

Building a Comprehensive Green Free-trade Port with New Concept in Hainan Province: Research on How to Build Free-trade Port with International Depth Space Resource

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Abstract. Many countries in the world banning the sale of fuel vehicle have released their ban schedule, Hainan (Province of China) also released itself as the ban pilot. Resources and environmental pressure led to new energy revolution. 'Depth' in 'depth resources space' is according to resources utilization, divide them into breadth and depth space and stress the 'depth' refers to sustainable resources constantly working through a new interpretation of resources utilization rule, rather than the depth of water. In order to cope with multiple pressure brought about by economy, trade, environment and neo-geopolitics, we should have an anchor to windward. Combing new situation, problem appeared in human society's development, we study to build a new free-trade port (Island) to deal with those pressure. Considering China's national strategy-building Hainan into a free-trade port, this article applies depth space resources theory as scientific basis and put forward some schemes and measures on how to construct a new free-trade port under multi-pressure.

In April 2018, the Central Committee of the Communist Party of China and the State Council announced to build Hainan pilot free-trade zone and free-trade port with Chinese characteristics. The aim of the commission is by 2020, free-trade zone construction work has achieved progress significantly with international openness greatly improved. While by 2025, the quality and benefits of the economy growth both have improved significantly with free-trade port system preliminarily established.

1. Crisis of fossil energy industry's development

In late September, 2017, Five ministries and bureaus, including Ministry of Industry and Information Technology, have published Parallel Management Regulation of Passenger Vehicle's Average Fuel Consumption and New Energy Vehicle Integration [1] through their official internet. This double integration regulation has formulated the required elimination rate of fuel vehicles in 2019 and 2020, officials of MIIT said that this regulation method is just transitional. From the perspective of technology and environment, gradually halting traditional fuel vehicle's production and sale is an inevitable choice.

Since 2016, some countries have declared that in the near future, they will totally ban the sale of traditional fuel vehicles. It is reported that Norway and Holland planned to ban the sale of gasoline and diesel engine vehicles domestically before 2025. Germany has issued to stop selling traditional fuel vehicles from 2030. UK and France also planned to stop selling gasoline and diesel engine vehicles before 2040. India declared to ban selling traditional fuel vehicles in 2030 [2-3]. State of California, US also scheduled to ban selling fuel vehicles in 2030 [4]. The reasons why traditional fuel vehicles would be restricted is that the engine's thermal efficiency is not high enough, with most energy turning into exhausted gases, wasting resources and polluting air.

According to related statements and analysis concerning Xi Jinping's report at 19th CPC, such as China's ecology, green development and development of human destiny, more power will be needed to promote and implement double integration regulation.

Banning the sale of traditional fuel vehicles will be fully implemented and arouse high echoes in related industries. Besides, it will also affect the transportation of crude or refined oil in traditional supply chain. Ban of selling fuel-powered vehicles totally perhaps still has a long way to go because we will need to continue consuming fossil fuels and resources even in new energy age. However, in the next one or two decades, or even shorter period, the rules will bring unneglectable effect on traditional fossil energy industry. Thus we should cast an anchor to windward, response actively and innovatively build new free port with lucid waters and lush mountains.

2. Depth space resources

Depth space resources exploitation, simply speaking, means using sustainable rule brought forward by the new interpretation of resources utilization law and integrating resources utilization and solving the sustainable development and environmental problems in resources utilization. Depth space resources exploitation and utilization has become the most significant and fundamental original power in resources exploitation and utilization.

The breadth of ocean space, solely means the sheer ocean space, from micro-space to entire ocean space, all of which can be called the breadth of ocean space. To a certain degree, ocean exploitation can be understood as space exploitation. Exploitation towards space is also a space development towards new ocean, so breadth space also includes outer space. Breadth space is nearly infinite. The depth of ocean space refers to the development of renewable energy and resources, such as ocean wind energy and solar energy, because these resources are also inexhaustible, with indefinite depth, thus its depth exploitation are nearly indefinite. In the future, the exploitation of renewable energy and resources, such as solar energy, will also include the depth space exploitation. Depth space resources not only existed in ocean and new ocean, on land you can also find renewable energy, such as wind, solar energy as well as bountiful resources. Therefore, on land there also existing depth space resources. In addition, recycling waste steel and petrochemical products can also be summed up as depth space exploitation. Ocean depth space refers to ocean and new ocean depth space, while depth space, apart from ocean and new ocean, also contains depth space on land [5-6].

The natural science, geopolitics and economics all require scientific development. In June, 2014, by referring to the new interpretation of resource utilization rule, the author published a new discipline monograph named Multi-Dimensional Space Resources Subject [5]. The core of this book is dividing resources utilization into breadth and depth space.

To a large degree, breadth and depth space of multi-dimensional space resources are all related to the working form during resources utilization. When using a word to describe their difference, we may say most depth space resources working instantly and directly, while breadth space resources working every 350 million years (using coal as an example) [5]. Bringing forward the time dimension length of resources utilization aimed at quantifying breadth and depth of space resources, just like using a ruler to measure in time dimension of resources essential dynamic. While dividing breadth and depth space resources providing coordinate to measure the length of time dimension.

