

# **Construction of Sustainable Management Evaluation Index System for Extra Large Power Grid Enterprises**

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**Abstract.** To establish a sustainable management evaluation index system for large-scale power grid enterprises with "four dimensions, 15 first level indicators, and 48 second level indicators" for the evaluation system in dynamic evaluation and feedback, and transform it into an evaluation system suitable for provincial companies based on their functional positioning and business characteristics. Firstly, the construction ideas and principles of the evaluation system were clarified. Secondly, a company level sustainability management evaluation index system has been constructed and proposed. Thirdly, a sustainable management evaluation index system for provincial companies has been constructed and proposed.

**Keywords:** ESG, Extra Large Power Grid Enterprise, Index System, Sustainable Management.

# 1 Introduction

Sustainable development is a global topic of common concern and pursuit. From the sustainable development actions of the United Nations to the practices of various countries, sustainable development is constantly advancing globally<sup>[1][2]</sup>. China has also accelerated the deployment and promotion of sustainable development as a major strategy. Large power grid enterprises undertake the basic mission of ensuring safe, economic, clean, and sustainable power supply, and play a major role in promoting sustainable economic and social development. However, facing the opportunities and challenges of sustainable development, as well as the complex and ever-changing external and internal situations, promoting sustainable management has become an inevitable choice and internal demand for actively adapting to changes in the situation and achieving high-quality development. Therefore, this article proposes an evaluation index system for sustainable management of large-scale power grid enterprises to guide relevant practices<sup>[3]</sup>.

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### 2 Construction ideas and principles of evaluation index system

#### 2.1 Ideas

Following the forefront of international management, guided by the 17 Sustainable Development Goals of the United Nations, and closely aligned with the company's strategic goal of being an internationally leading energy internet enterprise with Chinese characteristics, and following the laws of sustainable development of the company, we will construct a relevant sustainability management evaluation index system to promote the in-depth development of the company's sustainability management and achieve coordinated development with the economy, society, and environment.

#### 2.2 Principles

Three basical principles:

Firstly, the system is comprehensive. The evaluation indicators for sustainable development of a company should systematically and comprehensively reflect the company's own development and its economic, social, environmental, and other impacts.

The second is to highlight the key points. In the setting of specific indicators, it is necessary to focus on the long-term, and focus on selecting or proposing key indicators that can reflect the concept of sustainable development in enterprise development<sup>[4][5]</sup>.

Thirdly, it is practical and feasible. Based on the United Nations Sustainable Development Indicators (SDGs), the selection of indicators is mainly based on reports or documents recognized by company leaders. At the same time, the difficulty of quantifying indicators and the availability of data should be considered, and main and comprehensive indicators should be selected as much as possible to ensure that information is available, calculations are feasible, and conclusions are credible<sup>[6]</sup>.

Three combinations:

One is the combination of process indicators and outcome indicators. Sustainable development is not only an end, but also a process. The evaluation indicators should not only have static indicators that reflect the results, but also dynamic indicators that reflect the process, such as the possibility of setting relevant growth rate indicators.

The second is the combination of qualitative and quantitative indicators. The sustainable development evaluation indicators of the company should be quantified as much as possible to quantitatively evaluate the development status. For some indicators that are difficult to quantify and of significant significance, qualitative indicators can be used to describe them.

The third is the combination of general indicators and characteristic indicators. The evaluation indicators should be based on the universal United Nations Sustainable Development Indicators (SDGs), combining characteristic indicators such as company strategic objectives, "world-class" demonstration enterprises, and company planning indicators.

# 3 Company level evaluation index system

#### 3.1 Evaluation dimension

Based on the evaluation purpose, determine the evaluation dimension according to the following principles:

One is to guide the company's development to adhere to the "triple bottom line" and promote the coordinated development of the company with the economy, society, and environment. Sustainable development, as a global issue, requires enterprises to develop today without sacrificing tomorrow's development, and to adhere to the triple bottom line of economy, society, and environment. Therefore, the evaluation index system is first divided into three dimensions: economic benefits, social benefits, and environmental benefits brought by the company's development<sup>[7]</sup>.

