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Neighborhood-Scale Mixed-Methods Dataset for Household Energy Renovation Analysis



Ruellan, Guirec; Attia, Shady, 2025, "Neighborhood-Scale Mixed-Methods Dataset for Household Energy Renovation Analysis", <https://doi.org/10.7910/DVN/GJDA1I>, Harvard Dataverse, DRAFT VERSION 

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This paper presents a neighborhood-scale mixed-methods dataset for the analysis of household energy renovation. The dataset combines three complementary data sources collected in an urban residential neighborhood in Liège, Belgium: (i) a door-to-door household survey documenting socio-demographic characteristics, dwelling attributes, energy use, and renovation status; (ii) qualitative focus group data capturing expert and stakeholder perspectives on energy renovation and energy poverty; and (iii) façade infrared thermographic images acquired from the public space to document relative thermal performance and heat loss patterns of residential buildings. The dataset enables the joint analysis of building conditions, household characteristics, and renovation contexts at the neighborhood scale. It is intended to support research on energy renovation, energy poverty, and the socio-technical assessment of residential buildings, as well as methodological studies that combine social data and infrared thermography. (2025-12-22)

Subject 

Engineering

Keyword 

energy renovation, household energy use, infrared thermography, residential buildings, energy poverty

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Dataset for Household Energy Renovation

Analysis.zip

ZIP Archive - 47.8 MB

Deposited Dec 23, 2025

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