

عنوان مقاله:

Investigating Energy Saving in the Design of the Oil and Gas Industry Safety Training Center with the Perspective of Using Renewable Resources

محل انتشار:

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خلاصه مقاله:

In the field of safety in the oil and gas industry, fire training centers are one of the most effective places that provide safety services in the three sectors of training, prevention and combat. Therefore, the design and construction of safety and rescue centers, the use of machines and the optimization of operation, increase the efficiency of the aid and rescue stations. The aim of the present study is to identify and investigate the amount of thermal comfort indicators and planning, sustainable development, climate design of architecture and the use of renewable resources in the design of the training center with climatic data and energy saving in the design of the oil and gas industry safety training center from the perspective of use. All buildings must be energy efficient buildings. The principle of saving resources, on the one hand, deals with the proper use of non-renewable resources and energy such as fossil fuels, in order to reduce consumption, and on the other hand, it pays serious attention to the control and use of natural resources as best as possible as renewable and lasting reserves. The results of the study showed that the use of pipes with a high thermal coefficient, thermal insulations suggested according to the study, thermal packages with renewable energies and adhesives with a thermal conductivity coefficient higher than 0.375 are very effective. Conducting the present study showed that the use of wastewater distribution and recycling of the resulting water to the environment using international standards saves water consumption by 29%.

کلمات کلیدی:

safety, Renewable Resources, Sewage Distribution and Water Recycling, Pipes with High Thermal Coefficient, Thermal Package

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