



Aplicación del sistema de gestión energética en el sector hotelero [

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text (article)

Analítica

Excessive consumption of energy resources and environmental problems led to an energy diagnosis in the hotel sector applying the NTE INEN ISO 50001: 2012 (Energy Management System) standard. The development of the project is aimed at identifying and proposing the most viable technical and economic alternatives for the operational improvement and use of energy resources; this involved the collection of historical data on energy consumption. Later the global analysis of the energy consumption was carried out, with Pareto diagrams the critical equipment was identified in order of priority to the present problems. The ASME PTC 4.0: 2008 (Code of Tests for Steam Generator Performance) was also used; as the procedure for determining the efficiency of the boiler. Finally, the energy efficiency index (IEE) of the luminaire system was determined, obtaining results in accordance with the NTE INEN standard 1152: 84 (Natural lighting in buildings). It was evidenced that the teams are not working in optimal conditions; this is due to not meeting minimum standards of quality and qualified technical advice. With the participation of qualified personnel and the incorporation of the suggested improvements, an energy saving of up to 50% is expected. Keywords: energy efficiency; energy management system (NTE INEN ISO 50001: 2012); Performance Test Code (ASME PTC 4.0: 2008); environmental problem; hotel sector

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