

Project Profile For A Rooftop Helipad

The urban climate is continuously deteriorating. Urban heat lowers the quality of urban life, increases energy needs, and affects the urban socio-economy. Urban Climate Mitigation Techniques presents steps that can be taken to mitigate this situation through a series of innovative technologies and examples of best practices for the improvement of the urban climate. Including tools for evaluation and a comparative analysis, this book addresses anthropogenic heat, green areas, cool materials and pavements, outdoor shading structures, evaporative cooling and earth cooling. Case studies demonstrate the success and applicability of these measures in various cities throughout the world. Useful for urban designers, architects and planners, Urban Climate Mitigation Techniques is a step by step tour of the innovative technologies improving our urban climate, providing a holistic approach supported by well-established quantitative examples.

This book addresses the important issues involved in forming effective and profitable teams for construction projects - both within and between client, design and construction firms. It is divided into two main sections. The first contains theories related to particular aspects of project teams, with key points illustrating their practical application. The second contains real and simulated building and civil engineering case studies, each concluding with corrective lessons to aid successful construction project team building.

Drawing on the Asian Development Bank's experience installing the rooftop solar photovoltaic system at its headquarters, the Handbook for Rooftop Solar Development in Asia hopes to demystify the process of developing solar photovoltaic projects in urban areas. The handbook provides detailed descriptions and guidance for all stages of development, including initial prefeasibility assessment, design, financing, procurement, and operations and maintenance. The Asian Development Bank hopes that entities looking to take advantage of the benefits of solar photovoltaic systems would find the development process made transparent and streamlined, and that this handbook would encourage the spread of solar photovoltaic systems in cities throughout developing Asia and the Pacific.

This report describes the development of the green bond market as an innovative instrument for green finance, and provides a review of policy actions and options to promote further market development and growth. Since 2007-08, so-called "green bonds" have emerged and the market has risen from ...

Retrofitting expresses, in a traditional approach, the process of improving something after it has been manufactured, constructed, or assembled. These systems integrate new technologies, new functions, and new services that increase the energy performance in existing private, public, and commercial buildings. Retrofitting for Optimal Energy Performance is a comprehensive reference source that examines environmentally conscious technologies and their applications in advancing retrofitting practices. Providing relevant theoretical frameworks and the latest empirical research findings in the area, it highlights an array of topics such as climate change, energy management, and optimization modeling, and is essential for academicians, students, researchers, engineers, architects, entrepreneurs, managers, policymakers, and building owners.

Studies of Hong Kong society have long focused one-sidedly upon economic prosperity and political stability. Contributors to this volume redress this imbalance by taking a critical view of Hong Kong's political development from the perspectives of social conflict and collective action. Instead of looking at Hong Kong from the top, this volume documents the active role played by local actors from below (political groups, student activists, trade unions, women groups, environmentalists, and community organizers) and their impact on social and political development in Hong Kong society in the context of political transition and democratization, economic restructuring, and an emergent local identity.

Use Maya to create realistic environments and props for digital games Weapons, vehicles, tools, buildings, trees, plants, walls, ceilings, and floors-these items may seem secondary to the game environment, but they are integral parts of the game and they all need to be created. Maya Studio Projects: Game Environments and Props is a step-by-step project guide to creating some of the most popular game art. Author Michael McKinley shares techniques for getting the most out of Maya to create realistic, vivid, and compelling worlds and otherworldly props. Along the way, he provides notes and FYIs that give readers depth and breadth for bringing both reality and creativity to their game art. A bonus DVD features step-by-step videos to help drive home concepts. The Studio Projects series offers projects that start from nothing, just as they do in the studio; these books provide you with a step-by-step guide to software attributes and tools that encompass multiple disciplines so that you can create a finished, renderable object Many games have only a few characters, and multiple levels and environments, and hundreds of props-this book focuses on projects and techniques for creating everything but the character Maya is the top 3D app for creating console and computer games such as: Rock Band, Gears of War, James Bond: Quantum of Solace, Fallout 3, and Far Cry 2 Learn effective Maya studio techniques with this handy, step-by-step, full-color book. Note: CD-ROM/DVD and other supplementary materials are not included as part of eBook file.

