fishing, sharing farming

experiences and seafood processing methods will help provincial leaders as well as businesses not only proactively source raw materials, reduce costs, and create stability for product output but also contribute to increasing product value, creating a closed process from production, processing to product consumption.

Secondly, the potential for marine tourism is very large, so Quang Binh must know how to choose outstanding tourism topics to link with. Promoting more tourism products for the tourism industry, contributing to the most reasonable and effective exploitation of tourism potential.

Thirdly, Quang Binh Port needs to link with ports of neighboring provinces such as Vung Ang Port, Cua Lo Port, Chan May Port... in investigating engineering geology, geodynamics and archaeological geology of sea areas and continental shelves; apply adaptation solutions to minimize the impact of climate change and sea level rise on seaport operations; control environmental pollution around the port, etc... Quang Binh port system is included in the port planning of the entire region, sharing experiences in this new field of marine economy to interact with each other for mutual development.

3.3.4. Solutions for state-owned enterprises to develop the marine economy in Quang Binh province today

Firstly, businesses need to devise specific mechanisms and policies for themselves. In order to have a new development direction which is suitable to actual conditions, state-owned enterprises should not be tied to the old mechanism, but be created conditions for cooperation, foreign affairs, connection, and collaboration of developing models. It is necessary to build a suitable organizational, management and production structure.

Secondly, it is essential to proactively review and adjust long-term and medium-term strategies and set up specific annual production and business plans to ensure a healthy, effective and sustainable financial balance; investing in the application of science and technology and training high-quality human resources will contribute to overcoming limitations in mechanisms, policies, and efficiency of production and business activities.

Finally, it is vital to improve the quality and efficiency of production and business activities which is an extremely important issue for businesses. In the process of participating in production and business activities, especially in the fields of marine economy, improving the quality and efficiency of production and business activities must be given top priority.

3.3.5. Solutions for private enterprises to develop the marine economy in Quang Binh province today

Firstly, private enterprises need to increase the application of new science and technology. Innovation in production and business is extremely necessary for private enterprises. Participating in marine economic activities, private enterprises must always find new production methods and regularly innovate techniques. Only then can large-scale production be created, and even links between production fields and industries.

Secondly, they should develop high-quality human resources. The marine economy is a dynamically developing economic sector, so the quality and quantity of human resources involved in this field must always be improved. From managers and leaders to workers directly involved in production and business, they need to be regularly trained and retrained to meet new requirements.

Thirdly, private enterprises ought to attract domestic and international investment capital. Marine economic sectors, due to their scale and nature, require businesses to have a large sum of capital to be able to sustain. The capital that businesses themselves have is only a part of the capital to maintain business operations. With action programs, specific production and business plans, as well as promotional activities, introducing businesses are used to call for and attract investment capital from outside. Only with a strong capital source can the business's programs and plans operate effectively. The level of investment attraction also shows the production and business capacity of the enterprises.

4. DISCUSSION and CONCLUSION

Quang Binh province focuses on developing the marine economy in five key areas in order of priority: fisheries economy; sea travel; the development of port system, port services and marine transportation; development of economic zones, industrial parks, and coastal urban areas; the development of the industry of building and repairing ships, boats and floating vehicles.

By 2030, Quang Binh will have developed its marine economy in a multi-sectoral direction. Among them, aquaculture and fishing are fundamental, accounting for the largest proportion of the total value created by the marine economy. Gradually concentrated economic zones in coastal areas associated with Hon La seaport are formed, linking marine economic development with marine tourism; well solve social problems in coastal areas; The province strives to bring the marine GDP proportion to over 30% by 2030; double the living standards of coastal people, bringing the income of each coastal resident in the province to 2,500 USD/year.

Quang Binh's marine economy proactively attracts many economic sectors and forces to participate in developing the marine economy. For areas of communes and wards which are adjacent to the sea, the province will fully promote its advantages in geographical location, traffic, attracting investment, labor and developing economic sectors and people's livelihood,

creating dynamic development of the entire region; Striving for the average income per capita in this area to be 1.2 - 1.4 times higher than the average income per capita of the entire province and coastal strip of the country by 2025, and 1.4 - 1.6 times higher than by 2030, gradually narrow the gap between rich and poor. Quang Binh builds and operates non-tariff zones associated with investing in effective exploitation of Hon La port along with existing national highways and border gates to create an important gateway to the East Sea of Southern Laos, Northeast Thailand and the entire Mekong sub-region. Thus, from now until 2030, Quang Binh will continue to build and invest in economic zones, complete approved functional areas and expand them. At the same time, investing in the construction of modern new urban areas with financial, banking, securities, postal and telecommunications services meeting international standards, ensuring the province's marine economic development trend is in line with international standards and consistent with the general trend of the country.

In short, the marine economy plays a very important role in economic and social development as well as enhancing the position of a country, especially in the current period of industrialization, modernization and internationally economic integration. Quang Binh has many opportunities to develop the marine economy, however, due to obstacles in awareness, management, material and technical facilities, etc... , so the exploitation of marine resources is not commensurate with the position and role of the marine economy as well as the favorable opportunities brought by objective and subjective conditions. In this article, the authors have contributed to clarifying theoretical and practical basis of marine economic development; at the same time, investigate and evaluate the reality, thereby confirming achievements and pointing out difficulties and limitations in developing the marine economy in Quang Binh province. More importantly, some solutions are proposed to develop Quang Binh's marine economy in the current period.

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