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# Retrofitting for Energy Conservation

William H. Clark II



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## ABOUT THE AUTHOR

WILLIAM H. CLARK is a mechanical, plumbing, structural, electrical, and lighting engineer who has been active in renovation projects throughout his career. An expert on energy-efficient materials and designs, he is a nationally known authority on retrofitting for energy conservation. Mr. Clark has written articles for numerous trade and technical journals, as well as several computer programs to model energy conservation strategies.

2. Energy retrofitting challenges in Social Housing. 2.1. Current trends in the housing sector. Buildings account for 40 % of Europe's energy use and a third of its greenhouse gases (GHG) emissions. The replication potential for energy retrofitting is therefore quite high. SHOs have several incentives for energy retrofitting of their housing stock: Considering SHOs' social mission and dependency on public funding, the sector is usually targeted as a priority and assigned the strongest regulations in terms of energy performance. Review the proposed works' specification including the proposed energy conservation measures; Review the proposed Measurement and Verification plans (M&V plans); Review the final EPC to be signed between the SHO and the selected ESCO But conserving energy is not the only reason for retrofitting existing buildings. The goal should be to create a high-performance building by applying the integrated, whole-building design process, to the project during the planning or charrette phase that ensures all key design objectives are met. For example, the integrated project team may discover a single design strategy that will meet multiple design objectives. Before making what may amount to a major investment in the retrofit of existing buildings for energy and sustainability improvements, it is important to determine if the investment is worthwhile in perspective with other building conditions. Is the building structurally sound? Are seismic upgrades needed to meet current standards and local building code requirements? Retrofitting existing housing for energy conservation : an economic analysis. Item Preview. remove-circle. Retrofitting existing housing for energy conservation : an economic analysis. by. Petersen, Stephen R.