

# New Energy + Help Rural Revitalization

## -- Take Zhejiang Photovoltaic Village as an Example

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### Abstract

Summarize the results of the field investigation of photovoltaic villages in Zhejiang province, make a general direction prediction for the promotion of the "new energy + village" mode in the whole country, and propose the evidence that the new energy products are applicable to the countryside and will benefit the countryside. To put forward the general conclusions that we studied and thought about the rural revitalization, and combined with the innovative theories we put forward, to contribute our wisdom to the rural revitalization, to make our contribution.

### Keywords

New Energy Sources; Rural Areas; Cooperation; And Rural Reform.

### 1. Innovation Points and Characteristics

The research theme of this project is new energy + helping rural revitalization -- Take Zhejiang Photovoltaic Village as an example, taking the construction of a new business model and management mode as the innovation point, and starting to promote rural revitalization. At the same time, taking Zhejiang Photovoltaic Village as an example, it has obtained theoretical support from successful cases, which provides a reference for rural areas in more areas to realize rural revitalization by relying on new energy.

After studying the successful cases of Zhejiang Photovoltaic Village, we decided to innovate and transform the original rural reform model, and put forward the GEC model, namely the rural reform model of cooperation between the government, enterprises and rural areas. This model is not the past of party members' poverty alleviation funds and appropriations by the state, but the government promotes the cooperation between enterprises and rural areas, enterprises provide funds, use unique rural resources, such as agricultural and industrial land, idle land, and build large-scale resource production areas by combining new energy and rural resources. New energy can be used for enterprises and villagers, and can be sold to other income. Enterprises can rely on the scale of new energy sources for national policy support, tax reduction, and obtain funds. Welfare can be distributed to villagers according to contracts, and villagers have a large income, attracting young people to go home to start businesses, and slowing down the aging of rural agriculture.

We are different from the other villages in terms of the management style. In the past, most rural buildings were done in ground engineering. Managers ordered spraying large white on rural houses, building rural cultural display columns at the village gate, and planting ineffective greenery on both sides of the road. We will, on the basis of learning from the management and operation of Zhejiang photovoltaic village, carry out innovation and transformation. After the scale of new energy + rural characteristic industries is expanded, enterprises can send professionals to assist villagers and jointly manage them. Under the condition of soliciting the consent of the villagers, the village head can transform and beautify the village according to his

own characteristics, build their own civilized characteristics, create new, build tourism, increase employment, and form a large management mode.

This project aims to provide theoretical support for the new energy to promote the rural revitalization, solve the existing problems of the new energy to promote the rural revitalization, and provide useful reference materials for other villages that hope to rely on the new energy to achieve the rural revitalization. The project actively responds to the national call, and truly promotes the rural revitalization.

## **2. Research Objectives**

### **2.1. Solve the Policy Problem of Promoting New Energy in Rural Areas**

Due to the dispersion of biomass energy industry and traditional agriculture, the biomass energy industry cannot form a large industrial chain. Once the short-term policies tend to solar energy and wind energy, the final result will be "urban" light "rural areas", which may further deepen the "dual economic structure", and new energy is difficult to be effectively promoted in rural areas.

### **2.2. Solve the Technical Problems of Large Areas of New Energy in Rural Areas**

Rural areas lack the necessary conditions for promote new energy such as talents, equipment and technology. We encourage college students to actively respond to national policies, return to China to start their own businesses, and encourage technicians to return to their hometown for employment. In terms of the equipment, we need to conquer the rural factories, manufacture the high-tech equipment, or transport the relevant equipment from the city to the village, and use the corresponding technology to protect the equipment and reduce the damage.

### **2.3. New Energy Theory Proposed According to the National Conditions of Rural Development**

The No. of the CPC Central Committee<sup>1</sup> The document urges the whole Party and society to accelerate the modernization of agriculture and rural areas, so that farmers can live a better life. China has a vast territory, and different vary in rural areas. If you want to promote new energy sources in large rural areas, it is necessary to consider which new energy source is suitable for promotion in different rural areas according to local conditions. Western rural suitable for solar and thermal energy; flat terrain, high altitude rural suitable for wind energy. Therefore, the measures to adapt to the local conditions in promoting the rural development of new energy.

### **2.4. Suggestions on the Scientific Planning of New Energy in Rural Development are Put Forward**

The principal contradiction in Chinese society has turned into a contradiction between inadequate development and people's growing demand for a better life and inadequate development, which is reflected in the consumption, technology, business forms, cost, factors, system, supply and demand, infrastructure, ecology and people's livelihood faced by the promotion of new energy in rural areas. In the future promotion of new energy, not only to improve technology, reduce costs, but also to pay attention to improve farmers' enthusiasm for production, reduce the "new energy +" mode of factory to promote ecological pollution, etc., comprehensive scientific planning, reasonable promotion, priority planning, slow and firm, to make the large-scale promotion of new energy in rural areas more smooth.

