

Sustainable high-rise building (Case study: three example of sustainable high-rise building in Iran)

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ABSTRACT: Due to the rapid growth of population and urbanization, the need to build high-rise buildings felt more than ever. This, along with the advancement of technology in various areas of construction could pave the way for structural engineers provide more to its architectural design ideas efficiently into their appearance. Technology can be a way to reach a solution for engineering purposes and also can lead to disturbances in nature and natural organisms. Since the high-rise buildings directly associated with the manufacturing technology should consider solutions that would prevent disruption of the technology in nature. One of the most important and fundamental mechanisms of high-rise buildings is stable. The purpose of this paper is to identify and introduce the concept of sustainable tall buildings are some examples of sustainable architecture building Iran.

Keywords: High-rise building, Sustainable, Architecture.

INTRODUCTION

The problem and the need

The seventies and the beginning of the green movement in the world and the use of fossil fuels as well as all aspects of human construction sector was affected. The population growth and the demand to accommodate more people in residential and consequently the lack of high-rise buildings could be remedial. The creation of high-rise buildings in Chicago this need was felt not a new issue, but from the seventies onwards to establish the feasibility of high-rise buildings in harmony with nature. The important results of the project were architects and designers. In the meantime, we can produce results that "Ken Yeang" and "Norman Foster", especially in the building of sustainable long found out that the project and its architectural monuments witnessed the results were displayed. Buildings such as the "Menara mesiniaga" by "Ken Yeang" was designed and built or "Commerzbank" by Norman Foster created from the samples. The main concern in choosing the topic and this study is to identify and introduce high-rise buildings sustained in Iran to Iranian architects outmoded samples for analysis of the country's according to the climate to be there. Certainly far beyond the scope of these buildings will be the introduction of the sample.



Figure 1. Commerzbank Tower. Source: [12].

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The Future of the City Kheir Al-Kodmany, Mir M. Ali, 2013 Drawing on the experience of several cities from different parts of the world this text provides a global perspective on the urbanization phenomenon and tall building development and examines their underlying logic design drivers contextual relationships and pitfalls

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addition to addressing the interlinked issues of sustainable development fuel poverty and fuel security Despite improvements in thermal efficiency the energy demand of buildings stubbornly remains unchanged or is only declining slowly due to the challenges posed by growing populations the expectations of larger more comfortable and better equipped living spaces and an expanding commercial sector Building Futures offers an interdisciplinary approach to explore this lack of progress combining technical and social insights into the challenges of designing constructing and operating new low energy buildings as well as improving the existing inefficient building stock The twin roles of energy efficiency which is predominantly concerned with technological solutions and energy conservation which involves changing peoples behaviour are both explored The book includes a broad geographical range and scale of case studies from the UK Europe and further afield including Passivhaus in Germany and the UK Dongtan Eco City in China and retrofit houses in Denmark This book is a valuable resource for students and academics of environmental science and energy based subjects as well as construction and building management professionals

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