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Building energy performance simulation model for a nearly zero-energy office in Brussels

Version 1.1



Amaripadath, Deepak; Attia, Shady, 2023, "Building energy performance simulation model for a nearly zero-energy office in Brussels", <https://doi.org/10.7910/DVN/RKMICS>, Harvard Dataverse, V1

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Description

A building energy performance simulation model for a nearly zero-energy office building in Brussels, Belgium, is developed using DesignBuilder and EnergyPlus. The model uses a reversible VRF unit (electric) with DX cooling coils and DX heating coils. The rated COP value for cooling and heating for VRF systems is defined in the model. The minimum and maximum temperature values, thresholds below and above which the cooling and heating system will be disabled, can also be defined in the model. (2023-06-09)

Subject

Engineering

Keyword

Building performance, nearly zero-energy building, VRF systems

Feedback



D. Amara, S. Padath et al., "Climate change sensitive sizing and design for nearly zero-energy office building systems in Brussels," Energy and Buildings, vol. 286, p. 112971, Mar. 2023. doi: 10.1016/j.enbuild.2023.112971

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