

The Evaluation of the Environmental Carrying Capacity of Chinese Geological Resources

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DESCRIPTION

Since 2010, the China Geological Survey has run a number of initiatives to assess the carrying capabilities of the country's natural resources and the environment in order to aid in the creation of the "Outline of National Territorial Planning (2016–2030)". The technical techniques for evaluating local geological resources and environmental carrying capacity have advanced during the last eight years. At the national, pilot province, and pilot counties (cities) levels, a number of accomplishments have also been made in the evaluation of geological resources and environmental carrying capacity. The natural resource environmental system and its connection to the socio-economic system serve as the primary research objects in the suggested "Resource and Environmental Carrying Coordination Theory."

The geologists did an analysis of the interaction between the socio-economic system and the natural resource environmental system bearing backdrop. Methods for resource environmental carrying capacity evaluation, monitoring, and early warning were subsequently developed. It is crucial to take steps to increase the carrying capacity of environmental systems, natural resource systems, and social and economic systems.

The carrying capacity idea has been used to address significant resource and environmental issues facing society ever since the 1960s, against the backdrop of the global resource and environmental crises. Numerous branches that have concentrated on carrying capacity at both the resource and environmental levels have been developed based on the research objects, research content, and application fields, such as the of study land resource carrying capacity, water resource carrying capacity, ecological resource carrying capacity, and overall environmental carrying capacity.

The history of China's Geological Resources and Environmental Carrying Capacity (GRECC) is relatively short. A whole theory has not yet developed, and there is no established national-

regional- provincial-county (city) scale evaluation procedure. As a result, evaluation findings are still qualitative, and study findings are still not ready for usage in real-world contexts.

The theory necessary to coordinate the socioeconomic system and the environmental system of natural resources. The basis for determining the objectives for social and economic development is the advantages and drawbacks of the environmental endowment conditions for natural resources. This method emphasises how the systematic and all-encompassing character of the resource environment and human actions interact.

The establishment of a resource and environmental carrying capacity evaluation indicator system makes use of several data collection methods, including field surveys, statistical analysis, remote sensing interpretation, and more. Then, at various stages, this thorough assessment of the historical background, current carrying capacity of natural resource endowments, and environmental conditions is carried out. A single factor evaluation and a thorough evaluation are the two categories of evaluation levels.

By establishing a monitoring network and working system for the hierarchical and sub-factors, a monitoring and early warning indicator system for resource and environmental carrying capacity serves the objective of resource and environmental carrying capacity monitoring and early warning indicators. Then, suggestions for control measures for an assessment of the performance of ecological civilization are made on the basis of science. This will give a scientific foundation for enhancing an ecological civilization's system of performance assessment and accountability.

The evaluation findings are modified for the industrial structure, regional functional positioning, and a target area for resource and environmental carrying capacity monitoring and early warning. Finally, there is a need to gradually establish coordination between the natural resources and environmental systems and the socioeconomic system.

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