

RESEARCH ON THE DEVELOPMENT OF SALT AND SALT INDUSTRY IN HENAN PROVINCE

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Abstract: The article begins with about the present situation of salt chemicals industry in Henan Province and the prime tasks of "the 11th five-year plan". The author then analyzes the main problems and its reasons in salt industry. Finally, the article proposed operational policies to promote the advancement of salt industry, which will realize the scientific progress earnestly according to the concept of scientific development and become the pillar industry in Henan economy.

Key words: The advancement, The salt industry, Newly rise

INTRODUCTION

The salt is not only the necessity in people's lives, but also the raw material of chemical industry and it has direct relation with national economy and the people's livelihood. The salt product was widely used in agriculture, chemical industry, spinning and weaving, printing, papermaking, glass, fuel, metallurgy, medicine, war industry, environmental protection, building materials, and daily life and so on, which accounts for much in national economy and social development. Rock salt in our province are rich in resources, and it has obvious geographical superiority as well as superior necessary cooperation conditions and outstanding investment environment. Therefore, it is our mission to practice the scientific development concept, to develop salt mine resources "as fast as good", and to promote diligently the salt industry in Henan province to speed up Henan economy.

1 THE PRESENT SITUATION AND

DEVELOPMENT ACHIEVEMENTS ABOUT SALT AND SALT INDUSTRY IN HENAN PROVINCE

1.1 The present situation about salt and salt industry

The Henan salt and the salt industry undergo has experienced constructions for many year, and already formed preponderant industries covering extensive fields and various types. According to the preliminary statistics, in 2008, Henan province produced alkali 1,350,000 tons, soda 850,000 tons (excluding natural soda and polyvinyl-chloride), with a consumption of salt of 3.3 million tons. It realizes the sales revenue of 6.729 billion Yuan with a yearly increase of about 34%. It submits the taxes 450 million Yuan with a yearly average increase of about 36%.

In technological transformations and energy conservation and environmental protection aspect, all levels of government and

its functional departments worked enthusiastically with the salt industry enterprise. We had completed a series of innovation achievements with intellectual property rights, and also eliminated a series of enterprises with huge pollution and outdated technology and equipment. In practice, the salt enterprises insisted transformation of tradition technology to innovative technology. It developed 3 kinds of fine chemical product to consume alkali chlorine. Overall technology and equipment showed obvious enhancement. For example, through the cooperation of Haohua astronavigation chemical industry limited company and the Japanese sun joint-stock company, the Chinese first ionic membrane test base was established, which promotes the salt industry technology advancement. At the same time, the salt industry enterprises insisted sustainable development as well as the improvement of ecological environment. It raised the utilization efficiency of salt resources and coordinated the unification of resources and environment supporting capacity. In the saving and environmental protection aspects, we reduced the product synthesis energy consumption, and achieve comprehensive energy consumption of per ton product: 1.4 tons of standard coal for diaphragm process, 1.2 tons of ionic membrane. 9000 mega joules for Hou's process. The water utilization efficiency increases 10%, the sewage withdrawal decreases 10%, the waste gas management increase 5%, the solid waste comprehensive utilization rate increases 10%, and the utilization ratio of resources increases 20%.

1.2 The prime tasks in recent years

1.2.1 All levels of the government took it seriously, attracted investments, and approved big projects.

In recent years, all levels of government made full use of the resources superiority, and seized opportunity of the development, brought in foreign capitals and invested outside, they positively attracted foreign investment and approved big project. Jiaozuo, Puyang, Luohe, Pingdingshan and so on attached much attention on the development of

salt and salt industry. They acted according to the market conditions, deepened reform, and preferential policy to attract investments, which had made encouraging progress. Chinese Haohua group invested salt project in Jiaozuo, Jiyuan. Beijing Qineng group invested in Wuyang County for salt chemical project. Once these projects completed, it will promote Henan to become an important production base of salt and salty industry.