The second is to guide companies to strengthen their emphasis on ESG (Environmental, Social, and Corporate Governance) and promote sustainable development from the perspective of corporate governance. Therefore, the evaluation index system for sustainable development management of the company not only considers economic, social, and environmental benefits, but also adds dimensions of corporate governance to guide the company to strengthen its emphasis on ESG and promote sustainable development.

Therefore, the sustainability management evaluation index system of the company is divided into four dimensions: economic benefits, social benefits, environmental benefits, and corporate governance benefits. Among them, the economic benefit dimension is mainly used to evaluate the effectiveness of sustainable development from the economic value brought by the company's development; The social benefit dimension is mainly used to evaluate the effectiveness of sustainable development in terms of the social value or impact brought by the company's development; The environmental benefit dimension is used to evaluate the effectiveness of sustainable development; The environmental benefit dimension is used to evaluate the effectiveness of sustainable development; the company's development; The dimension of corporate governance is mainly used to evaluate the effectiveness from the perspective of corporate governance is mainly used to evaluate the effectiveness from the perspective of corporate governance is from the perspective of sustainable development of enterprises from the perspective of corporate governance.

#### 3.2 Specific indicator settings

Under each evaluation dimension, guided by the United Nations SDGs, the specific settings of corresponding primary indicators and their subordinate secondary indicators are carried out, mainly referring to indicators such as company strategic goals, company development planning.

Firstly, the economic benefits dimension is divided into two primary indicators: business status and business potential. Among them, the economic benefits of sustainable management are mainly measured by indicators that reflect profitability, debt paying ability, and production efficiency. Three secondary indicators, including EBITDA profit before interest, tax, depreciation, and amortization, asset liability ratio, and employee labor productivity, are specifically selected; The business potential consists of two secondary indicators: net return on assets and growth rate of operating revenue.

Secondly, the social benefits dimension is divided into six primary indicators, including quality service, employee growth, social livelihood, government relations, business relations, and international influence. Among them, quality service includes five secondary indicators, including inter provincial and inter regional transmission capacity, customer scale, power quality, power supply reliability, and "access to electricity"; There are three secondary indicators for employee growth: employee career development, employee turnover rate, and equal employment; There are five secondary indicators for social and livelihood development, including East West assistance, employment promotion, external donations, poverty alleviation, and community relations; There are two secondary indicators for government relations, namely the completion of central decision-making and deployment, and serving local governments; The business relationship has four secondary indicators, including supply chain management, equipment sharing, anti unfair competition, and partner responsibility fulfillment; International influence includes three secondary indicators: international standard participation, international credit rating, and the Global Top 500 Most Valuable Brands.

Thirdly, the environmental benefits dimension is divided into four primary indicators: reducing emissions, promoting environmental friendliness, protecting biodiversity, and mitigating climate change. Among them, reducing emissions includes four secondary indicators: reducing gas emissions, reducing solid waste emissions, recycling and utilization rate of waste materials, and the proportion of investment in environmental protection facilities; Promote environmental friendliness by establishing three secondary indicators: environmental impact assessment coverage rate of planned projects, utilization rate of environmentally friendly equipment, and eco-friendly design and construction; The protection of biodiversity includes three secondary indicators: impact on forest area, impact on animal habitats, and impact on the number of biological species; There are three secondary indicators for mitigating climate change, including the consumption of clean energy to reduce emissions, the reduction of line loss to reduce emissions, and the reduction of electricity substitution emissions<sup>[9]</sup>.

Fourthly, the dimensions of corporate governance are divided into three primary indicators: governance capability, innovative development, and business development. Among them, governance capacity is specifically divided into three secondary indicators: compliance with business operations, risk management level, and modern corporate governance; There are two secondary indicators for innovation and development, including the intensity of research (R&D) funding investment and the status of major scientific and technological awards; Business development includes three secondary indicators: the development scale of emerging industries, the proportion of emerging industry revenue, and the proportion of international business profits.

