

## Construction of Green Hotel in China and its Implementation Path

Fei-long Liu

*School of Economics and Management Hunan Institute of Science and Technology, Yueyang 414006, China*

---

**Abstract:** The implementation of a resource-saving and environment-friendly construction is the realization of China's economic development mode shift in major strategic initiatives. The hotel industry has long been regarded as one of high energy consumption and high emissions of waste industry. Thus, how to reduce energy consumption and protect the environment, which has also naturally urged China's hotel industry toward face and solve realistic problem urgently. The construction of "green hotel" is an effective way to solve this problem. According to the basic content of green hotel construction requirements, if green hotel's construction want to be implemented effectively, Chinese enterprises must strengthen the hotel staff education and the awareness of the hotel green atmosphere; Implement the target assessment and improve the system of hotel environmental protection; Cultivate hotel staff good habits of environmental protection; Pay more attention to the scientific of the green hotel environment and utmost create the core area of the hotel green environment ; Strengthen the matching work of hotel facilities and equipment; Vigorously strengthen to promote hotel virtuous cycle of energy conservation and consumption reduction.

**Keywords:** Green hotel, resource saving, environment-friendly

---

### I. AN ANALYSIS OF THE NECESSITY AND URGENCY OF THE CHINA GREEN HOTEL CONSTRUCTION

The Communist Party of China's eighteen major report pointed out the full implementation of promoting all-round economic, political, cultural, social, and ecological progress. The construction of ecological civilization to the same position as the economic and political construction, which has fully proved that the party and the country's emphasis on related environmental protection to an unprecedented height, and releasing the signal of strong focus on environmental protection, resources recycle, emission reduction in the related field. It also fully shows that the construction of ecological civilization has related to the vital interests of the people and the Chinese nation's survival and development. Therefore, it is necessary to further the construction of resource - saving and environment- friendly society in the outstanding position in China's modernization development strategy.

The so-called resource conserving society refers to the entire social economy should be established on the basis of the resource conservation. Constructing a conservation-minded society is to production, circulation, consumption and other aspects in the social production through the means of perfecting the mechanism, adjusting the structure, in addition to take the market and administrative and other

measures to improve the efficiency of resource utilization conscientiously with minimal resource consumption to gain the maximum economic benefit and social benefit, so its core is to save resources.

The So-called environmental friendly society refers to a kind of social state which achieves the harmony between man and nature as the center and the harmonious coexistence of human as the goal. The construction of environment-friendly society is to follow the laws of nature and take conducive environmental protection modes of production, lifestyles and consumption patterns in order to establish benign interaction relations between the people and the environment within the scope of the bearing capacity of the environment and resources. Its core connotation is the coordinated and sustainable development of human production and consumption activities combined with the natural ecological system.

In essence, the construction of "two-oriented society" is the realization of China's economic development mode change of major strategic initiatives. The economic development is accompanied by the economic growth with the social comprehensive progress, which is the synchronization improvement of the economic quantity size and economic quality level. The economic development is accompanied by and social progress, which is of economic size and economic level of quality.

Therefore, China, currently in the transformation of the mode of economic development, is to realize the national economy from the previous "backward growth" to be based on technological progress "comprehensive development", namely "three transformations": from the investment mainly relies on exports for economic growth to rely on consumption, investment and export coordination for pulling change; from mainly relying on the second industry to lead the first, second, third, industry driven collaborative change; from mainly relying on material resources consumption to scientific and technological progress, workers quality improvement, management innovation. It is China that has made major changes which is the great practice of the scientific outlook on development in order to adapt the economic globalization, informationization and marketization with the new international economic situation [1].

And Green Hotel as for the sustainable development concept adheres to the clean production, advocate Green consumption, protect the ecological environment and rational use of resources, so it should consider focus on Green design, energy management, environmental protection and Green management and other several aspects. Building green hotel is not only the need of future sustainable development of hotel enterprises, but also the implementation of the Scientific Outlook on Development put forward by Central Committee for building resource-saving society and environment-friendly enterprises of the real requirements.