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### 3. Research Background

New energy, also known as unconventional energy, refers to various forms of energy other than traditional energy. Since the reform and opening up, the new energy industry has achieved rapid development, the application scale has been continuously expanding, the cost has been continuously reduced, the contradiction between consumption and consumption has been significantly alleviated, and the effect of clean substitution has become increasingly significant. Vigorously developing new energy sources, promoting the energy revolution, and building a green and low-carbon energy system have become important breakthroughs in China's energy development in the new era, and are the essential requirements of the new energy security strategy of "Four Major Revolutions and One Major Cooperation".

Since the Renewable Energy Law officially came into effect, the government has issued a series of supporting administrative regulations and regulations to promote the development of new energy, and China's new energy industry has entered the fast track of development. At the end of November 2018, the National Development and Reform Commission and the Energy Administration issued the Notice on the Issuance of the Action Plan for Clean Energy Consumption (2018-2021). On June 25, 2019, Guodian Power "Smart Enterprise Construction Standards of New Energy Regional Companies" was officially released and implemented, filling the gap in the construction standards of smart enterprises in the field of new energy power generation in China. In 2021, the No.1 document of the Central Government, "Opinions on Comprehensively Promoting Rural Revitalization and Accelerating Agricultural and Rural Modernization", pointed out that the priority investment in agricultural and rural development should be strengthened, and agriculture and rural areas should be continued to serve as priority areas in the general public budget. The National Rural Industry Development Plan (2020-2025) points out that policy support should be strengthened and the improvement of policies and measures supported by land, capital and talents, so as to ensure that all policies can be implemented, operational and effective. The Guidance of The State Council on Promoting Rural Industry Revitalization points out that local governments should issue general bonds to support the construction of pure public welfare projects in the field of rural revitalization. We will encourage local governments to issue special bonds for project financing and self-balance of returns, and support the construction of rural public welfare projects that meet the conditions and have certain benefits.

At the Fifth Plenary session of the 19th Central Committee of the CPC Central Committee, the Proposal of the National economic and social development in the 14th annual plan and rural development in the new development stage and promote rural revitalization, and comprehensively promote rural revitalization. By 2020, China has completed the building of a moderately prosperous society in all respects, but some problems in the implementation of the rural revitalization strategy need to be solved. At present, some villages pay too much attention to economic benefits and ignore ecological benefits. There is a deviation in the development concept of "clear water and green mountains are golden mountains and silver mountains", resulting in rural environmental pollution and waste of resources, which we need efficient solutions. Through investigation and research, it is found that "new energy +" has obvious benefits to rural revitalization, and the reasonable combination of new energy and agriculture, animal husbandry, fishery and other industries can promote the development of rural revitalization. Through the full and rational utilization of resources, it can harvest the beautiful ecological environment while developing the economy.

At present, photovoltaic power generation to help rural revitalization has been promoted in some villages in China. Li'ao Village, Longguan Township, Yinzhou District, Ningbo, Qingnan Village, Qinghu Town, Donghai County, Lianyungang City, overlooking Dartou Village, Panfeng

Township, Panan County, make use of the "photovoltaic +" development model to successfully get rid of poverty and enter an all-round well-off society.

#### 4. Technology Roadmap

Technical route refers to the research approach, including the technical means, the specific steps and the methods to solve the research objectives.

The purpose of our research on the "New Energy +" rural revitalization project is to obtain ways and methods for new energy to promote rural revitalization, to achieve ecological benefits while achieving economic benefits, and to practice the development concept of "clear waters and green mountains are golden mountains and silver mountains". After preliminary preparation, data collection, verification and collation, preliminary thematic research and planning, we finally compiled the results of new energy assisted rural revitalization project, in order to contribute to the national rural revitalization strategy.

In the early preparation stage, We look for players from different majors, Looking for teacher instruction, Form the project research team, We mainly understand the national rural revitalization policies, Found that the rural revitalization strategy is being implemented in rural areas across the country, There have been many successful "demonstration villages" in the implementation of rural revitalization, But there are also some rural development difficulties; After the completion of the preliminary preparatory stage, We entered the data collection, verification and collation phase, Using the Internet to collect information on rural revitalization through various aspects, Through verification and sorting, We find that different ways to revitalize each areas, With tourism, featured products and red culture, But all to achieve the modernization of the countryside; In the preliminary thematic research phase, Our preliminary study of the different ways of rural revitalization, Has tracted our attention by studying the "new energy plus" approach, The reasonable complementary combination of new energy and rural industry can bring great benefits to the countryside, To achieve one plus one is greater than two, Harvest rural economic benefits while harvesting rural ecological benefits, Double harvest of economy and environment. In the following stage, we conducted a qualitative, quantitative, positioning and sequential analysis of the relevant research results, selected the best new energy plan to help rural revitalization, and finally determined the plan of "new energy +" to help rural revitalization.

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