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Energy Analysis Of A Solar-Cooled House In Amman

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Abstract:- The use of solar power is becoming more feasible these days, and more applications are being operated using it instead of conventional sources of energy. One of the promising and the important applications is solar cooling. Where in this paper the financial feasibility of using solar absorber chillers instead of diesel and LPG absorber chillers for low load spaces is investigated. The space is a conventional house in Amman where, the results show a promising payback period if the interest rates were low and with long operation of the cooling system. The results reached around 6 years as the minimum value, but the payback period becomes very high for high interest rate and short daily operation reaching values of 20 years or more.