As early as in 1987, the United Nations World Commission on environment and development "our common future" in the report was released, the first time it linked to environmental problems and the development. The report had explicitly put forward: the fundamental cause of the serious environmental problems lied in the human development mode and development path. In 1991, "Prince Welsh business Leadership Forum created international hotel environment initiative" institution, which is a committee, composed of 11 world famous hotel management group by the British Prince Charles president. Subsequently, veteran from the top ten International hotel chain groups jointly initiated and established the International hotel association of environmental management (International Hotels Environment Initiative, IHEI). Thus, marking the environmental management of hotel industry is no longer a restaurant, a group behavior, but has become the behavior of the global hotel industry. In January 1995, the world trade organization was formally established, and held a number of international conferences on environmental protection and signed a number of international conventions and agreements

on environmental protection. Thus, it has paved the way for the development of the global green movement to a certain extent.

The hotel industry has long been considered one of the high energy consumption and high emissions industry. Generally speaking, when hotel is in the process of the operation, its energy consumption and material consumption accounted for two of its total operating cost greatly. According to statistics, China's food store water, electricity, coal, gas energy consumption has accounted for more than 30% of its operating costs. The hotel unit building area of urban residents is the average power consumption of electricity 10 times, and the daily per capita water consumption is 5 times more water for city residents. A building in the area of 80 thousand - 100 thousand m<sup>2</sup> large hotels, and annual consumption of about 130 thousand to 180 thousand tons of standard coal, the energy consumption is not less than a large factory. The total annual cost of disposable items a three-star hotel which has 150 to 180 rooms is about 260 thousand to 300 thousand Yuan. The hotel air conditioner will a large number of oil and gas, and kitchen Produce and discharge a lot of smoke emissions, and the rooms and washing will produce large amounts of sewage. In this way, how to effectively reduce the energy consumption and environmental protection will naturally become the hotel industry which must face the reality of the problem. So the implementation of the green hotel construction is the effective way to solve the problem. [2, 3].

Therefore, the implementation of green hotel construction is the future development direction of China's Hotel, which not only embodies the progress of the times and the city's civilization, but also reflects the humanistic care. Duration of environmental protection has become global extremely hot today. As the production of special products and resource consumption of large enterprises, the hotel should reduce resource consumption and provide health products under the precondition of satisfying the needs of guests as much as possible. With the most reasonable allocation of resources to ensure the good quality of service and management benefit and eventually realize the sustainable development of the hotel, it has obviously become the urgent need for the survival and development of the hotel industry in China.

## II. THE BASIC REQUIREMENTS FOR THE CONSTRUCTION OF GREEN HOTELS

According to the law of the People's Republic of China tourism industry standards of "Green Hotel" (LB / T007-2006) standard, the implementation of the basic requirements of China green hotel construction

should be mainly embodied in the following five aspects:

#### *A. Green Design*

Research shows that green building measures taken at the hotel when the construction and renovation can save the building construction operation cost and improve the labor productivity of employees significantly at the same time. Comprehensive measures for green building construction can make the hotel buildings in all relevant areas of the greatest environmental and economic benefits. Therefore, the introduction of the green building design can become the driving force for environmental protection.

#### *B. Energy Management*

Many environmental problems and energy use have direct or indirect relationship. Hotel is a very high level of energy consumption enterprises, and energy consumption depends on many factors, including geographical location, climate change, scale, operation time, system equipment, operation management, etc, so no two hotels are alike. Energy management is concerned with the utilization of energy, which is based on two aspects: First, the efficiency of energy use in the process of operation. Secondly, the efficiency of buildings, equipment and systems. Hotel energy management needs to have very clear principles or managed entry points.

#### *C. Environmental Management*

Hotel environmental management is a micro-management activity. Through the hotel management mechanism, organization, management model, service form, operating methods and other hotel management adjustment or reform of various factors, the establishment of appropriate in-house environmental management system so that the management of the hotel can meet the needs of environmental protection and the hotel's survival and development.

#### *D. To Provide Green Products and Services*

The hotel is the economic entity which combines tangible facilities with intangible services to the tourists and other guests to provide food, living, shopping, entertainment and other aspects of integrated services. Its products are divided into tangible and intangible part. The product in the hotel should not only meet guests' needs but also not affect comfort while reducing the impact of waste on the environment and resources as much as possible. In fact, the starting point for green products and service is to conserve resources and reduce waste. Thus, the hotel offers green service should follow three basic principles: First, the principle of reduction. Through

reasonable measures such as compacting hotel products, packaging and other simple methods to reduce the input of non-core products to achieve lower costs and reduce unnecessary wastage of resources purpose; the second is recycling principle. It means to use renewable resources as far as possible, and turn waste into treasure; the third is substitution principle. That is using non polluting supplies or regeneration materials frequently to reduce pollution.

