Analysis of Economic Management Problems and Development Trend of Jixi Coal Enterprises Based on Big Data under Coal Economy Situation

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Abstract. With the continuous improvement of China's national economy, the economic management based on big data technology of Jixi coal enterprises is no longer a very rare topic. How to provide support for the sustainable development of economic management based on big data technology of coal enterprises and develop economic benefits is an urgent problem for coal enterprises at present. Starting with some problems encountered in the economic management based on big data technology of coal enterprises, this paper puts forward feasible Suggestions for the sustainable development and efficiency improvement of enterprise economic management based on big data technology under the new normal economy, for the reference of readers.

Keywords: Jixi Coal Enterprise, Informatization, Big Data Technology, Sustainable Development

1. Introduction

With the continuous development of science and technology in our country, the trend of informationization and sustainable development guides and influences the development of our country's economy and society on the whole[1]. In recent years, the scale of Jixi coal enterprises has gradually increased, and more and more projects have been undertaken by road and railway enterprises. The increase in the span of economic management based on big data technology has led to the very blocked information channels, and the traditional enterprise economic management based on big data technology system and mode cannot make timely and effective responses to the changes of market economy. Therefore, if we want to find sustainable development characteristics in market competition, we need to use the sustainable development mode of enterprise economic management
based on big data technology under the new normal economy to improve the overall economic management based on big data technology level and competitiveness of enterprises from the following four aspects, so as to improve the development efficiency of enterprises\(^2\).

2. Economic management based on big data technology status of Jixi coal enterprises under the new coal situation

2.1. Change traditional ideas

In order to realize the unity of understanding within the enterprise, the leadership of Jixi coal enterprise first needs to unify the understanding and renew the concept under the background of the new normal of economy. The informatization construction leadership group headed by the general manager shall be established. The general manager or other leaders shall take the lead personally to make overall planning for the internal economic management based on big data technology and construction of the enterprise. The "wheel" model shown in Figure 1 can effectively reflect the development process of Jixi coal enterprise:

![Figure 1. "Wheel" model in economic management based on big data technology of Jixi coal enterprises](image)

As shown in chart 1, as shown in the "wheel" model for the sustainable development of the enterprise, is based on the planning and design of coal economy before the project, the corresponding departments by the enterprise for a variety of methods and techniques, for members of the organization's objectives, requirements for evaluation of the system, so as to determine the enterprise internal training and change should be involved in. The training of employees in enterprises is an important way to change traditional ideas\(^3\). The demand analysis of training is to investigate which departments within enterprises need training and why in a more scientific and reasonable way, and to conduct in-depth exploration and research. Training demand survey has strong guidance, and is also an effective premise to determine training objectives, plans and courses. It is the primary link of modern training activities. Training needs analysis is based on the overall process of training activities, as well as program design, evaluation plan preparation and activity implementation.

2.2. Straighten out the relationship between economic management based on big data technology

In the process of updating the economic management based on big data technology process, it is
necessary to readjust and design the functions of departments and posts. For the relevant departments within the enterprise organization, the posts can be re-customized, and the responsibility scope can be scientifically and reasonably divided. Within the responsibility scope, the economic management based on big data technology personnel can be given the maximum extent of participation in decision-making and economic management based on big data technology decision-making authority. When adjusting the internal economic management based on big data technology structure of an enterprise, it can be studied from the macro and micro perspectives. In the macro perspective, the organizational structure of an enterprise refines and improves the coal economy project and implementation system by establishing the internal system of the enterprise and developing the economic management based on big data technology mechanism efficiently. Macroeconomic management based on big data technology includes economic management based on big data technology system, policies and responsibilities of economic management based on big data technology personnel, economic management based on big data technology assessment, cost economic management based on big data technology, performance assessment and other aspects. For the macro staff economic management based on big data technology system, the courses to be carried out should also include the assessment of professional technology, marketing assessment and other characteristics of enterprise development related to the ability to improve and assessment[4].

