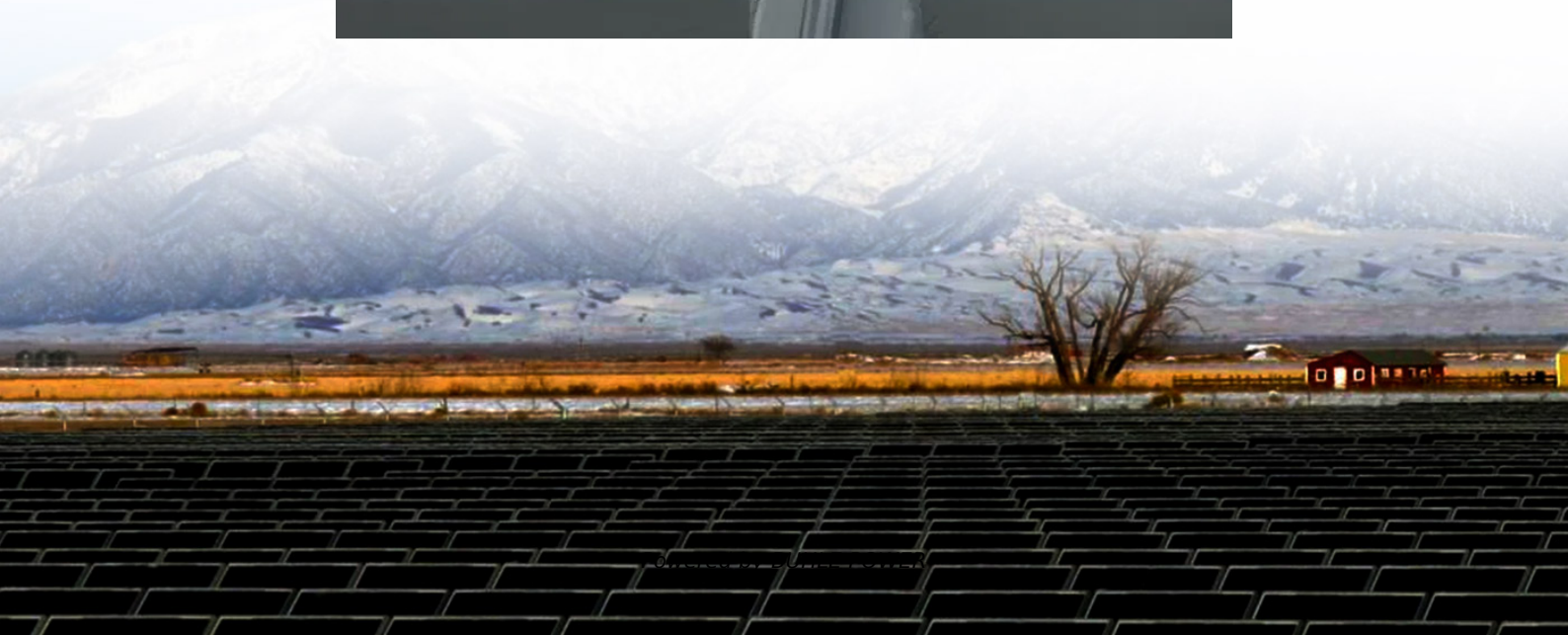
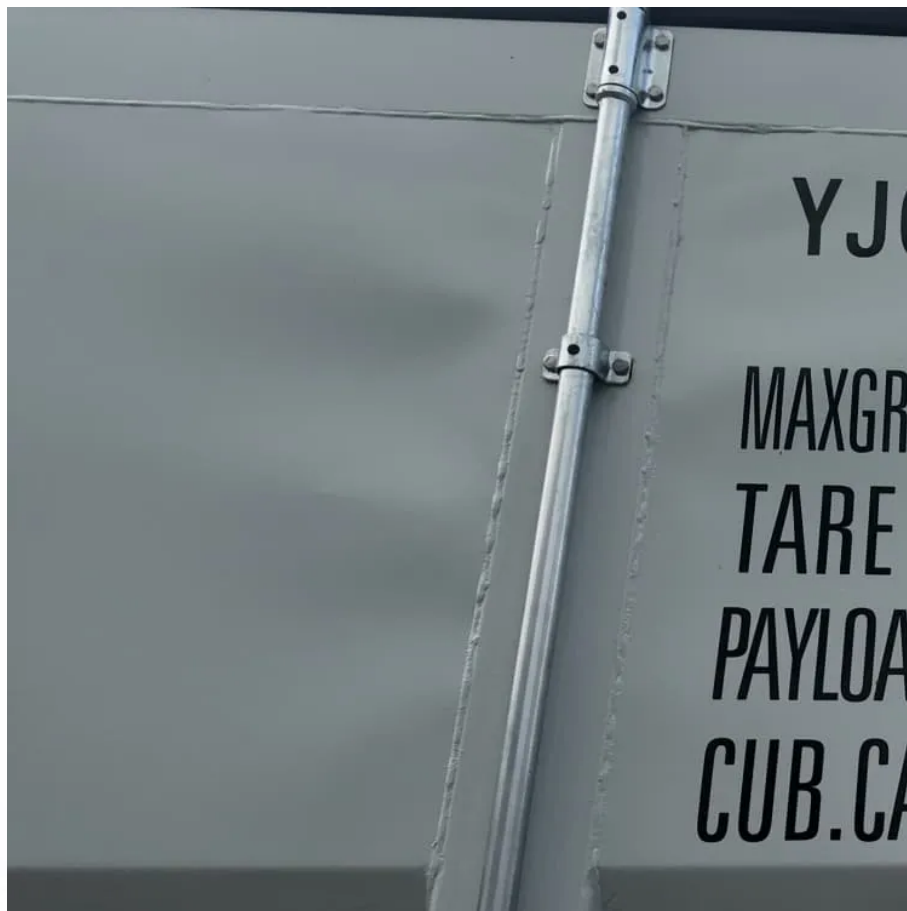