As a result, a company level sustainable development management evaluation index system consisting of "four dimensions, 15 primary indicators, and 48 secondary indicators" has been formed, as shown in Table 1. The scoring of relevant qualitative indicators is provided by the expert panel.

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| Serial<br>Number | Dimension         | Level 1 Indicators  | Level 2 Indicators                                       | Weight |
|------------------|-------------------|---------------------|--|--------|
| 1                |                   |                     | EBITDA   | 2.5%   |
| 2                |                   | Performance         | Leverage   | 2.5%   |
| 3                | Economic Benefits |                     | Labor Productivity                                       | 2%     |
| 4                |                   |                     | ROE  | 2.5%   |
| 5                |                   | Potential           | Operating Revenue Growth Rate                            | 2.5%   |
| 6                |                   |                     | Cross Provincial and Regional Transmis-<br>sion Capacity | 2%     |
| 7                |                   |                     | Scale of Customers                                       | 2%     |
| 8                |                   | Service Quality     | Electricity Quality                                      | 2%     |
| 9                |                   |                     | Power supply reliability                                 | 2%     |
| 10               |                   |                     | Access to Power  | 2%     |
| 11               |                   |                     | Employee Career Development                              | 2%     |
| 12               |                   | Career              | Employee Turnover Rate                                   | 2%     |
| 13               |                   |                     | Employment Equality                                      | 2%     |
| 14               |                   |                     | East-West Support  | 2%     |
| 15               |                   |                     | Employment   | 2%     |
| 16               |                   | Society             | External Donations                                       | 2%     |
| 17               | Social Benefits   |                     | Poverty Alleviation                                      | 2%     |
| 18               |                   |                     | Community Relation                                       | 2%     |
| 19               |                   | Government Relation | Accomplishment of Central Committee<br>Tasks             | 2%     |
| 20               |                   |                     | Local Government Service                                 | 2%     |
| 21               |                   |                     | Supply Chain Management                                  | 2%     |
| 22               |                   |                     | Facility Share   | 2%     |
| 23               |                   | Business Relation   | Anti Unfair Competition                                  | 2%     |
| 24               |                   |                     | Partnership  | 2%     |
| 25               |                   |                     | International Standard Participation                     | 2%     |
| 26               |                   | International Rela- | International Credit Rating                              | 2%     |
| 27               |                   | tion                | Global Top 500 Most Valuable Brands                      | 2%     |
| 28               |                   |                     | Gas Emission Reduction                                   | 2%     |
| 29               |                   |                     | Liquor Emission Reduction                                | 2%     |
| 30               |                   | Emission Reduction  | Solid Emission Reduction                                 | 2%     |
| 31               |                   |                     | Eco-friendly Investment Ratio                            | 2%     |
| 32               | Environmental     | Environment Friend- | Planning Projects Environmental Assess-<br>ment Coverage | 2%     |
| 33               | Benefits          | liness              | Eco-friendly Equipments Coverage                         | 2%     |
| 34               |                   |                     | Eco-friendly Construction                                | 2%     |
| 35               |                   |                     | Forest Coverage  | 2%     |
| 36               |                   | Biodiversity        | Animal Habitat   | 2%     |
| 37               |                   |                     | Bio Species  | 2%     |

# Table 1. Corporate Level Index System

| 38 |                  |                           | Clean Energy Consume                    | 2% |
|----|------------------|---------------------------|---|----|
| 39 |                  | Climate Change            | Climate Change Line Loss Reduction      |    |
| 40 |                  |                           | Electricity Substitution                | 2% |
| 41 |                  |                           | Compliance                              | 2% |
| 42 |                  | Governance Ability        | Risk Management                         | 2% |
| 43 |                  |                           | Modern Corporation Governance           | 2% |
| 44 | Corporation Gov- |                           | R&D Intensity                           | 2% |
| 45 | ernance          | Innovation                | Important Science and Technology Prizes | 2% |
| 46 |                  |                           | Emerging Industry Scale                 | 2% |
| 47 |                  | <b>Business Promotion</b> | Emerging Industry Revenue Ratio         | 2% |
| 48 |                  |                           | International Business Profit Ratio     | 2% |

### 4 Evaluation Index System of Provincial Power Grid Company

Based on the characteristics of the transmission and distribution business of the provincial power grid company, and guided by the company level indicator system, this study aims to construct a sustainable management indicator system suitable for the provincial power grid company, in order to drive the company's power grid business to achieve high-quality sustainable development.

