

Is the carbon storage of Beijing-Tianjin-Hebei region inertial development scenario?

The results showed that the carbon storage of Beijing-Tianjin-Hebei region from 2030 to 2060 was ranked as inertial development scenario> ecological protection scenario > farmland protection scenario.

What is the energy demand in Beijing-Tianjin-Hebei region?

In terms of energy demand,the energy demand in the whole region is increasing quickly due to the fast industrialization and urbanization. In the BAU scenario,the energy demand of the Beijing-Tianjin-Hebei region continues to grow from 234 Mtce in 2020 to 416 Mtce in 2035,with an average annual growth rate of 3.91%.

What is the spatial distribution of carbon storage in Beijing-Tianjin-Hebei region?

The main conclusions were as follows: During 1990-2020,the spatial distribution of carbon storage in Beijing-Tianjin-Hebei region shows a pattern of 'high in northeast-southwest region and low in southeast-northwest region'. The carbon storage in Beijing-Tianjin-Hebei region during 1990-2020 showed a decreasing trend.

Does cultivated land affect carbon storage in Beijing-Tianjin-Hebei region?

The results showed that from 1990 to 2020,the overall carbon storage in the Beijing-Tianjin-Hebei region showed a decreasing trend. This change trend of carbon storage was significantly related to the change characteristics of cultivated land.

How will Beijing and Tianjin change their energy structure?

In specific,Beijing will be inclined to the use of electricity,heat,and natural gas,while Tianjin and Hebei will gradually transform their coal-based energy structure to electricity and natural gas in line with the " de-coal" policy (PRC 2019).

Does Beijing-Tianjin-Hebei have an industrial sector?

Although existing studies mainly focus on giving policy recommendations for different regions,there is almost no study that has explored on the industrial sector in the Beijing-Tianjin-Hebei region in China.

As the largest developing country, China's economic boom has been accompanied by rapid urbanization. The Beijing-Tianjin-Hebei (BTH) city cluster on the north of North China Plain consists of Beijing municipality, Tianjin municipality and Hebei Province, covering an area of 216,000 km² with population exceeding

Exploring the spatial and temporal dynamic changes in ecosystem service functions and trade-off/synergistic relationships over a long time series in the Beijing-Tianjin-Hebei region is of great practical significance for regional high-quality development. Taking the Beijing-Tianjin-Hebei region as the research object, PLUS was used ...

The construction of Energy Internet is an important measure to strengthen the coordination of green energy development in Beijing-Tianjin-Hebei region and promote the development of renewable energy.

The results show that the shallow geothermal energy in the Beijing-Tianjin-Hebei Plain can meet the heating and cooling demand of 6×10^8 m² of buildings, equivalent to 1.15×10^7 t of standard coal, thus reducing carbon dioxide emissions by 2.73×10^7 t and reducing sulfur dioxide emissions by 1.95×10^5 t.

The results showed that the carbon storage of Beijing-Tianjin-Hebei region from 2030 to 2060 was ranked as inertial development scenario > ecological protection scenario > ...

In 2020, during the 75th United Nations General Assembly, China proposed the goal of "achieving a carbon peak by 2030 and achieving carbon neutrality by 2060". The Beijing-Tianjin-Hebei region is the largest carbon emission metropolitan area in China. Its energy consumption and carbon emission status means the Beijing-Tianjin-Hebei region shoulders ...

Owing to rapid urbanization, the Beijing-Tianjin-Hebei region in China faces considerable urban heat island (UHI) effects, which can be mitigated by blue-green space construction. In this study, we used multi-source remote sensing products and the InVEST model's urban cooling module to analyze the spatiotemporal changes in blue-green space ...

This study investigates the different impacts of coordinated development in the Beijing-Tianjin-Hebei (BTH) region on industrial energy and pollution intensities based on the difference-in-difference (DID) method and ...

The construction of Energy Internet is an important measure to strengthen the coordination of green energy development in Beijing-Tianjin-Hebei region and promote the development of renewable energy. Beijing, Tianjin, and Hebei have issued a lot of policy documents related to the Energy Internet during the 13th Five-Year Plan period and at the ...

This paper analyzes the reality and feasibility of Beijing Tianjin Hebei integration, mainly discusses the influencing factors of Beijing Tianjin Hebei cluster on regional economic integration based on SDM model, and carries ...

The Beijing-Tianjin-Hebei region boasts rich geothermal resources and new achievements have been made in the exploration and development of geothermal resources in this region based on previous ...

With the energy consumption statistic data of transformation and total final consumption in Beijing, Tianjin and Hebei from 2001 to 2019 obtained from the China Energy Statistical Yearbook, regional and provincial energy consumption carbon emissions were calculated using the IPCC emission factor approach and were then plotted in Fig. 3.

As an important clean and renewable energy, geothermal energy boasts huge reserves. Scholars have carried out extensive research on the background and assessment of geothermal resources in the Beijing-Tianjin-Hebei region and obtained valuable basic data since Si-guang Li advocated for the development and utilization of geothermal energy in China ...

Gravity Recovery and Climate Experiment (GRACE)-derived groundwater storage anomalies (GWSA) have been used to highlight groundwater depletion in regional aquifer systems worldwide. However, the use of GRACE products in smaller areas is limited owing to the coarse spatial resolution of the data product. This study utilized a dynamic downscaling method to ...

Research on the impact of Beijing-Tianjin-Hebei electric power and thermal power industry on haze pollution. ... blur the visual field and cause deterioration in ... energy storage and electric vehicle charging and discharging facilities as well as plug-and-play, flexible access and withdrawal on the distribution side, and promote the ...

The coordinated division of labor and cooperation among Tianjin and Hebei ports has continued to deepen, with Tianjin Port focusing on container trunk transportation and optimizing the structure of bulk cargo transportation, Hebei ports consolidating functions for the transportation of energy and raw materials, and all nine planned airports in ...

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