#### *E. Strengthen the Social Environment and Economic Benefits*

Hotel is the society window and its behavior will cause radiation effects on society, which will naturally affect the other service industries and tourism consumers. Through the implementation of green management, staff and guests can foster awareness of environmental protection. At the same time, with the energy saving and environmental protection new technology and new equipment to promote the application, so that the hotel's energy consumption costs further reduced enhancing the economic and social benefits of the hotel[4].

### III. THE IMPLEMENTATION OF BASIC WAY OF THE CONSTRUCTION OF THE GREEN HOTEL

For the construction of green hotel, in the past, there is quite a few discuss. But from the perspective of the actual operation of the hotel, under the background of construction of "two type society", according to the requirements of national standards in our green hotel construction, to be more effective to the implementation of the construction of green hotel, the hotel industry should be more effort from the following several aspects:

#### *A. Strengthen Staff education, Strengthen the Awareness of the Hotel Green Atmosphere*

In order to strengthen the management and employees' environmental consciousness, the hotel should be timely organize every department, the shift from the "create a green hotel, hotel competitiveness" of the study and discussion, Systematic learning of energy management, environmental protection, green rooms and green food, green management basic theory and its importance to the operation of hotel. Only through learning, can make the hotel staff to learn energy resource consumption is the important factors that affect the environment, and therefore must be prepared to reasonable consumption energy, reasonably control the waste gas and wastewater emissions, enhance the hotel garbage classification processing, thus providing green room, green food and so on, to meet the hotel guests green consumer demand [5].

*B. The Implementation of Target Assessment,  
Improve the System of Hotel Environmental  
Protection*

In order to make environmental protection work more practical, the hotel should make special environmental assessment objectives, adhere to the basic principle of rewards and punishment which is clear, in order to "safety, health, environmental protection" as the core of the three concepts, comprehensive renovation hotel internal and external environmental health, strictly to good food with purchase and service personnel health, ensure food safety and public health security. The hotel in the ventilation and disinfection, health management to the standardization and institutionalization. And on this basis to strengthen and perfect the system of environmental protection, such as "sunshine" kitchen health management and system for the storage of food, food-storing in strict accordance with the health standards, students cooked separately, hot and cold, in order to ensure the cleanliness of food; Rooms every day insist on room available for dust removal, regular cleaning and disinfection, can make the guests feel comfortable and neat; Dropping points clear in time the garbage every day, in order to prevent the waste of corrupt metamorphism and flies breeding; Hotel guest room can also be placed "everybody to participate in water conservation", "if you want to change the sheets, please put on the pillow," the "I", "please protect our earth", "washing supplies every year increase in the pollution of water quality, we sincerely request your help reduce such items, the usage of" environment such as signs, to remind the hotel guests to participate in environmental protection work together, to better maintain the operating environment of the hotel.

*C. Cultivating Hotel Staff Good Habits of  
Environmental Protection*

Hotel staff good habits of environmental protection should be based on to start from the intravenous drip, it is based on the formulation and implementation of various environmental protection system and hotel staff environmental awareness rising. Hotel in the process of operation, therefore, should always be emphasized staff good habit of environmental protection gradually formed. Requirements such as hotel employees in the work to do with close the faucet, the necessary human leave lights went out, throw the garbage classification and so on good habits. Thus, not only for the hotel to save a lot of resources, but also can effectively prevent the waste pollution to the environment, thus to beautify the environment, and gradually form the hotel environmental human atmosphere.

*D. Pay Attention to the Scientific Hotel Environment  
Greening*

Green hotel's fundamental purpose is to improve the guests and staff's living environment and working environment, improve the quality of consumption. Hotel implementation of indoor and outdoor greening, therefore, must according to the plant world based on objective laws, drive midge sterilization and distinguish between different tree species in the health care function of the fresh air, is given priority to with tall trees, the formation of the multilayer structure of Joe, irrigation, grass grow different plants and reflect different azimuth, make human body can be beneficial gas by absorption of plants and improve physical fitness, regulate mood, promote health. Both can fully display and beautiful, and to maximize the plant itself environmental protection function.

