

A Large-Scale Residential Load Dataset in a Southern Province of China

Authors

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Supplimentary Table 1. Datasets relevant to the factors affecting HVAC energy consumption.

Variable	Name	Resolution	Reference
Solar Radiation	National Solar Radiation Database (NSRDB)	4-km, 30-min	https://nsrdb.nrel.gov/
	Surface Radiation Budget (SRB)	Global 3-hourly, 1°x1° grid	https://asdc.larc.nasa.gov/project/SRB
Building	Commercial buildings energy consumption survey (cbecs)	Building type, size, construction materials, HVAC systems, energy consumption	https://www.eia.gov/consumption/commercial/
	Building Performance Database (BPD)	Building size, location, energy use intensity, design features, HVAC types	https://www.energy.gov/eere/buildings/building-performance-database-bpd
Indoor Setpoint	ASHRAE Global Thermal Comfort Database	Indoor temperature setpoints, humidity, occupancy, thermal comfort responses	https://www.sciencedirect.com/science/article/abs/pii/S0360132318303652
	Chinese Thermal Comfort Field Study Dataset	Indoor temperature, humidity, setpoints, occupant feedback on comfort	https://www.nature.com/articles/s41597-023-02568-3
User Behavior	Residential Energy Consumption Survey (RECS)	Energy consumption, heating/cooling equipment, user preferences, behavior patterns.	https://www.eia.gov/consumption/residential/