

# Energy Conservation by Retrofitting: An Overview of Office Buildings in Saudi Arabia

Sarah A. Al-Ghamdi<sup>1</sup>, Alaa Al-Gargossh<sup>2</sup>, and Khalid A. Alshaibani<sup>3</sup>

**Abstract**—Buildings have become one of the fastest growing energy consumption sectors. Energy is used to operate the buildings' systems that are necessary for ensuring the comfort of the building's occupants; such as air-conditioning. In other hand, good energy management will assist to conserve the valuable natural resources and reinforce the global sustainability. The paper discussed the increase of electrical energy consumption in Saudi Arabia due to rapid economic development and the absence of energy conservation measures. Office buildings represent the commercial sector that consumes 14% of the total buildings energy consumption in Saudi Arabia. The new Tariff and the raise of the electricity rates have highlighted the problem of the energy consumption in office buildings and proved the need to develop energy conservation policies for sustainable development. The purpose of this paper is to shed light on some of Saudi retrofitting studies to explore energy conservation opportunities in Saudi office buildings and review some of the international retrofitting studies in order to develop solutions that can be applied in Saudi Arabia. The studies led to the result that the building envelope has a direct effect on electricity and energy consumption and that glazed facades work as a transmittal for heat. In order to analyze the impact of glazing factor in Saudi Arabia and the need for retrofitting, an office building with 36% glazed facade was selected, and some recommendation was discussed to minimize the energy consumption.

**Keywords**—retrofit, energy conservation, glazing.

## I. INTRODUCTION

IN order to achieve a bright energy future with minimal environmental impact, it must be taken into consideration that problems with energy utilization are related not only to global warming, but also to many other environmental concerns as air pollution, acid rain, stratospheric ozone depletion and the main concern is the emission of carbon dioxide (CO<sub>2</sub>). Nowadays, improving the energy performance isn't just for saving the environment but due to economic reasons as various organizations in different sectors is constantly under pressure to reduce energy consumption. The reduction in energy consumption leads to reduction in operating costs, and thereby helps to improve the profitability; as energy cost is one of the main cost drivers for businesses [1], [2] and this stands side by side with conserving the valuable natural resources.

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The world three primary economic sectors of energy use are industry, buildings and transportation. Buildings have become one of the fastest growing energy consumption sectors and they are the responsible of more than 33% of the global CO<sub>2</sub> emissions [3]. Thereby, improving the energy performance of existed buildings is undoubtedly considered to be one of the most sustainable and feasible measures for creating sustainable buildings with less energy consumption profiles [3].

Energy is used in buildings to operate its systems that are necessary for ensuring the comfort of the building's occupants; such as air-conditioning, heating and ventilation which all consume over 40% of the total energy, while the rest are used for lighting, elevators and equipment...etc. The good energy management of those systems in a building will assist to conserve the valuable natural resources; where many changes can be made to save energy and money [4]. These changes are called (Green Retrofitting). Low carbon retrofit can be achieved by improving the building envelope and systems with the primary intention of improving energy efficiency, saving money and reducing carbon emissions [4], and any building which performs badly in terms of energy consumption, comfort conditions or environmental impact is a potential candidate for retrofitting [5]. Whatever shortcoming or deficiency in the performance of one of the building systems would have to be compensated by other systems, otherwise the desired objectives would be compromised. The impact of the performance of such systems would be reflected on the quality of the environment, productivity and long-term economies of the facility [6]. Therefore, a total system approach of energy management that considers all systems together and their interaction as one system is critical in achieving the desired objectives of energy efficiency retrofit [6]. There is a wide range of possible retrofit actions, and they all have impact on each other either at the time of installation or after operation. Thereby, choosing the correct combination of actions increases overall effectiveness [5].

There are two key retrofit activities that stand out as major carbon reducing opportunities in multi-occupied commercial properties: The first is low disruption retrofits to the envelope which intended specifically to improve energy efficiency, and the second is accelerated replacement of existing systems and equipment [4]. Assessing the performance and potential of an existing building will indicate which remedial actions will produce the most effective results. Such actions may relate to the building, its systems and its users [5]. However, the building envelope cannot be deduced from its performance alone, because a building and its systems have such complex

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