#### 4.1 Transformation ideas

Under the guidance of the company level sustainability management evaluation indicator system, based on the functional positioning and business characteristics of the provincial power grid company, as well as the construction principles of sustainability management indicators, the specific indicators proposed in the company level indicator system are transformed into corresponding indicators for the provincial company, and the transformed indicators are further subdivided at the provincial company level to form the sustainability management evaluation indicator system for provincial power grid enterprises<sup>[10]</sup>.

The sustainability management evaluation indicators of the company are converted into evaluation indicators of the provincial power grid company, and there are three situations:

One is to directly include relevant indicators. For relevant indicators that not only meet the functional positioning and business characteristics of the provincial power grid company, but also meet the principles of sustainable management indicator setting, they will be directly included in the sustainable management evaluation indicator system of the provincial company. For example, 14 primary indicators such as "business status" and "business potential" are directly included, while 16 secondary indicators such as "EBITDA before interest, tax, depreciation, and amortization" and "asset liability ratio" are directly included.

The second is to further refine and decompose relevant indicators. Decompose and refine the indicators that meet the functional positioning and business characteristics of the provincial power grid company and can be further refined based on the actual business situation of the provincial company into three-level indicators that can accurately reflect its core meaning, have strong comparability, highlight practicality, and have a significant guiding effect. Incorporate them into the sustainability management evaluation index system of the provincial company. For example, by quantifying indicators with poor comparability such as "power quality" and decomposing them into indicators such as "urban comprehensive voltage qualification rate" and "rural comprehensive voltage qualification rate"; Decompose indicators such as "obtaining electricity" into indicators with clear core meaning and prominent guiding role, such as "electricity processing link", "electricity processing time", "cost", "power supply reliability and transparency of electricity fee index".

Thirdly, relevant indicators are not included. For sustainability management evaluation indicators applicable to the company as a whole or other sectors, but not in line with the functional positioning and business characteristics of the provincial company, they will not be included in the sustainable management evaluation indicator system of the provincial company. For example, the primary indicator "International Relation" and its three secondary indicators, including "International Standard Participation", "International Credit Rating", and "Global Top 500 Most Valuable Brands", are not included in the provincial company evaluation system; Three secondary indicators, including "inter provincial and inter regional transmission capacity", "completion of central decision-making and deployment", and "proportion of international business profits", are not included.

### 4.2 Specific indicators

According to the above indicator transformation and setting ideas, the sustainability management evaluation index system of the provincial power grid company retains 14 first level indicators that are the same as the company level evaluation indicators in four dimensions: economic benefits, social benefits, environmental benefits, and corporate governance benefits, as the "International Relationship" in the first level indicators is removed; Due to the removal of six secondary indicators such as "International Standard Participation", "International Credit Rating", "Global Top 500 Most Valuable Brands", "Cross Provincial and Regional Transmission Capacity", "Accomplishment of Central Committee Tasks", and "International Business Profit Ratio", 42 secondary indicators that are the same as company level evaluation indicators are retained in Table 2.

| Serial<br>Number | Dimension         | Level 1<br>Indicators | Level 2 Indicators            | Level 3 Indicators |
|------------------|-------------------|-----------------------|-------------------------------|--------------------|
| 1                |                   |                       | EBITDA                        |                    |
| 2                |                   | Performance           | Leverage                      |                    |
| 3                | Economic Benefits |                       | Labor Productivity            |                    |
| 4                |                   |                       | ROE                           |                    |
| 5                |                   | Potential             | Operating Revenue Growth Rate |                    |