3. Implement economic management based on big data technology process and business process reengineering

3.1. Conduct a comprehensive functional and efficiency analysis of the original economic management based on big data technology process

In this aspect, we should first organize relevant departments within the enterprise, draw a clear flow chart of economic management based on big data technology of the enterprise, carry out an overall analysis of the economic management based on big data technology process, and seek for the breakthrough point of updating and creating the economic management based on big data technology process; Secondly, the existing economic management based on big data technology process should be deeply analyzed to find out the loopholes and problems, so as to find out the causes of economic management based on big data technology costs[5]. Analyze the different problems in the organization structure. In addition also shall be based on the trend of the development of the market and the actual demand, enterprise development for the business process of process reengineering, the key link to the project for market development in the process of coal economy of repositioning and sorting, the key link to and for economic management based on big data technology process of a detailed analysis and research, so as to realize the flattening of enterprise economic management based on big data technology development.

3.2. Scientific design of economic management based on big data technology process to achieve job process reengineering

On the basis of the analysis and research of the traditional internal economic management based on big data technology process, the existing economic management based on big data technology process should be designed in a standardized way, so as to realize the integration and automation of the economic management based on big data technology process, as shown in Figure 2 below.
Figure 2. The overall process of economic management based on big data technology of Jixi Coal enterprise based on big data

As shown in Figure 2, a series of processes are optimized into parallel processes, and refined economic management based on big data technology can realize the reengineering and optimization of post processes. In this way, the information economy management platform of Jixi coal enterprise can be further integrated application, and the optimization of enterprise economic management based on big data technology process can be realized more procedurally.

Within the enterprise to carry out full investigation, and after the opinions from the departments, can be combined with the demand of the economic management based on big data technology, more streamlined, formulate Jixi coal enterprise economy management information flow, and further can request each department, the project management team should be strict accordance with the requirements of enterprise issued by the economic management based on big data technology information, timely and accurately according to the provisions of the project of coal economic channels, implement enterprise economic management based on big data technology information of the longitudinal and transverse comparison.

3.3. Take the project as the cost center and comprehensively promote the informatization of project economic management based on big data technology

Coal economy project is the basis for the survival of Jixi coal enterprises and the basic source of profits, and Jixi coal enterprises should pay more attention to reform and innovation in the economic management based on big data technology of the coal economy project Department, and adopt a more efficient way to carry out the economic management based on big data technology of the department under the background of the new normal economy.

First of all, the project department should confirm the budget of economic management based on big data technology information. When formulating the training plan and the overall process of the work, the budget for resource development of Jixi coal enterprises should also be evaluated. Comprehensive development is meaningful only on the premise that it is supported by practical funds. The budget for project construction and inspection is generally made by the decision-making level of the enterprise, but HR needs to make relevant "Suggestions" to the decision-making level, explain what aspects the enterprise should carry out the relevant coal economy, and carry out detailed analysis on the long-term and short-term returns of the input. Generally speaking, the project budget difference of enterprises in different fields may be large; secondly, the evaluation data of internal employees should be analyzed. The evaluation system of the enterprise needs to be determined from the actual discussion between the decision-makers and employees. If the enterprise cannot establish a perfect evaluation system, it needs to optimize the evaluation index for employees, so as to obtain the main
data information of "employee demand"[6]. Finally, we should comprehensively promote the construction of enterprise project economic management based on big data technology informatization, and standardize the economic management based on big data technology of the development of Jixi coal enterprises on the whole.

4. Conclusion

Overall, Jixi coal enterprises in our country in recent years gradually increased, the size of road railway companies to undertake projects more and more, the increase of economic management based on big data technology span causes information channel is not smooth, within the enterprise to carry out full investigation, and after the opinions from the departments, can be combined with the demand of the economic management based on big data technology, more streamlined, formulate Jixi coal enterprise economy management information process; According to the trend of market development and the actual needs of enterprise development, the key links in the business process should be re-engineered and innovated.

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