
基于绿色住宅建筑设计与实践案例的研究——以郡枫绿园为例

摘 要

随着进入 21 世纪以来，社会不断向前进步，经济条件也越来越好了，越来越多的人开始追求更高更好的生活水平，追求绿色低碳健康的生活。越来越多的人对绿色的城市，绿色的家的关注度越来越高，绿色低碳的意识越来越普及，不断的催生更多的绿色建筑建设。其中，特别是绿色住宅成为了人们心目中理想的居所，是人们对绿色未来美好的憧憬。提倡和发展绿色低碳节能的建筑，是当下整个建筑行业向前发展和转变发展方式的必然目标和要求，也是其中房地产行业转型升级的内在需求。而且对于正在建设中的绿色中国，建设宜居城市、健康城市、绿色城市，既是贯彻落实科学发展观并提升城市发展质量必然选择，也是促进建筑行业转变为绿色发展方式，推动与国际接轨的必然。中国的绿色建筑正进入建设和发展的关键时期，始终贯彻可持续发展的理念，并将其融合到建筑的全生命周期中。可以说发展绿色建筑，已成为今后建筑业发展的新方向。

本文从绿色建筑的起源及发展开始，探讨绿色建筑中的一部分——绿色住宅。介绍了什么是绿色住宅，它与传统一般住宅有什么不同。绿色住宅的一般标准并且通过实际的设计和案例，探讨绿色住宅建筑中节省成本与安全的技术和思路。比如墙体围护结构方面的保温隔热性能；采光遮阳结构设计；室内通风系统的构建；绿色节能的施工技术；建筑物中可再生能源的利用；室内绿色环境创新设计；智能家居建筑与物联网技术集成应用等等。最后，本文对绿色住宅在未来的发展作了简略的分析，绿色住宅将成为未来住宅发展的新方向。

关键词：绿色建筑；绿色住宅；绿色设计；绿色低碳

ABSTRACT

With the entry of the 21st century, the society continues to advance, economic conditions are getting better, more and more people began to pursue a higher and better standard of living, the pursuit of green low-carbon healthy life. More and more people on the green city, the higher the attention of green home, green low carbon awareness more and more popular, and constantly give birth to more green building construction. Among them, especially the green house has become the ideal residence in people's minds, is people's vision of a green future. Promoting and developing green low-carbon energy-saving buildings is the inevitable goal and requirement of the whole construction industry to develop and transform the development mode, and it is also the inherent demand of the real estate industry transformation and upgrading. And for the green China under construction, the construction of livable cities, healthy cities and green cities is not only the inevitable choice to implement the concept of development and improve the quality of urban development, but also to promote the transformation of the construction industry into a green development mode, and promote international integration. China's green buildings are entering a critical period of construction and development, and the concept of sustainable development is always implemented and integrated into the whole life cycle of the building. It can be said that the development of green buildings has become a new direction for the development of the construction industry in the future.

This paper starts with the origin and development of green building, discusses a part of green building - green housing. This paper introduces what is a green house, how it differs from the traditional general residence. The general standard of green housing and through practical design and practice cases, explore the technology and ideas of cost saving and safety in green residential buildings. Such as thermal insulation performance in wall enclosure structure, lighting sun-shielding structure design, construction of indoor ventilation system, green energy-saving construction technology, use of renewable energy in buildings, innovative design of indoor green environment, integrated application of smart home building and Internet of Things technology, etc. Finally, this paper makes a brief analysis of the future development of green housing, green housing will become a new direction of future residential development.

Key words: Green Building ; Green Residential ; Green Design ; Green Low Carbon

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