

Thermal performance of civil structure has turned out to be a demanding application in civil engineering and architecture. Thermal comfort (heating, ventilation, air cooling, airtightness, fabric performance) in buildings keeps the occupants energetic and positive. The study's objective is to maintain residents' comfort levels in their homes in the elimination of ...

Directive 2010/31/EU promotes the refurbishment of existing buildings to change them into nearly zero-energy buildings (nZEBs). Within this framework, it is of crucial importance to guarantee the best trade-off between energy performance and indoor environmental quality (IEQ). The implications of a global refurbishment scenario on thermal and visual comfort are ...

The 8th International Conference on Energy and Environment Research ICEER 2021, 13-17 September. Exploring the potential of nearly zero energy retrofitting for generic office buildings in Cairo, Egypt ... the best performing PV integrated into shading devices in an office building in Cairo is a 1 m horizontal overhang (0.5 m (height above the ...

environmental and energy impacts of design decisions. Energy efficient buildings aim to reduce the overall energy consumption necessary for their operation. High-performance buildings are designed to improve the overall building performance, besides energy usage, such as improving occupants' thermal, visual and acoustic comfort. 2.

ES Office building compelling with LEED & WELL & EDGE & ASHRAE and Tarshed. "ES office building is designed to be part of its local and citywide environment and to make a responsible contribution globally, we hope it will set the standard for office design that is Net Zero Carbon and achieves the wellbeing of its occupants at the fore.

1 Energy Conservation in Existing Office Building: Case study Petrojet Company Head Office Buildings in Cairo, Egypt Speakers: Nayera Refaat Abd-Allah<sup>1</sup>, Ahmed Hamza H. Ali<sup>1</sup>, Ali K. Abel-Rahman<sup>1</sup> and S. Ookawara<sup>1,2</sup> <sup>1</sup>Energy Resources Engineering Department, Egypt- Japan University of Science and Technology E-JUST, New Borg Elarab, Alexandria 21934, Egypt

People spend about 90% of their time in closed spaces such as residential and office environments, and indoor environmental quality (IEQ) has effects on their health, well-being, overall comfort and work productivity. The IEQ domains (i.e., thermal, acoustic, visual and indoor air quality) are able to influence office users' work day and even cause the onset of diseases. ...

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