1.2.2 Accelerate adjustment of industry structure, and form the scale superiority

In recent years, the salt and the salt industry enterprises of entire province worked according to industrial policy and the market demand. We have developed a series of salt product consumed by soda, caustic soda and chloride industries, which lengthened the production chain and increased added value of salt products. Chinese God Horse Chlorine Company, Kaifeng Chemical industry Research institute etc. insisted to unify the new product development with technological innovations in order to get long term advancement and get market share and the customer's satisfaction.

1.2.3 Aiming at development targets, designing the plan layout

According to the general goals and developing strategies of the Henan salt and salt industry, considering resources allocation and supporting conditions, the salt administration bureau cooperated with local governments of different level to work out layout of salt and salt industry base from long term interests. For example, Pingdingshan pays special attention to the existing enterprise's technological transformations and increases produce capacity, at the same time they also pays special attention to the salt chemical project implementation progress. It aims to produce soda of 2 million tons/year in 2010, acoustic soda of 2,65million tons/year, which will finally form the salt-making industrial base. The Luohe Municipal government serves positively Henan golden earth chemical Co.Ltd, Henan Zhongjing chemical Co.Ltd, Wuyang Zhongyuan chemical Co.Ltd and so on. The Luohe's goal

is the construction of producing soda 300 thousand tons/year, caustic soda 450 thousand tons/year, synthetic ammonia 300 thousand tons/year, ammonium chloride thousand tons/year, melamine 40 thousand tons/year, which finally forms the salt industrial base.

1.2.4 Regarding a master line, completing two unions

In practice, all levels of government and related enterprises worked closely on the development of salt-making and salt chemical industry, and also adjusted industry structure and increased research investment. They had achieved "the union of salt and alkaloid, the union of energy and electricity". The leaders of Pingdingshan municipal government thought that: Salt and the salt industry are highly dependent industries. The salt chemical industry's important products are soda and caustic soda. We must develop these two products to achieve balance and further to process in dept. The leaders of Pingdingshan coal group also thought that: the two alkali productions must consume massive electrical energies. Compared with energy and electricity supplied separately, cooperation of energy and electricity will increase thermal efficiency by 3%, the central heat supply enhance thermal efficiency by 50% compared to dispersed heating. Therefore, excellent enterprises must have thermoelectricity installment, which not only ensures the electricity supply but also provides energy for the industrial production.

1.2.5 Paying great attention to the advancement of technology, insisting the name brand strategy

All levels of government and enterprise of salt and salt industry takes technology advancement as the top priority. They cultivate the superiority product as the key points, and take technical innovations in industry and product as the goal. They actively apply new technology, new craft and new equipment to improve the technology and equipment. Furthermore, they promote the application of innovative technologies and fine chemical products of salt in order to convert technology to application and change

science superiority to industry superiority. At the same time, they implement the name brand strategy of high-quality goods. They aimed to upgrade the popularity and quality and to win market share. In this aspect, the chlorine alkali company of Gloden horse group, Jiyuan hengtong salt Co.Ltd. and so on had done effective explore and achieved tangible progress p.

2 ANALYSIS ON THE EXISTING SUBJECTS AND ITS REASONS.

2.1 The rock salt resources is developed insufficiently, and has not gotten rid of the situation of small, disperse, weak pattern

The Henan rock salt resources reserves were rich, which provides the basic requirements to develop the salt and the salt industry. In recent years, Henan had developed with certain progress, but it still had some gap with other provinces and cities and even with the rise of central China. This situation was caused by the following reasons: First, we didn't renew the idea of reform and open up. Second, steps of developing are too slow, the humanist idea is not very reliable. Opportunities to develop salt and salt industry had not been held promptly. All of those caused Henan didn't get rid of the situation of small, disperse, weak and slow, let alone a new force suddenly rises and scale development.