Table 2. Province Level Index System

| 6  |                 |                        | Scale of Customers          |  |
|----|-----------------|------------------------|-----------------------------|--|
| 7  |                 |                        |                             | Urban Comprehensive Voltage Qualification Rate |
| 8  |                 |                        | Electricity Quality         | Rural Comprehensive Voltage Qualification Rate |
| 9  |                 |                        |                             | Average Power Outage Time for Urban Users      |
| 10 |                 | Service                | Power supply reliability    | Average Power Outage Time for Rural Users      |
| 11 |                 | Quality                |                             | Access Procedure                               |
| 12 |                 |                        |                             | Access Time                                    |
| 13 |                 |                        | Access to Power             | Access Fee                                     |
| 14 |                 |                        |                             | Power Reliability and Cost Transparency        |
| 15 |                 |                        |                             | Professional Passage                           |
| 16 |                 |                        | Employee Career Development | Trained Rate                                   |
| 17 |                 |                        | Employee Turnover Rate      |  |
| 18 |                 | Career                 |                             | Female Staff Rate                              |
| 19 |                 |                        |                             | Female Manager Rate                            |
| 20 |                 |                        | Employment Equality         | Minority Rate                                  |
| 21 |                 |                        |                             | Competition for Positions Ratio                |
| 22 |                 |                        |                             | East-West Support Investment                   |
| 23 |                 |                        | East-West Support           | East-West Support Staff                        |
| 24 |                 |                        |                             | Fresh Graduates Recruited                      |
| 25 | Social Benefits | Society                | Employment                  | Veterans Recruited                             |
| 26 |                 |                        |                             | Disabled Recruited                             |
| 27 |                 |                        |                             | Donation Fund                                  |
| 28 |                 |                        | External Donations          | Donation Times                                 |
| 29 |                 |                        | Poverty Alleviation         | Fund for Poverty Alleviation                   |
| 30 |                 |                        |                             | Poverty Alleviation Programs                   |
| 31 |                 |                        |                             | Access for Population Unpowered                |
| 32 |                 |                        | Community Relation          | Community Funded                               |
| 33 |                 |                        |                             | Community Programs Funded                      |
| 34 |                 |                        |                             | Schools Funded                                 |
| 35 |                 |                        |                             | Students Funded                                |
| 36 |                 |                        |                             | Rural Grid Investment                          |
| 37 |                 |                        |                             | Legal Cases                                    |
| 51 |                 | Government<br>Relation | Local Government Service    | Integration of Grid Development and Local      |
| 38 |                 |                        |                             | Planning                                       |
| 40 |                 |                        |                             | Response to Local Policies                     |
| 41 |                 |                        |                             | Local Policies Involvement                     |
| 42 |                 |                        |                             | Qualified Suppliers                            |
| 43 |                 | Business<br>Relation   |                             | Supplier Reverse Rating                        |
| 44 |                 |                        | Supply Chain Management     | Blacklisted Sumpliers                          |
|    |                 |                        |                             | Application of Modern Smart Supply Chain       |
| 45 |                 |                        |                             | Sceparios                                      |
| 46 |                 |                        |                             | Sharing Device Firms                           |
| 47 |                 |                        | Facility Share              | Sharing Device Quantity                        |