# Outdoor power usage times





## Overview

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Is electricity consumption a stable monthly trend?

In contrast, the PRD demonstrates a stable monthly electricity consumption trend, a discrepancy that may be attributed to the distinct industrial structures of each region. Temporal patterns of electricity consumption were further analyzed with land use data.

Is electricity consumption seasonal?

In particular, residential electricity consumption shows seasonal variations, especially during the summer peak season. Commercial and transport facility areas have relatively low electricity throughout the year and have no significant seasonal fluctuations.

Do commercial and transport facility areas have low electricity consumption?

Commercial and transport facility areas have relatively low electricity throughout the year and have no significant seasonal fluctuations. Monthly electricity consumption in the three urban agglomerations in 2019, as well as details in various land use types. (a) represents the monthly electricity consumption of the three urban agglomerations.

How accurate is a monthly electricity consumption model?

The method's accuracy showed significant improvements, with determination coefficients ( $R^2$ ) increasing by 30.1% and 33.4% over the baseline model in two evaluation datasets. With this advanced model, we estimated monthly electricity consumption across 1 km x 1 km grid for 280 Chinese cities from 2012 to 2019.



## Outdoor power usage times

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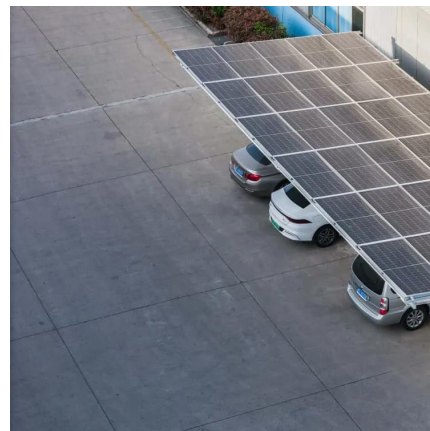


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