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Evaluation Index and Concrete Method of Electric Power Technology Economy

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ABSTRACT. *The current level of development of the entire society is constantly accelerating. It is under this premise that power technology has been improved to a large extent. Power technology is more important to the current development of the entire society. The more important it is. Therefore, in order to enable the entire power technology to better strengthen the speed of social development and at the same time meet the actual needs of the society for the development of the power system, it is necessary to continuously carry out the economic evaluation and technological transformation of the power technology. Scientific economic evaluation of power technology will effectively avoid the emergence of unreasonable power utilization systems and, to a large extent, an excellent cost saving. Therefore, this article will start to analyze the power technology and economic evaluation indicators and specific methods, in order to provide references for relevant personnel.*

KEYWORDS: *Electric Power Technology Evaluation Index Scientific Method Concept Research*

1. Introduction

As we all know, the importance of electric power technology to the current social development of our country is self-evident. It can essentially promote the development of the national economy in a healthy and orderly direction. Therefore, this also clearly shows that in the actual process among them, relevant power system staff should comprehensively increase their attention to power technology and economic evaluation indicators and specific methods. Only in this way can they truly and effectively promote the long-term development of the entire social economy. The economic evaluation of power technology is not only the actual demand for the development of the power industry, but also an important manifestation of the development of the entire era[1-3].

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2. The Concept of Power Technology Economic Evaluation

If people in the industry want to effectively and efficiently recognize the indicators and specific methods of power technology and economic evaluation, the first thing they need to do is to fully and efficiently understand the actual concept of power technology and economic evaluation. Under normal circumstances, the economic evaluation of power technology is mainly divided into two aspects. The first aspect is that its value can be scientifically measured in the form of currency units, specifically, the obvious benefits. The second aspect is that monetary value cannot be used to intuitively evaluate the overall technical and economic value benefits. This form can also be called invisible benefits. In this process, the corresponding obvious benefits can often be divided into two aspects: increased revenue and cost savings. The actual project construction process often contains various forms of benefits. In other words, in the whole process, there are both obvious benefits and hidden benefits. Therefore, for power economic construction projects, this situation is also true, that is, in the process of power economic construction projects, both hidden and obvious benefits coexist at the same time. Although the benefits of both aspects exist, it is divided into the construction process of each individual project, and the main benefit goals need to be established separately, because the evaluation of the power technology and economy will be scientific and reliable[4].

3. Discussion and Analysis of Methods for Scientific Evaluation of Power Technology and Economic Evaluation Index

A comprehensive evaluation of the power economic construction from the perspective of value mainly refers to the practical evaluation of the power construction project's plans and methods during the operation time of the entire power project to fully determine its overall value Whether it is in a high state or not, it will finally have a very clear assessment of the method of the entire power economy construction, which is the essential concept of value perspective evaluation. According to the actual evaluation work experience, the general method of power economic construction mainly includes the main values of these aspects, specifically, the net present value, net annual value, and net final value. Therefore, the corresponding value perspective evaluation method will also carry out specific analysis from these aspects, so as to scientifically and effectively judge whether the value of the power economic construction project is high. However, in the evaluation of power technology and economy from the perspective of value, the current entire system process is often only based on a specific evaluation. This will cause the overall evaluation of the entire evaluation to be ignored, and it will not be possible. Scientifically and comprehensively carry out a reasonable evaluation and trial of the entire power project, so the majority of power department staff should pay attention to this[5-7].

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4. Develop the Evaluation of Power Technology and Economic Indicators from the Perspective of Time

The concept of time perspective mainly indicates that in the process of launching power technology and economic evaluation, scientific evaluation and comparison of the rate of investment recovery of the entire power construction project are carried out. The specific measure is that when the staff of the electric power department use this method to carry out the corresponding evaluation work, the investment and mortgage of the power project should be evaluated at the initial stage, and the whole process needs to be carried out in conjunction with the required time. Evaluation to determine the pros and cons of this project. In this process, the investment payback period is often an important measure reflecting the level of power technology construction work. If the investment recovery time is too long, the investor’s control will become weaker, and project risks will eventually be formed, which has a huge impact on the development of the power economy. Similarly, the staff of the electric power department should clearly understand the meaning of the word efficiency. The economic evaluation of electric power from the perspective of efficiency mainly refers to the comprehensive evaluation of the use efficiency of power projects. The evaluation standard is efficiency. To be more specific, it is to carry out the actual assessment work from the internal rate of return, investment profit and tax rate, investment profit rate and static investment income, etc., and the links listed above are all necessary for this assessment. In this way, the power technology and economy can be evaluated and tested in an all-round way from the perspective of efficiency. From the perspective of efficiency, the most reasonable evaluation plan can be better evaluated, because relevant industry professionals can comprehensively analyze all aspects of the entire project and conduct strict comparison studies.

The efficiency of all aspects of the project is high and low, and the plan with the largest comprehensive efficiency value in all aspects is selected, because the plan with the largest comprehensive efficiency value is the truly scientific and effective plan. When a scientific and reasonable project plan is used to carry out the economic evaluation work, it can be increased. The efficiency of a large overall project can also better save and utilize existing capital.

5. Conclusion

Through the analysis of this article, we can see that only through correct analysis and evaluation can the economic indicators of power technology be evaluated well, and can also lay a solid foundation for technological innovation and reform. Therefore, in the actual operation process, the personnel in the power sector should pay attention to the comprehensive evaluation of the power technology and economy. Only in this way can the final power technology and economic indicators show scientific accuracy, and ultimately increase the overall project efficiency. Save and utilize existing capital better.

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