

Outdoor power consumption is fast in winter





Overview

Does spending less time outdoors increase energy consumption?

Spending less time outdoors may increase household energy consumption. When people spend more time at home, indoor lighting, heating, cooling and household appliances are likely to be used more frequently, leading to higher energy consumption (Wu et al., 2023).

How does weather affect energy consumption?

The weather impacts energy consumption in several ways. This article will explore the impact of different variables including temperature, humidity, precipitation and wind on residential electricity consumption. Sunshine sensitivities reveal that households may be less flexible in their activities/routines on workday mornings.

Does winter weather affect power demand?

Our results indicate a significant decrease in average power demand, with a slight reduction in peak demand during cold waves, driven by rising winter temperatures. This trend may give the misleading perception of a reduction in grid constraints.

Will warmer temperatures reduce winter power demand?

Overall, future warmer temperatures are projected to significantly reduce winter power demand, consistent with prior studies 13, 18, 19. This temperature-sensitive reduction becomes more pronounced over longer time horizons and higher greenhouse gas emission scenarios.



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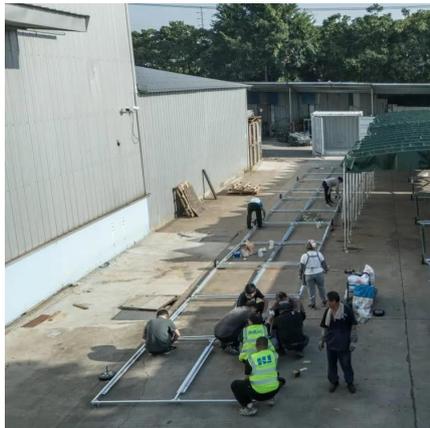




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