

# 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].

# Sustainable High Rise Building Case Study Three Example

**Sam Romaya, Carole Rakodi**



## **Sustainable High Rise Building Case Study Three Example:**

**Building Type Basics for Housing** Joan Goody, Robert Chandler, John Clancy, David Dixon, Geoffrey Wooding, 2010-03-08  
Essential information for the design of housing Building Type Basics for Housing Second Edition is your one stop reference for the essential information you need to confidently begin the design process and successfully complete the design for housing large or small on time and within budget Members of the award winning design firm Goody Clancy share their firsthand knowledge to guide you through all aspects of designing and building residences The book presents knowledgeable real world advice for architects planners engineers and developers to create excellent residential design projects for a variety of housing types This updated edition offers a new collection of detailed project examples that represent the best in today's housing designs including more information on sustainable design and a fresh look at mixed use developments increasingly popular in urban areas It walks the reader through the guidelines planning concepts and lessons learned from single family detached homes and townhouses to multi family mid rise and high rise buildings Coverage also includes essential topics such as community planning site layout zoning and code issues parking strategies and the selection of building materials This new edition Asks and answers twenty questions that frequently arise in the early phases of a residential commission Provides a number of residential examples new to this edition from the last decade covering the full range of housing densities Is illustrated with numerous photographs diagrams plans and sections Shows how to obtain financing approvals and support for developments Includes new information on sustainability which is incorporated throughout the book This conveniently organized quick reference is an invaluable guide for busy dedicated professionals who want to get moving quickly as they embark on a new project Like every Building Type Basics book it provides authoritative up to date information instantly and saves professionals countless hours of research

**Industrial Engineering and Operations Management I** João Reis, Sandra Pinelas, Nuno Melão, 2019-04-13 Based on the 2018 International Joint Conference on Industrial Engineering and Operations Management IJCIEOM conference that took place in Lisbon Portugal this proceedings volume is the first of two focusing on mathematical applications in digital transformation The different contributions in this volume explore topics such as modelling simulation logistics innovation sustainability health care supply chain lean manufacturing operations management quality and digital Written by renowned scientists from around the world this multidisciplinary volume serves as a reference on industrial engineering and operations management and as a source on current findings for researchers and students aiming to work on industrial related problems

*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

**Index to Theses with Abstracts Accepted for Higher Degrees by the Universities of Great Britain and Ireland and the Council for National Academic Awards**, 2005

[Building Futures](#) Jane

Powell, Jennifer Monahan, Chris Foulds, 2015-11-24 A reduction in the energy demand of buildings can make a major contribution to achieving national and international carbon reduction goals in 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 *Building Sustainable Urban Settlements* Sam Romaya, Carole Rakodi, 2002 In this collection of studies the environmental institutional social and cultural aspects of sustainability are considered in a variety of towns and cities in Asia Africa the Middle East and Central and South America **The Making of Hong Kong** Barrie Shelton, Justyna Karakiewicz, Thomas Kvan, 2013-03 Portrayed as the accidental pioneer of a new kind of urbanism Hong Kong s evolution is traced from its pre colonial and colonial origins to the contemporary vertical and volumetric metropolis of towers podia and towers decks bridges escalators and other components of multi level city living *Advances in Carbon Management Technologies* Subhas Sikdar, Frank Princiotta, 2020-03-19 *Advances in Carbon Management Technologies* comprises 43 chapters contributed by experts from all over the world Volume 1 of the book containing 23 chapters discusses the status of technologies capable of yielding substantial reduction of carbon dioxide emissions from major combustion sources Such technologies include renewable energy sources that can replace fossil fuels and technologies to capture CO<sub>2</sub> after fossil fuel combustion or directly from the atmosphere with subsequent permanent long term storage The introductory chapter emphasizes the gravity of the issues related to greenhouse gas emission global temperature correlation the state of the art of key technologies and the necessary emission reductions needed to meet international warming targets Section 1 deals with global challenges associated with key fossil fuel mitigation technologies including removing CO<sub>2</sub> from the atmosphere and emission measurements Section 2 presents technological choices for coal petroleum and natural gas for the purpose of reducing carbon footprints associated with the utilization of such fuels Section 3 deals with promising contributions of alternatives to fossil fuels such as hydropower nuclear solar photovoltaics and wind Chapter 19 of this book is freely available as a downloadable Open Access PDF at <http://www.taylorfrancis.com> under a Creative Commons Attribution Non Commercial No Derivatives CC BY NC ND 4

0 license     **Sustainable Development of Urban Infrastructure** Xiang Dong Zhang,Hong Nan Li,Xia Ting Feng,Zhi Hua Chen,2012-12-13 Selected peer reviewed papers from the 2nd International Conference on Civil Engineering and Transportation ICCET 2012 October 27 28 2012 Guilin China     *Sustainable Development of Industry and Economy* Qun Jie Xu,Hui Li,Qiao Xia Li,2013-12-13 Selected peer reviewed papers from the 3rd International Conference on Energy Environment and Sustainable Development EESD 2013 November 12 12 2013 Shanghai China     *A New Prosperity, Building a Sustainable Energy Future* ,1981     *Existing Buildings, Version 2.0* ,2006     *European Directory of Sustainable and Energy Efficient Building* ,1996     **The Challenge of Slums** United Nations Human Settlements Programme,2003 First Published in 2003 Routledge is an imprint of Taylor Francis an informa company     **Dissertation Abstracts International** ,2008     *Living in the Environment* George Tyler Miller,1998 This book is designed to be used in introductory courses on environmental science It treats environmental science as an interdisciplinary study combining ideas and information from natural sources and social sciences     **The Architecture Annual** ,2006     *EDRA; Proceedings of the Annual Environmental Design Research Association Conference* Environmental Design Research Association,2007     **EDRA.** Environmental Design Research Association,2002     **Conference Report** ,2007

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