

Data Insight

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Humidity Adjusted Cooling and Heating Degree Days in Saudi Arabia

Cooling Degree Days



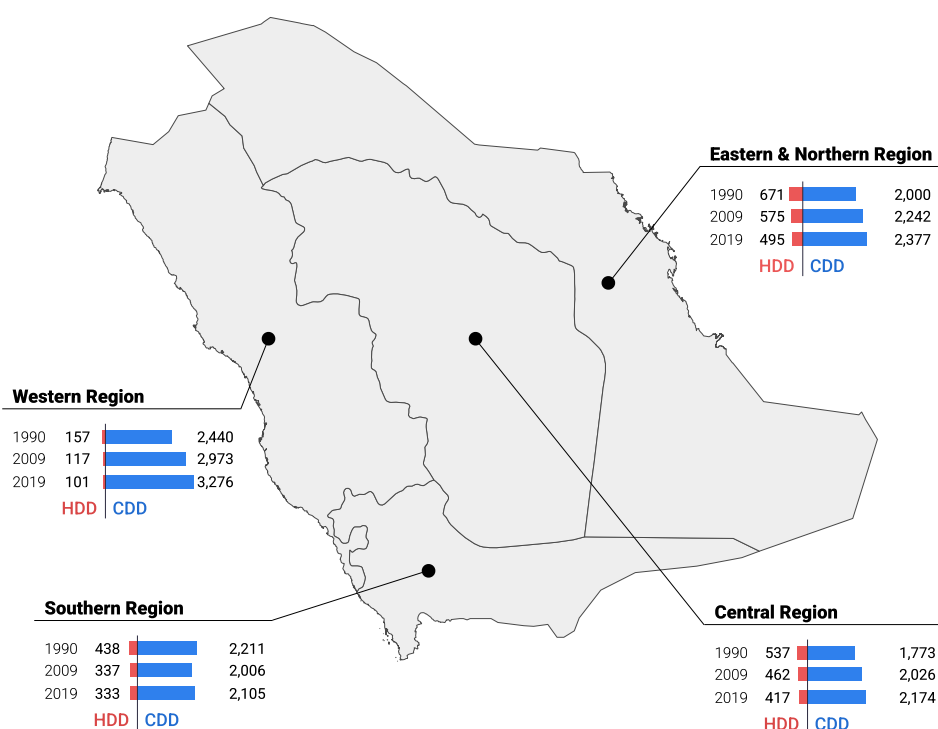
Cooling Degree Days (CDD) represent the annual required **cooling degrees** for an average household. The value is computed by taking the sum of the daily humidity-adjusted temperature in excess of 21.1°C over a year in a given region.

Heating Degree Days



Heating Degree Days (HDD) represent the annual required heating degrees for an average household. The value is computed by taking the sum of the daily humidity-adjusted temperature less than 18.3°C over a year in a given region.

Figure 1. Humidity adjusted cooling and heating degree days in regions of Saudi Arabia.



Source: Author's Calculation.

References

Mikayilov, Jeyhun I., Abdulelah Darandary, Ryan Alyamani, Fakhri J. Hasanov, and Hatem Alatawi. 2020. "Regional Heterogeneous Drivers of Electricity Demand in Saudi Arabia: Modeling Regional Residential Electricity Demand." *Energy Policy* 146:111796.

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The dataset can be accessed [here](#).

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