Analysis of problems in building ventilation energy-saving design

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Abstract. With the development of modern science and technology, the work of all walks of life has been further improved, and related content has become more abundant. Building construction is a problem that people attach great importance to now. Only by better grasping the relevant content, developing the core strength, and improving the strength of the enterprise can practical problems be effectively solved. Building ventilation and energy-saving design is one of the important aspects. The problems in the ventilation design are handled well, the analysis is carried out accurately, and effective solutions are grasped to ensure the quality of the design, so as to play an active role in the development.

1. Introduction
Building ventilation and energy-saving design is a problem that people are generally concerned about now. It is the demand of modern social development and the trend of future development. Related content and design methods have been further improved. We can only better deal with the problems and master Related content, the construction of a new development concept, the problem of ventilation and energy-saving design can be effectively dealt with, so as to provide a comfortable environment for people to live, so as to achieve better development effects and promote the construction and development of construction enterprises. Improve design efficiency and quality, save energy, and improve the overall level of development.

2. Importance and significance of building ventilation and energy-saving design
Building ventilation and energy-saving design is of great significance. Now that environmental pollution is serious, in order to better complete energy-saving work and reduce air pollution, so that the indoor air of the building can be better improved, when people carry out building ventilation and energy-saving design Incorporating new content, using new equipment and construction technology, this can better solve practical problems and achieve better results. We often use appliances such as air conditioners and air coolers to close doors and windows. The current construction concept has undergone a great change. The indoor temperature can be naturally cooled, and the indoor and outdoor air can be circulated, so as to improve the quality and standard of healthy life. [1]

The building ventilation energy-saving design is mainly to improve the ventilation performance of the building, so as to meet the development needs of people, effectively improve the indoor environment, so as to achieve better results, so that the difference between indoor and outdoor airflow and air pressure can be used. Then it is integrated with Ren Feng to achieve the effect of ventilation. Compared with traditional ventilation design, environmental protection changes are incorporated in the design concept, and energy-saving methods are incorporated into it, which can better play its good role. Fresh outdoor air can be introduced into it to strengthen the ventilation capacity of the building, and the indoor air can
be properly discharged to the outside, which can achieve better results. Now the ventilation and energy-saving design work is gradually being improved, and related work has also been further developed. This has brought many benefits to people, ensuring the quality of people’s living environment, and effectively solving the problems in traditional design.

When designing ventilation and energy-saving, we must correctly apply relevant technologies and methods for processing, so that indoor cooling can be achieved, so that passive cooling can be achieved, and production costs can also be effectively reduced. The building's ventilation system can play a corresponding role, and it can also send out harmful gases in the room. On the basis of low power consumption, natural ventilation can be used for cooling. This design method is constantly being applied, and many construction companies have begun to use this technology, which plays an important role in the actual development. Related work has also been further improved, and the relevant development content has been well grasped. Incorporating new ideas and technologies, and continuously promoting the construction of enterprises, in order to achieve a higher level of development.[2]

3. Problems existing in the current building ventilation and energy-saving design process

3.1. Unreasonable planning
There are still many problems in the development process of ventilation and energy-saving design for construction enterprises. Among them, unreasonable planning leads to problems, which makes the quality of construction unable to be guaranteed. Nowadays, the design level of many designers is not high enough, and they do not pay attention to the development of design concepts, so that the current building ventilation design is still at the original development stage, focusing on the development of interests, but not paying attention to the progress of environmental protection, so that it can not achieve better The related content of energy-saving design is not perfect enough. Related work has not been further promoted. This not only leads to a decline in the economy, but also fails to ensure the quality of construction, which brings great losses to the enterprise. Due to the unreasonable planning caused many problems, related work still needs to be further developed and improved.[3]

3.2. Building ventilation design is not scientific
On the other hand, building ventilation design is unscientific, making the content of the design inconsistent with the actual construction development, which will bring a lot of losses to the enterprise, and thus cannot better control the quality of the actual construction. Unreasonable ventilation design will cause a lot of energy consumption, and it will also affect the quality of the building and the indoor environment. We need to fully consider all aspects when designing ventilation, and integrate the influencing factors, but Nowadays, many architectural design companies have violated the concept of development, and only focus on the development of interests, but put aside the concept of energy-saving and environmental protection. This will cause the later construction cost to be greatly increased, and it will also cause a lot of trouble in the later stage of project maintenance. In this way, construction companies cannot get better development. Faced with the current development situation, building ventilation design is related to subsequent construction, and related work needs to be further improved. The impact caused by unscientific design must be dealt with as soon as possible, as shown in figure 1 [4]
4. Renovation plan for building ventilation and energy-saving design

4.1. Carry out overall planning and energy-saving design
In order to better solve practical problems, achieve better development results, and promote the development of construction enterprises, we need to propose relevant measures to transform traditional designs, so as to achieve better results and carry out overall urban planning. Energy-saving design promotes the development of related work, integrates detailed content, comprehensively handles problems, and finds problems in specific construction situations, so that they can be carried out in a reasonable position between buildings Relevant planning, carrying out related work, and making better use of natural ventilation capabilities, which can create a healthy development environment for people, so as to solve the problem of the orientation of the building in combination with the actual environmental situation, and design rationally. It can create good development conditions for subsequent construction, thereby improving the overall design level and effectively solving practical problems.[5] Introduce advanced design concepts, enable energy-saving and environmental protection development methods to play an active role in it, and improve the content of the design so that all aspects of the problem can be included.[6]

4.2. Reasonably carry out the corresponding building and house energy-saving shading design
Reasonably carry out the corresponding energy-saving sunshade design for buildings and houses, which is also an important aspect of development. The sunshade work is very important. We must effectively block the sun exposure, so as to reduce the direct exposure of ultraviolet rays to people's bodies. Bringing a lot of hazards. When designing, we must take into account the actual construction situation and local terrain, as well as different aspects of the irradiation conditions, and carry out comprehensive development, so as to make better use of the conditions.[7] So as to achieve better results, so that the effect of the sunshade design can better meet the actual development needs. Sun-shading design plays an important role in it. Effective sun-shading can reduce the indoor temperature and keep the room in a comfortable range. This can provide people with better conditions and improve the quality of the building.[8]

4.3. Carry out reasonable energy-saving design for building ventilation system
The building communication system carries out reasonable energy-saving design, which requires relevant designers to have an in-depth understanding of the concept of environmental protection and energy-saving design, and then introduce advanced technical means and the latest knowledge, according to the distance between the buildings and the arrangement method. In order to achieve better results, the
development of building ventilation and energy-saving design needs to comprehensively consider all aspects of knowledge and content. Only by grasping the beneficial information can we do the relevant work and improve the relevant design system is improved, and the design standards are improved, so that practical problems can be solved practically.[9]

5. Conclusion

Traditional design concepts can no longer meet the needs of people’s development. New knowledge and technologies are constantly evolving. Only a better grasp of key information, understanding of current market development needs, and emphasis on energy-saving design work, will be able to integrate new content into it, so as to perfect the building ventilation design work, so as to effectively solve the problems.[10] Nowadays, the development of society has higher and higher requirements for ventilation design. Only by continuously improving the development strength of the enterprise, grasping the latest development content, handling the problems in it, and comprehensively thinking about the problems, can we continue to develop and optimize. The design method enables the ventilation and energy-saving design to play an important role in improving the indoor environment of the building and providing people with better services.[11]

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