*E. To Build the Hotel's Core Region Green  
Environment*

Guest room is the main part of hotel management project. Create a green hotel guest room atmosphere is particularly important. People know that smoking is harmful to health, passive smoking also leads to people's physical damage. Therefore, the hotel can create room for smokeless room, and setting up non-smoking signs, guest room should be a consumables from plastic packaging to the environmental protection paper, consumable to minimize the use of plastic products, to help protect the ecological environment; Hotel rooms should cancel disposable shampoo and bath, and use soap liquid device, can not only reduce waste, and convenience of the guests, also conducive to environmental protection; Towels and bedding shall all be made of pure cotton, soft and appropriate; Per room can also be equipped with green plants to purify the air, which is beautiful and environment.

Meet the demand of the environmental health of the guests, but also should always pursue the goal of hotel restaurants. Hotel restaurant to meet the needs of special groups, should also be special setting non-smoking section or smoke-free rooms like room, create a healthy environmental protection area; Hotel should also establish long-term cooperative relationship with pollution-free vegetable base, to ensure access to fresh green vegetables, no pesticide residues and other green food, and can develop green recipes, to advocate green food consumption; The guest when have dinner, strictly provide the dining-table centiliter, encourage guests to the rest of the food packaging, for remaining liquor storage, can attract guests held again, another customer is conducive to timely and reasonable consumption; When guide guests dining food consumption, should be timely remind guests order not too much, advocate "consumption without waste"; In the process of room

service, should be banned the use of disposable chopsticks and disposable foam tableware, when the guest finished eating, tableware should be back in time, lest affect guest room sanitation.

#### *F. And to Strengthen the Hotel Facilities Matching*

Hotel construction should not only emphasize environmental protection design. And more on its facilities installation and matching should pay attention to environment protection. Such as the selection and installation of central air-conditioning equipment, can first consider energy conservation and environmental protection of lithium bromide direct-fired machine, try to put an end to freon pollution to the atmospheric ozone layer; Kitchen stoves hookah cover, should be adopted to reduce the air pollution caused by lampblack; Energy-saving lamps should be common to replace incandescent lamp, in order to effectively save power; Hotel according to their own conditions as far as possible by building automation technology to effectively control the hotel's major regional air conditioning start-stop and temperature regulation, can not only easy to use, but also save energy.

#### *G. Strengthen to Promote Hotel a Virtuous Cycle of Energy Conservation and Consumption Reduction Work for Saving Energy and Reducing Consumption*

The hotel should be according to own actual situation, adjust measures to local conditions to take some necessary measures. In order to save water, for example, the hotel can by limiting the flush toilet water tank, in order to reduce the toilet water or too much surplus water phenomenon. Hotel guest room

and bathroom to all employees for hybrid water-saving faucet, shower when one-time set of hot and cold water ratio, halfway shut after water don't have to move, not only save time and effort, and can save valuable water resources; At the same time, the hotel can also take measures to recycle the laundry steam heat used to heat the water. According to the experiment, a 250 - room hotel if such measures are taken, it can produce life of about 100 tons of hot water every day, every day can save diesel about 270 kg, a year can save about 100 tons of oil, the energy-saving effect is very significant [6].

#### ACKNOWLEDGMENT

This article has been funded by scientific research project of education department of hunan province, China (project no. : 16C0735) hereby acknowledge.

#### REFERENCES

- [1] C. X. Zeng, "Under the background of 'two type society' livable eco-city construction discussion - in Hengyang, Hunan province, for example" *J. Journal of Anhui agricultural science*, October 2009.
- [2] M. C. Li and W. Wei, "Nearly ten years in our country green hotel research review" *J. Journal of south China university of technology (social science edition)*, January 2010.
- [3] Y. Q. Shen, "The hotel green management, discussion", *J. Modern hotel*, August 2007.
- [4] Hu Aqin, "The problems existing in the development of China's green hotel and solving strategies" *J. Journal of modern business*, September 2007.
- [5] X. C. Yang, etc, "Green hotel core competitiveness study" *J. Journal of anhui literature*, October 2008.
- [6] F. L. Liu, "The green must pay attention to several basic work" *N. China tourism news*, February 2011.