Green roofs—the ultimate in sustainable building practices—continue to generate enormous interest and enthusiasm among architects, landscape designers, and urban planners. Increasingly strict stormwater regulations and the appeal of LEED-related projects have also boosted the popularity and desirability of green roofs. Those who want to build green roofs, however, have few resources to guide them. Until now, no book has taken a comprehensive look at how to effectively adapt green-roof technology to the variable and extreme North American climate, and how to design projects that will function and endure as successfully as those in Germany, Switzerland, and other European countries. This book fills the gap by providing an overview of practices and techniques that have been effective in North America. The authors offer options regarding structure, function, horticulture, and logistics, as well as surveys of actual projects and analyses of why they have or haven't succeeded. Approachable and reader-friendly, the manual clearly explains how these complex systems function and how to plan and carry out projects successfully from concept through construction and maintenance. Ideally suited to professionals (including architects, landscape architects, engineers, and designers) and their clients, it brings together key lessons from leaders in the field. Numerous photographs highlight the range of design possibilities and show green roofs both during construction and at various stages of maturity. At last, those seeking basic information about how to design and build green roofs have a concise, authoritative guide to this exciting new technology.

This book presents a comprehensive account of the energy and environmental security perspectives of the developing countries. To address the subject comprehensively, it covers four geographically diverse clusters of developing countries from across the world. The regions particularly focused on are: South Asia, South East Asia, Sub Sahara Africa, and Latin America. It is a valuable contribution to the debate, and policy and research activities around

the subjects of energy and environmental security in the developing countries and beyond. The book covers the interwoven subjects of energy security and environmental security in the context of developing countries for the first time. It discusses the latest dimensions, challenges, and solutions around taking into account technical, economic, social, and policy perspectives. It incorporates up-to-date data, case studies, and comparative assessment. This edited book has contributions from established as well as emerging scholars from around the world. It benefits a wide range of stakeholders from the fields of energy, environment, and sustainable development. It is of help to academics, researchers, and analysts in these fields besides having appeal for policymakers, and national and international developmental organizations. It also helps developing countries to learn from each others experiences.

Indoor residential environments have a direct influence on human health, both in developed and developing countries. Significant levels of indoor pollution can make housing unsafe and can negatively impact on human health. Housing, therefore, is a key health factor for people all over the world, and various parameters such as air quality, ventilation, hygrothermal comfort, lighting, physical environment, building efficiency, and others can contribute to healthy architecture and the conditions that can result from the poor application of these parameters. Health and Well-Being Considerations in the Design of Indoor Environments addresses issues concerning indoor environmental quality (IEQ), including air quality and ventilation, access to daylight and views, acoustic conditions, and control over lighting and thermal comfort, as well as the impact that this environment can have on human health and mental well-being. The book also investigates the functional aspects of interior design such as whether the layout provides easy access to tools and sufficient space for occupants. It also considers energy demand and building energy losses due to such issues as air renovations and enclosure infiltrations. Covering topics such as sustainable design, pollution, building materials, and lighting, this book is an effective resource for students, professors, academicians, researchers, architects, designers, planners, engineers, interior designers, building managers, construction companies, and other industry professionals looking to increase building occupant satisfaction by considering all aspects of IEQ.

"In July 2012, the Green Infrastructure Finance Framework Report was published to address the constraints in financing green infrastructure and to develop a new PPP-based approach to accelerate investments in low emission technologies. The approach calls for assessing the "Green Investment Climate" of a given country in order to develop country-specific recommendations for policy and incentive programs as well as other measures which can be introduced in order to further promote green growth in an economy. This report includes one of the first Green Investment Country Profiles completed for the East Asia and Pacific Region as part of bringing the approach closer to operational status. The initial countries include China, Philippines, Vietnam, Malaysia, Indonesia, Singapore and South Korea. The assessment involves not only the green policy and incentives environment, but also the country's overall natural resource endowment of fossil and renewable energy, its industrial development strategy in addition to general business indicators and other considerations, such as electricity prices, the capacity of the financial sector to mobilize long-term domestic financing, as well as their overall regulatory and legal capacity to implement PPPs. The country profiles provide a general understanding of the attractiveness, prevailing trends, strengths, and other aspects affecting the ability of the country to leverage its green growth potential. "

Containing the proceedings of the 9th International Conference on Urban Regeneration and Sustainability this book addresses the multi-disciplinary aspects of urban planning;

a result of the increasing size of cities; the amount of resources and services required and the complexity of modern society. Most of earth's population now lives in cities and the process of urbanisation still continues generating many problems deriving from the drift of the population towards them. These problems can be resolved by cities becoming efficient habitats, saving resources in a way that improves the quality and standard of living. The process however, faces a number of major challenges, related to reducing pollution, improving main transportation and infrastructure systems. New urban solutions are required to optimise the use of space and energy resources leading to improvements in the environment, i.e. reduction in air, water and soil pollution as well as efficient ways to deal with waste generation. These challenges contribute to the development of social and economic imbalances and require the development of new solutions. Large cities are probably the most complex mechanisms to manage. However, despite such complexity they represent a fertile ground for architects, engineers, city planners, social and political scientists, and other professionals able to conceive new ideas and time them according to technological advances and human requirements. The challenge of planning sustainable cities lies in considering their dynamics, the exchange of energy and matter, and the function and maintenance of ordered structures directly or indirectly, supplied and maintained by natural systems. Topics covered include: Urban strategies; Planning, development and management; Urban conservation and regeneration; The community and the city; Eco-town planning; Landscape planning and design; Environmental management; Sustainable energy and the city; Transportation; Quality of life; Waterfront development; Case studies; Architectural issues; Cultural heritage issues; Intelligent environment and emerging technologies; Planning for risk; Disaster and emergency response; Safety and security; Waste management; Infrastructure and society; Urban metabolism.

