

Need of Energy Conservation Measures in Existing Residential Buildings

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ABSTRACT: India, like many countries is an emerging economy which is urbanising rapidly. The construction sector plays a vital role in this economic growth and development but exerts a lot of environmental pressure. The sector is a huge consumer of resources as well as a generator of pollutants during the construction as well as the operation phase. The building sector consumes 30% of the total electricity consumption out of which 72% is consumed by the residential sector. New residential buildings are constructed by incorporating measures of energy efficiency as well as use of renewable energy but existing residential buildings are often neglected in the energy efficiency debate. India's existing residential buildings have a great potential and opportunities in reducing the total energy consumption. Thus the aim of the research is to understand the energy usage of the existing residential buildings and the need of energy conservation measures for the same. The existing residential building stock in Pune was identified and studied for its energy usage. Different typologies of residential buildings based on area was identified and its energy usage pattern was studied from the energy bills for one year. As these buildings will continue to consume the same amount of energy (or more) and are here to stay for at least 30-40 more years, it becomes a matter of great concern. Furthermore, the EPI (Energy Performance Index) are calculated for the selected samples and compared with the EPI of a Green Rated building. Analysis is led to the understanding of energy efficiency achieved in these buildings. The research emphasizes on the need to improve the existing residential buildings and prioritizes the methods of energy efficiency upgrades.

Key words: energy efficiency, energy performance index

I INTRODUCTION

Climate change can be defined as (Wikipedia) – “The statistical distribution of weather pattern when that change lasts for an extended period of time (i.e. decades or millions of years).” Climate change is no more just as environmental issues. But, it has become a developmental concern globally. The effects of climate change present many challenges that are threatening not just to our way of life but also putting the future on unstable grounds. The relationship between the energy and Earth's Climate largely depends on the source of energy. The most common way to produce energy is by burning of fossil fuels. Fossil fuels account for the majority of global energy use. Burning of this fuels, releases waste gases like CO₂ in the atmosphere. These are greenhouse gases which ultimately result in increase in temperature. This is the relationship between energy and climate.

The changes that are being experienced in the climate are affecting all our lives. Every industry is affected by the current changes but there is a big impact on the construction sector. Buildings that can withstand the colder winters as well as hotter summers and high winds are now necessary (S.N.K Pravin, 2017). All around the world, cities have been enhancing its economic, cultural and social attractiveness increasing population and infrastructure. The recent world climate reports stress the increasing severity and duration of heat waves which is a concerning climate change. In a global context of climate change, the urban area's sustainability and its environmental footprint need to be investigated and addressed, as an attempt to reduce negative impacts. (Margot Pellegrin-o) The increase in annual temperatures has brought forth the spells of hot weather across the globe, which is directly affecting the countries with warm climate like India. As a growing nation, India has to focus on the impacts of climate change on the developments and take initiatives for sustainability in nature. Presently, India faces the challenges of making the energy available which is needed to fuel this economic growth. India's energy policies face many challenges, such as, addressing its energy poverty, managing its high energy import dependence and finding way to solve the electricity gap. The current available energy is insufficient to meet its needs. Statistics suggest that 600 million Indians lack electricity while 700 million still depend on traditional fuels. (Gangwar, 2013) India's current per capita emissions are one third of the world average and 14% of the per capita emissions of OECD (Organisation for Economic Co-operation and Development) member countries. Thus India is increasingly engaged in reducing carbon emissions and addressing environmental degradation.

II LITERATURE REVIEWS

The importance of climate change is referred with the global environmental challenges which has the implications for water supply, food production, health, energy, etc. It is also stated that addressing this climate change requires a good scientific understanding as well as a coordinated action at national and global level by Singh G, 2013. Similarly, Margot P, Marcos S and Giacomo C have stated that on a global level of climate change, the sustainability and the urban area's environmental footprint need to be investigated and monitored as an attempt to find strategies to reduce negative impact. In a research paper by Usenobong F and Godwin E, 2012 the effects of energy consumption combustion are evaluated. The evaluation suggests a greenhouse effect which results from emission of environmental pollutants such as carbon monoxide, sulphur oxides, hydrogen compounds, nitrogen oxides, etc. Amongst other pollutants, CO₂ emissions are given a great deal of attention as it is considered a major factor in climate change.

The Application Of Structural Measures For Energy Conservation In Existing Buildings

**United States. Congress. House.
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Conservation and Efficient Use of Energy United States. Congress. House. Committee on Government Operations. Conservation and Natural Resources Subcommittee,1973 **Rehabilitation, Claremont 1978** Historic American Engineering Record,1979 **National Solar Energy Policy** United States. Congress. House. Committee on Science and Technology. Subcommittee on Energy Development and Applications,1979 **Building Technology Publications: 1976** Center for Building Technology (U.S.),1977 **ERDA Energy Research Abstracts** United States. Energy Research and

Development Administration,1976-05

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