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# Estimates of city-level energy storage projects

# Overview

Are city-level energy consumption data based on provincial energy consumption?

Second, although the city-level energy consumption data obtained using top-down and downscaling approaches conform in principle to provincial-level total energy consumption, these studies fail to determine the consumption levels of thermal, nuclear, and renewable energy 21, 22.

How is the energy consumption of public buildings calculated?

The energy consumption of public buildings is represented by sectors (e) and (f), while sector (g) is taken as residential buildings . These three sectors' energy consumption is calculated as the basic building energy consumption. Then, the basic value is further corrected from three aspects.

Is city-level energy development data compatible with other social data?

The dataset proposed in this study is compatible with other social data, applicable to cross-sectional, time-series, and panel data, thereby facilitating empirical research on the economic, social, and environmental external risks arising from city-level energy development.

How to estimate building energy consumption?

A top-down methodology is developed for estimating building energy consumption. Two representative cities are taken as the area for a case study. Buildings energy consumption maps with a resolution of 1 km are generated. The spatial patterns of building energy consumption are analyzed.

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two storage scenarios have been created, one involving shifting 20% of the generation (ES20) during ...

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To address these gaps, we developed computational modeling techniques along with top-down and downscaling methods to estimate ...

This study develops a top-down approach based on statistical and geospatial data to estimate building energy consumption with a high resolution (1 km × 1 km) at the city level. ...

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