Solar photovoltaic (PV) technology has been successfully implemented in the remote regions of India for more than two decades now. It has various end-use applications like lighting, pumping water, and charging battery for multiple uses. However, recently, there has been a growing bias towards the use of PV grid connected power plants. The larger issue here is that of tracing a connection between solar energy and grid connectivity. This book provides an insight into the basic understanding of PV grid power plants from various end-use considerations. It also touches upon the policy, planning, marketing, and financing aspects vis-à-vis the performance indicators attained by different countries in the world. Various facets of solar power generation have been explored, which makes this publication an important intervention in the field of solar PV. This book explores ways in which India can negotiate the low carbon path up until 2030, when it is expected to be the largest economy after the US and China. It comprehensively reviews the low climate pathways for India and provides a guide to the pathways that the country can adopt. India's population, energy demands and emissions will increase significantly, and the challenge is to restrict its CO₂ emissions and walk the low carbon path. Through its Intended Nationally Determined Contributions (INDCs), India has pledged to reduce its emissions significantly. Addressing the question of which low carbon paths India can adhere to without compromising its growth, the book identifies the key factors that feed into existing models of climate change and discusses the cost of action versus inaction. It also examines key issues concerning India's environment through the lens of the transport,

industry and water sectors. The book concludes by looking at policy implications for low carbon growth in India.

This SpringerBrief presents information on a wide variety of hazards and the damage potential caused by installation of a photovoltaic (PV) system. The current installation practices for PV systems on roofs create electrical, fire, structural, and weather-related hazards that do not comply to current codes, standards and guidance documents. Potential dangers include structural loading, wind loads, hail, snow, debris accumulation, seismic hazards, firefighting hazards, and electrical hazards. Despite the increased popularity of PV systems after the environmental movement, research shows that the costs of installing PV systems outweigh the benefits. Hazards of PV systems on roofs have caused several incidents in the United States; the most notable in Bakersfield, California, and Mount Holly, North Carolina. Designed for fire engineers and professionals, *Best Practices for Commercial Roof-Mounted Photovoltaic System Installation* offers recommendations to set up PV systems safely and sustainably. Until now, the green roof movement has been limited to large-scale, professional endeavors and public buildings. But homeowners everywhere are catching onto the benefits of a green roof—water conservation, energy savings, and storm water management. In *Small Green Roofs* authors Dunnett, Gedge, Little, and Snodgrass profile ordinary homeowners who scaled green roofs down to the domestic level. *Small Green Roofs* is the first book to focus on small-scale and domestic green roofs. More than forty profiles of small and domestic-scale projects of all shapes and sizes include green roofs on sheds, garden offices, studios, garages, houses, bicycle sheds, and other small structures, as well as several community projects. For each project, details are given for design, construction, and installation, as well as how-to tips on how the roof was planted and cared for. For readers looking for inspiration when hiring a contractor or taking the adventurous step of building their own, *Small Green Roofs* provides the knowledge and encouragement to make it possible.

"The results show that in terms of potential habitat for wild bees there is hardly any difference between a nature-like green roof with substrates from the region (a mix of sand and clay) and the ground. Green roofs such as the Klinikum 2 in Basel could be planted with a greater variety of plants that could provide food throughout the growing season. As extensive green roofs do not suffer any disturbance once installed, the dead plant matter provides ideal habitats during the winter for spiders and insects. In urban areas such undisturbed conditions are hardly able on the ground and difficult to provide by design, as parks and gardens are constantly maintained. On the ground there is also more competition from other species. Extensive green roofs can improve conditions for wild bees by providing additional feeding grounds in built-up areas ; they can therefore count as ideal extensions to the natural conditions on the ground." -- viewed 4/16/20. Despite recent improvements in energy efficiency being made in new build, it is important that the existing commercial building sector also take action to meet emission reduction targets. The objectives and challenges of such action will reduce the risk of the sector becoming obsolete due to high energy use and poor environmental performance. This book presents a theory-based, practice-support methodology to deal with sustainable retrofitting opportunities for existing commercial buildings in warm climates using bioclimatic design as the basis. The book has four main parts, focusing on eco-design and renovation, bioclimatic retrofitting, technological and behavioural

change and case studies of retrofitting exemplars. In the first part, the context of climate change effects on design and renovation at the city scale is discussed. The second part looks at bioclimatic retrofitting as a 'design guide' for existing buildings, highlighting the significance of architectural design and engineering systems for energy performance. The technological and behavioural contexts of the existing building sector – policies, modelling, monitoring and trend analysis in respect to energy and environmental performance – are covered in part three. The final part gives some case studies showing the effectiveness of strategies suggested for effective environmental performance. This book is a must-have guide for all involved in the design and engineering of retrofitting projects in warm climates.