In the future, the persons who can scientifically and rationally develop and use energy and other resources as needed own the key to harmonious development with nature concerning deplete energy and other resources of nations and human, and meanwhile own the key to peace and own the primary material base necessary for controlling the fate of the world and the human being [7].

Although recently there are still uncertainty and debate over climate change degree among scientists, the Multi-dimensional space resource subject mainly put forward the balance among resource utilization, environmental harmony and the scientific knowledge on the exhaustion of resource utilization.

With human progress and productivity development, traditional developing mode characterized by savage, blind, rugged and cancer cell in law of jungle can no longer suit developing human beings. Multi-dimensional space resource subject has made an innovative, systematic and through research over human progress and the relationship between new productive forces and productive relations.

3. Building a comprehensive green free-trade port with new concept

Building a comprehensive green free-trade port with new concept as well as international depth space resources. Multi-dimensional space resource subject mainly introduces basic theory, bringing forward that building a free port with international depth space will turn from basic theory to applied theory [8].

With the strengthening efforts to ban selling traditional fuel vehicles, future energy economy will gradually transform towards new energy industry, new energy economy, finance and services industry. Depth space resources are renewable and sustainable energy resources. Building free trade port characterized with depth space resources will benefit ecological protection and help construct lucid waters and lush mountains, it will also help explore and implement innovative immigration system that combined international practice and used in new energy, new energy finance, foreign exchange, investment, trade and industrial operation. Grasping the new requirements of China's trade transformation and upgrading, as well as the new trends of international company's division of labor in new energy, taking advantage of free port's preferential policy to improve and support our new energy industry's competitive power, so that we will be able to promote global new energy sustainable industry developing in the direction of trade facilitation and reaching a higher level. We should conform to the future energy development trend and build perfect risk prevention mechanism on traditional energy and new energy resources.

Here, one point need to be noticed, depth space resource is different from new energy because the former has a wider meaning than the latter one, which contains the meaning of renewable and sustainable development. By connecting natural science, geopolitics, economic development and their interaction and connection, depth space resource extend the relationship between human and nature to geopolitics and economic development. Moreover, it includes mutual connections in time dimension [5].

In recent years, China has gain competitive advantage and good momentum in global new energy developing industry competition. According to the results of global top 500 new energy enterprises list in 2016, the number of China's new energy enterprise has significantly increased, with more than 193 domestic enterprises (including the mainland of China, Hong Kong, Macao and Taiwan) entering this list, which makes China ranked number one with a proportion of 38.6%, 27 more than the year 2015 [9-10]. While in 2017, five more enterprise enter this list, with 198 domestic enterprises entered this list, with a proportion of 39.6% and keep China still ranked top one. Certainly, due to excellent industrial foundation and strong innovative ability, western developed countries also possess strong competitive power in new energy industry. Western countries and the largest developing country, China, have mutual cooperation and competition in new energy industry area, they join hands in hands to promote human resources utilization, environmental protection and the prosperity of sustainable activity.

In Guiding Opinions of the CPC Central Committee and the State Council on Supporting Hainan's Comprehensive Deepening of Reform and Opening Up issued on April 11, 2018, it mentioned that the strategic positioning of building Hainan (Province) free-trade zone and Chinese characteristic free trade port was to deepen reform and opening up pilot areas, national ecological civilization experimental area comprehensively [11]. Among which further mentioned that emphasizing through all-round personal development to fully stimulate development vitality and creativity so as to build an open economy with a higher level. We should promote the existing manufacturing industry to be intelligent, green and service oriented, accelerate constructing green industrial system. We should also promote to construct power grid main frame structure and urban/rural power grid intelligent upgrading, carry out intelligent power grid, micro-grids and other demonstration projects. Conducting carbon sequestration pilot of marine ecosystem and studying how to build a green standard system. Support establishing legal compliance in Hainan (Province) Carbon Emission Trading Agency. We should accelerate promoting new energy vehicles, energy-saving and environment-friendly vehicles while prohibiting the sale of traditional fuel vehicles gradually in Hainan Province. Return tranquility, harmony and beauty to nature. The guidance covers a wide range, especially the core content related to building free trade port with international depth space resource and lucid waters and lush mountains. Intelligent power grid and ban traditional fuel vehicle selling seemed not very eye-catching. However, it can replace traditional energy with new energy and bring subversive revolution. New energy economic activities, such as setting up Carbon Emission Trading Agency, signify an important transition from world petroleum finance to new energy finance. Industry transformation will bring exciting opportunity and productivity development for new economic prosperity and staff employment.

With the progress of human society, we should consider the new situation and problems in natural science, geopolitics and economic development and study how to build a new free trade port or island to deal with multiple pressures from environment, resources, economy and trade. It is quite different from building a traditional free trade port previously. How to practice it? Would it succeed? It greatly depends on a practical policy and scientific operation. Lacking ready-made experience in this respect require us conducting careful study, discussion and considering inadequacies frequently and be thoughtfully, only by doing so can we successfully build a new concept, green and comprehensive free-trade port that will promote human civilization progress, which is our main purpose obviously.

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