

Research on energy storage in the field of ecological civilization construction

What is Ecological Civilization Construction (ECC)?

Ecological Civilization Construction (ECC), a Chinese solution toward sustainable development, is tailored to China's unique national conditions (He et al., 2022) and serves as China's commitment to global sustainable development (Ye et al., 2022).

What is Ecological Civilization Construction?

Ecological civilization construction is a gradual advancement process under the "Five in One" overall layout of China's national strategy. Thus, the evaluation of EC construction is essential and should be updated gradually with the process.

How effective is China's Ecological Civilization Construction?

Established an evaluation approach based on target correlation and coupling coordination degrees for EC construction. Effectiveness of China's ecological civilization construction has been improved steadily from 2006 to 2017. Results show that national EC strategies such as "Five in one" overall layout play active role in EC construction.

What is the performance level of Ecological Civilization Construction?

Performance level of ecological civilization construction (7) $T = a U_1 + v U_2 + g U_3$ In the formula, $a, v,$ and g represent the weights of the three subsystems: economic and social development, environmental quality improvement, and resource and energy utilization. 3.4. Coupling coordination model

How to evaluate Ecological Civilization Construction?

The existing research on the evaluation of ecological civilization construction mainly focuses on the static and horizontal comparison of the construction levels at provincial and municipal levels. The main purposes of these indicator systems are to examine and facilitate the local EC construction.

How to achieve the construction target of ecological civilization in 2020?

To achieve the construction target of ecological civilization in 2020 on time, the annual growth rate of target correlation between 2018 and 2020 should reach 14.74%. Fig. 1. The growth rate of target correlation degree of ecological civilization construction system in China from 2007 to 2017. Fig. 2.

Practices and research on ecological civilization are mainly in China and has primarily focused on the field of sustainable development (Zhang, 2017), especially in eco-industrial parks. ... and Silver" (i.e. economic development). As early as 2011, Jiangsu Province implemented six major actions towards ecological civilization construction ...

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Eco-economy construction: In this paper, the level of per capita GDP, disposable income of urban residents, disposable income of rural residents, the proportion of tertiary industries, water consumption per unit of GDP and ...

After the industrial civilization, it comes to a stage of higher level civilization--ecological civilization. Environmental protection is the major ...

To minimize subjective factors and overcome certain objective limitations in weight determination, this study employs the entropy weighting method to assess China's ecological ...

Beyond scientific questions of carbon storage, issues of forestry and land use more broadly elicit deeper cultural debates over preserving natural ecosystems versus engineering them anew.

Since the mid-20th century, with the rapid increase in population and urbanization, a series of ecological and environmental problems have arisen, such as the uncontrolled spread of construction land, habitat quality degradation and landscape fragmentation (Han et al., 2015, He et al., 2014, Lei et al., 2016), the global sustainable development is facing huge risks and ...

The concept of ecological civilization, or eco-civilization (shengtai wenming), may still sound obscure to readers unfamiliar with Chinese political discourse and civilization campaigns the official English translation of then President Hu Jintao's speech for the 18th Party Congress in 2012, the Chinese term "shengtai wenming" was even translated as ...

There are obvious ecological benefits of a hybrid energy system (HES) with its advantages of energy resources cascade utilization and multi-energy supply. With the ...

Political principles guiding the "Construction of an Ecological Civilization." At the top, Eco-Civilization is represented as a new stage of civilizational development.

RQ1: How does China's ecological civilization influence green innovation resilience? RQ2: What are the mechanisms through which ecological civilization influences ...

Ecological civilization is an important paradigm proposed by China in the context of growing local environmental challenges. The application of ecological civilization may have a spillover effect on the globe. To understand ...

A large number of greenhouse gases cause the global temperature to rise. To maintain the ecological balance, governments of various countries have decided to carry out emission reduction actions. ... In the field of

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technology research, 32,462 SCI articles with the subject word "Energy Storage" in the "Web of Science" core database have ...

The field of science, technology and society (STS) features interdisciplinarity that integrates social and cultural perspectives in science and technology studies [1]. The basic constituents of STS research (society and culture) underscore the importance of epistemological diversity, guaranteed by the involvement of not only a variety of actors but also different ...