ProjectX India | 15th July 2021 edition provides you with power-packed information on 246 projects from 66 sectors of the Indian economy. In this issue we have covered 43 projects in Conceptual/Planning Stage, 48 Contract Awards, 42 Projects Under Implementation, 104 Tenders, and 9 other projects. The project information is provided along with nearest contacts as available in the public domain to facilitate B2B exchange. Each issue of ProjectX India series provides you with information on new projects & ongoing projects from India, Contract Awards, Project Updates, Commissioned Projects and Tenders. This e-book serves to all those who are interested to know and tap the project opportunities in the Construction, Infrastructure, and Industrial segment. The aim is to serve you with the right information on upcoming and ongoing projects, contracts, and tenders from India. The business opportunities are coming to the fore each day, and we, at ProjectX India, are eager to grab and provide the information which can make a difference to your business. Identify the right project through ProjectX India and accelerate your business. Thank You and Happy Reading.

The Real Estate Solar Investment Handbook explains the business case for property professionals to pursue solar projects. A project's value is determined by its potential risks and rewards; these are explained thoroughly in terms understood by the real estate industry. This book provides a framework for practical decision-making, with each chapter addressing a step in the process, from project idea to completion. Written from the perspective of the commercial real estate industry professional, it will help investors evaluate opportunities and execute projects that offer solid risk-adjusted investments. For property owners, investors, landlords, service providers, and all those looking to invest in solar on commercial property, The Real Estate Solar Investment Handbook will guide you through all the steps needed to gain years of revenue from a project.

This book provides an extensive overview of utility scale solar project development and the various tasks required to bring large solar power plants from plans to realities. The various topics have been organized and presented in a way to clearly define important development fundamentals including basic business and legal considerations. The reader is also guided through the more complex aspects of renewable energy development such as how to choose the ideal project site. Further, while the book is appropriate for a cover to cover read-through it is also designed to be an excellent go-to reference, a HANDBOOK FOR RENEWABLE ENERGY DEVELOPMENT. Edited by: Albie Fong and Jesse Tippett with contributions from: Arturo Alvarez, Jeffery Atkin, William DuFour III, Perry Fontana, William Hugron, Jason Keller, Tyler M. Kropf, Michael Mendelsohn, Brett Prior, Scott Reynolds, Pilar Rodriguez-Ibáñez, Katherine Ryzhaya Poster and Alfonso Tovar ELECTRONIC ENHANCEMENTS The book's companion website <http://www.solarbookteam.com> provides contact information for all authors

to the book and access to the key resources highlighted in the text. This tailored media platform provides supplemental and exclusive information that is up-to-date with the present state of the solar industry.

Covering the proceedings of the 11th International Conference on Urban Regeneration and Sustainability held in Alicante, Spain, this volume addresses the multidisciplinary aspects of urban planning; a result of the increasing size of cities, the amount of resources and services required and the complexity of modern society. Most of the earth's population live in cities and the process of urbanisation still continues to generate problems originating from the drift of the population towards them. These problems can be resolved by cities becoming efficient habitats, saving resources in a way that improves the standard of living. The process faces a number of challenges related to reducing pollution and improving main transportation and infrastructure systems. These challenges can contribute to the development of social and economic imbalances and require the development of new solutions. Large cities are probably the most complex mechanisms to manage, nevertheless they represent a productive ground for architects, engineers, city planners, and social and political scientists able to conceive new ideas and time them according to technological advances and human requirements. The Sustainable City XI follows a succession of very successful international conferences and covers the following fields: Urban planning and design; Urban development and management; Urban conservation and regeneration; The community and the city; Eco-town planning; Landscape planning and design; Environmental management; Sustainable energy and the city; Transportation Quality of life; Socio-economic and political considerations; Cultural quarters and interventions; Waterfront development; Case studies – sustainable practices; Architectural issues; Cultural heritage issues; Appropriate technologies for smart cities; Planning for resilience; Disaster and emergency response; Urban safety and security; Waste management; Urban infrastructure and Urban metabolism.

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