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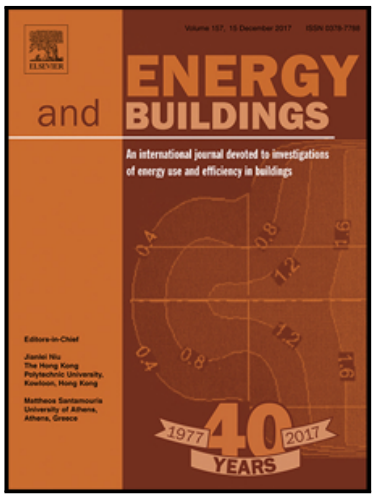

Energy retrofit alternatives and cost-optimal analysis for large public housing stocks

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Highlights

- Cost effective solutions for energy retrofitting projects are of capital importance for owners, especially for public or semi-public real estate companies who are dealing with large housing stocks.
- The aim of the present research work is to make a proposal for a DSS to help identifying the optimal intervention strategy for the energy retrofitting of public housing stocks.
- The proposed DSS evaluates the economic sustainability of various design alternatives with the net present value (NPV) and the global cost (GC), as suggested by the EPBD recast EU directive. These indicators are compared with the building energy performance index (EP).
- For energy and cost calculations all the required data of the DSS are implemented into a novel tool called BQE (Building Quality Evaluator), which can produce the requested results .

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