2.2 Salt mine resources are mined disorderly, and the implementation of plan was not carries out thoroughly.

Some local authorities eagerly develop resources. In actual operation, their consciousness of scientific progress is not strong, and the idea of circulation economy is not very explicit, which causes disorder development of salt mine resources and new project of not comprehensive development. Also, some government and enterprises (newly built two alkali enterprises) lacks comprehensive analysis of the environment of competition (e.g. the sale of liquid caustic soda have the problem about market radius, especially the regional characteristic is quite obvious). Expansion speed is excessively

quick. The government and the enterprise had blindness in development

2.3 Enterprise size is small, and the integration speed is slow

At the end of 2007, document of the national Development and Planning Commission stipulated that: project scale of new caustic soda and the PVC must be more than 200 thousand tons/year. But Henan has 16 caustic soda enterprises, and three of them has the scale of 100 thousand tons/year enterprises. Henan's output of caustic soda is 1/2 of Jiangsu, 1/3 of Shandong. In 2008, the entire output of caustic soda is only 1.35 million tons, which account for 8% of national output. The small and medium-sized enterprises are excessive, and the product cost is high, and the integration speed is slow.

2.4 Influence of element of production is immense, and the progress of technological innovation is slow

Two alkali's production and its sale rely heavily on the element of raw materials and energy. The raw salt is the primary material for two alkali's production, which accounts for 17% of the cost. Although Henan is rich in salt mine resources, but due to the degree of liquid salt development is low, the salt price was not stable in recent years. Caustic soda consumes much energy, which accounts for 60% of total cost in domestic while for 30%. The prices of electric power, the raw coal and the raw salt affected the production of salt and its sale, which made the cost of two alkali costs stable. The small and medium-sized enterprise is short of funds for technological transformations, the technological talents of high level, which caused the slow development of technology innovation.

2.5 Business management does not complete, and new product development is of skin-deep

As a result of historical reasons, the salt-making and the salt industry subordinates to the different government departments. The business management had not moved toward regularity. After the withdraw of provincial

administration, the salt corporations was free from administration and random development. In 2005, the provincial government requests the salt bureau to formulate "the 15th development plan" for salt and the salt industry, which has no clear instructions on the development of salt industry. At present, development of salt industry and the two alkali industry are not appropriately allocated, which cannot display the resources superiority and overall benefit is low. In Henan, development progress of new products is slow with salt product series of about 30 types of alkali, soda, hydrochloric acid, liquid chlorine, polyvinyl-chloride, calcium hypochlorite, chlorobenzene and so on, while the domestic market had 150 types, overseas nearly 1000 types, most of which are fine chemical products.

3 THE SPECIAL OPERATIONAL POLICY MEASURES ON THE DEVELOPMENT OF SALT AND SALT INDUSTRIAL

3.1 Taking the "Plan" of Henan Province as blueprint, and implementing it to practice.

Henan takes seriously on the development of uses of salt mine resources. They regard the salt and the salt industry as the superiority industry. All levels of government and the related functional departments must look at the overall situation from concepts of scientific progress, and rationally develop the salt mine resources. We must transform the resources superiority to favorable economic conditions, and work earnestly to make Henan into a strong province in salt and salt industry. At the same time, we had to guarantee the implementation of "plan" through measures relative policy guidance, market operation, and legal restraints. For the newly built project, we must organize and distribute them properly in order to avoid waste in resources, human resources and finance and even blind competition between enterprises. We have to instruct them to healthy development. The two alkali enterprises should also consider fully on the market, raw materials and the engineering factors, and develop the alkali, the chlorine, the hydrogen derivative product reasonably.

They had to strive for completing the industrial chain of "the resources - product - renewable resource". We must take the road of circulation economy.