From risk management to civilization building Environmental sociology in China is "well afoot" (Zinda, Li, and Liu 2018, 868), with the country's quantitative, qualitative, and conceptual contributions to the field mounting (Li 2019). Despite these recent develop-ments, China's early encounters with environmental .

The remainder of this paper is organized as follows: the second part is a literature review and critical assessment; the third part is the construction of the research design and framework of the theoretical mechanism; the fourth part is the empirical analysis and discussion of the econometric model; the fifth part is the robustness test; the last part is the main ...

The goal underlying the construction of ecological civilization (CEC) is to raise this form to the height of green development (Magdoff 2011; Wei et al. 2011), and for future generations to "enjoy the cool" and "plant trees" (Liu 2008; Lu et al. ...

Ecological civilization has emerged as an innovative form of civilization in China, and sustainable development has been widely recognized as a globally leading development model. These two concepts are closely related. The international English literature focuses on hot topics in the field of sustainable development such as climate change, urbanization, ...

This article gives a brief account of the meaning, characteristics and origin of ecological civilization, an analysis of the positive impacts of ecological civilization construction on low-carbon economy, and proposes specific recommendations for constructing ecological civilization to develop low-carbon economy in China: compile "Planning Outline" and ...

The 18th National Congress of the Communist Party of China proposed to place the construction of ecological civilization in a prominent position and form an overall layout of the "five-in-one" approach for economic construction, political construction, cultural construction, social construction, and ecological civilization construction.

China has inherited and developed Iring Fetscher's (1978) concept of ecological civilization. Cultural research on the ecological civilization of Chinese society helps choose a road map for late-developing countries. The postmodern society upholds multiculturalism, and the Chinese context makes it logically possible for China to form a culture different from the ...

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This seems to explain why there is a wave of ecological civilization construction in China. In this context, China needs to adjust its strategy and make some changes, including focusing on the quality of urbanization and ...

Ecological security pattern (ESP), grounded in the interaction between landscape patterns and ecological processes, aims to manage ecological processes through science-based planning, preserving landscape integrity and biodiversity, and securing ongoing ecosystem services (Peng et al., 2017). Thus, ESP construction serves as a crucial strategy for balancing ...

Ecological civilization is a foundation of China's socialist civilization system. In the process of ecological civilization construction, mankind should follow a pattern of harmonious development between human beings, nature and society, establish the valuable view on life and nature, and realize a shift to the ecological value (Pamela, 2017).

The concept of ecological civilization (shengtai wenming) has been taken up by the Chinese government as a key political discourse and guiding philosophy for the country's unique brand of environmentalism (Gare, 2012, Hansen et al., 2018, Lo, 2020a, Pan, 2016). Xi Jinping gave ecological civilization a prominent place in the constitution, which cemented the ...

Based on comprehensive analysis of the goal, task, essence, path, key and guarantee of the construction of ecological civilization, the following key points of the construction were brought forth ...

Compared to the research of Wang et al. (2019) based on material flow accounting, total resource and energy sources consumption showed a similar growth trend, but energy ...

It shows a tangible and multi-dimensional process and China's ecological civilization construction over recent years, combining analysis of the cases of China's ecological civilization construction. ... He has been long engaged in ...

Ecological civilization is an advanced form after industrial civilization. Improving China's ecological civilization system will provide developing countries with experience and guidance. The study is dedicated to determining the path dependence characteristics of ecological civilization construction to promote regional sustainable development. This paper estimates ...

In the report of the 19th National Congress of the Communist Party of China, it is clearly proposed that it is necessary to adhere to the harmonious coexistence between man ...

The escalating ecological pressure and its negative impacts worldwide have become a focal point of international concern. Based on figures released by the Global Footprint Network (GFN), Earth Overshoot

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Day 1 in 2023 was pushed forward to August 2nd (Wackernagel and Lin, 2023), indicating that humanity exhausted the planet's annual resource budget in less ...

Under a particular context of China" eco-civilization construction in the New Era after the 18th national congress of CPC, an interesting question is that the discourse of socialist eco ...

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