| 48 |                        |                   |                                  | Device Sharing Rate                           |
|----|------------------------|-------------------|----------------------------------|---|
| 49 |                        |                   |                                  | Device Sharing Mechanism                      |
|    |                        |                   |                                  | Code of Conduct for Fair Competition of       |
| 50 |                        |                   |                                  | Suppliers                                     |
| 51 |                        |                   |                                  | Connected Transaction                         |
| 52 |                        |                   | Anti Unfair Competition          | Improper Disclosure of Commercial Information |
|    |                        |                   |                                  | to Suppliers                                  |
| 53 |                        |                   |                                  | Code of Conduct Against Commercial Bribery    |
| 54 |                        |                   |                                  | Commercial Bribery Cases                      |
| 55 |                        |                   |                                  | Disclosure of Electricity Trading Information |
| 56 |                        |                   | Partnership                      | Completion of Goods Contract                  |
| 57 |                        |                   |                                  | Completion of Service Contract                |
| 58 |                        |                   |                                  | Recovery of SF <sub>6</sub>                   |
| 59 |                        |                   | Gas Emission Reduction           | Reduction of SO <sub>2</sub> Emissions        |
| 60 |                        |                   |                                  | Reduction of NOx Emissions                    |
| 61 |                        |                   | Liquor Emission Reduction        | Disposal of Mineral Oil                       |
| 62 |                        | Emission          |                                  | Recycling of Transformer Oil                  |
| 63 |                        | Reduction         |                                  | Disposal of Waste Lead-acid Batteries         |
| 64 |                        | Reduction         |                                  | Disposal of Insulators                        |
| 65 |                        |                   | Solid Emission Reduction         | Disposal of Cable Cover Plates                |
| 66 |                        |                   |                                  | Disposal of Cement Poles                      |
| 67 |                        |                   |                                  | Recycling of Waste                            |
| 68 |                        |                   | Eco-friendly Investment Ratio    |   |
| 69 | Environmental Benefits |                   | Planning Projects Environmental  |   |
|    |                        | Environment       | Assessment Coverage              |   |
| 70 |                        | Friendliness      | Eco-friendly Equipments Coverage |   |
| 71 |                        |                   | Eco-friendly Construction        |   |
| 72 |                        |                   | Forest Coverage                  | Trees Planted                                 |
| 73 |                        |                   |                                  | Forest Decreased                              |
| 74 |                        | Biodiversity      | Animal Habitat                   | Impacted Critical Habitats                    |
| 75 |                        |                   |                                  | Preserved Critical Habitats                   |
| 76 |                        |                   | Bio Species                      | Increased Species                             |
| 77 |                        |                   |                                  | Reduced Species                               |
| 78 |                        | Climate<br>Change | Clean Energy Consume             |   |
| 79 |                        |                   | Line Loss Reduction              |   |
| 80 |                        |                   | Electricity Substitution         |   |
| 81 |                        |                   |                                  | Law and Regulation Defiance                   |
| 82 |                        |                   | Compliance                       | Fines Amount                                  |
| 83 | Corporation Govern-    | Governance        |                                  | Regulator Reward                              |
| 84 | ance                   | Ability           | <br>                             | Policy Defiance                               |
| 85 |                        | Ability           | Risk Management                  | Risk Control System Construction              |
| 86 |                        |                   |                                  | Risk Control Level                            |
| 87 |                        |                   | Modern Corporation Governance    | Completeness of Modern Corporate Governance   |

| 88 |            |  | Performance of Modern Corporate Governance |
|----|------------|--|--|
| 89 |            |  | Adaptability of Group Control              |
| 90 |            | R&D Intensity                              |  |
| 91 | Innovation | Important Science and Technology<br>Prizes |  |
| 92 |            |  | Ev Charger Access Scale                    |
| 93 | Business   | Emerging Industry Scale                    | Comprehensive Energy Service Scale         |
| 94 | Promotion  |  | EV Service Revenue Ratio                   |
| 95 |            | Emerging Industry Revenue Ratio            | Comprehensive Energy Service Revenue Ratio |

### 5 Conclusion

To establish a sustainable management evaluation index system for large-scale power grid enterprises with "four dimensions, 15 first level indicators, and 48 second level indicators" for the evaluation system in dynamic evaluation and feedback, and transform it into an evaluation system suitable for provincial companies based on their functional positioning and business characteristics. Firstly, the construction ideas and principles of the evaluation system were clarified. Secondly, a company level sustainability management evaluation index system has been constructed and proposed. Thirdly, a sustainable management evaluation index system for provincial companies has been constructed and proposed.

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