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SBD Lab

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Benchmark model for nearly-zero-energy terraced dwellings

Version 2.0

Attia, Shady, 2021, "Benchmark model for nearly-zero-energy terraced dwellings", https://doi.org/10.7910/DVN/GJI84W, Harvard Dataverse, V2

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Description

One building performance simulation benchmark model for nearly zero-energy dwellings in Brussels. The study reports an inventory and field survey conducted on a terraced house renovated after the year 2010. An analysis of energy consumption (electricity and natural gas) and a walkthrough survey were conducted. A building performance simulation model is created in EnergyPlus to benchmark the average energy consumption and building characteristics. The estimate's validity has been further checked against the public statistics and verified through model calibration and utility bill comparison. The benchmark has an average energy use intensity of 29 kWh/m2/year and represents terraced single-family houses after renovation. (2021-07-06)

Subject

Engineering

Keyword

reference building, row housing, terraced building, energy audit, energy efficiency

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Related Publication

Attia, S., Canonge, T., Popineau, M., Cuchet, M., 2021, Developing a benchmark model for renovated, nearly zero-energy, terraced dwellings, Applied Energy

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