3.2 Strengthening the business management, perfecting the services structure

Salty and the salt industry are highly interrelated industries. The development speed of salt is decided by that of salt industry. At the same time, the salt industry also relies on the salt resources. In order to realize a new rise for the development of salt industry, we must improve the organizations, strengthens the business management, and perfects the services structure. Therefore, we suggested that the provincial salt industry development leading group (office belongs to provincial salt administration bureau) is formed as soon as possible, which will strengthen the salt mine resources management. It will work out medium and long-term development plan for the salt-making and the salt industry, and also have to supervise the implementation of the plan. It also had to coordinate the problems in the medium and long-term development in the salt industry and provide overall service for them. Only ensured by the government policies and measures can the salt resources can be utilized efficiently and rationally. At the same time, they also had to keep efficient communication, evaluation and coordination among salt enterprises.

3.3 Functional departments pay special attention to develop and protect the resources

In order to protect the salt mine resources and ensure the sustainable development, we suggested that the provincial government and the related functional departments work out regulations about the resource exploring, mining designing and production management and so on. The regulations must specify instructions on production and standard management, which will provide a legal basis for the salt enterprises. All levels of government must carry out "Mineral resource Law" firmly. They have to handle properly the relation between the mineral resources and the urban planning development, and also have to

protect the salt mine resources, which will safeguard salt and the salt industry development. The salt-making and salt industry should be planned to be integrated and planned as soon as possible in accord with national industrial policy. The enterprises also have to cooperate with others for sustainable development.

3.4 Enhancing the industrial concentration degree and the strengthening industrial competitiveness

We should establish the salt chemicals ICBC system. The project have or will be built should follow the standard of environmental protection, energy consumption quality specification and so on. Resting on "Contents of Government Standard And Investment plan table" in the "Decision on Reform of Investment Organization by State Council" we have to prevent the low level building of redundant project firmly. Related functional departments of government must strengthen supervision on enterprise investment, regardless of its source of funds, scale and sales. The salt chemical projects must set up a backup in provincial Development and Planning Commission. Any project that violates policy stipulation will not be permitted. Investment department of all levels of government should be responsible for inspection and supervision. Those projects that do not conform to relevant industrial policies as well as those that do not been approved legally should be stop immediately. Relevant enterprises and personnel should bear the responsibility.

3.5 Speeding up the reorganization and cultivating a large enterprise group

All levels of government and relevant functional departments must follow the policy and the market rule, using administrative and the legal measures, and adjusting enterprise organizational structure to speed up the development for large-scale salt and salt industry enterprise group. The government must support positively the salt corporations such as China salt Haolong Co.Ltd, Pingdingshan Coal group, Yongmei group, Golden horse group, Jinshan chemical

industry group, Jiaozuo Haohua astronavigation group and so on. We strives to build 2 to 3 megaton-class salt industry enterprise groups, which will form the industrial base in central China.

3.6 Strengthening the energy conservation and environmental protection to guarantee a sustainable development

The salt industry is of high energy consumption and the pollution. In the process of exploring salt mine resources, we must coordinate the energy and environment. It requests to pay special attention to three points: First, in the mining resources process, it requests to enhance the rate of comprehensive utilization and recycling of the resources. Second, in the using resources process, it requests to raise the resources using efficiency. Third, in the waste discharging process, it requests to deal with waste properly and comprehensive utilization of the waste water and gas. The enterprise needs to insist sustainable development and rational development for the benefits of next generation.

3.7 Completing technological innovation system and speeding up the industrialization process

All levels of government and the related functional departments must support that the large and middle scale salt industry enterprise to establish the technology development organization, and engineering research center in the key enterprise. It prefers to constructs engineering technology center for the chlorine alkali and union alkali industry. We must organize and utilize the technical plan on tackling key technology problems, new product development and the technological innovation and so on. In view of problems faced in the salt industry, we have to work earnestly to conquer them. We must encourage the scientific research institute and the university technical personnel to participate in the industrial cooperation research, and to cooperate to builds the technology research center. We also pay attention to technology acquisition positively to speed up the industrialization process.