

## The Hotel Theretech Nologists at the Service and to the Process of the Analysis of the Effects of the Environment

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**Abstract:** In the xxi century in the whole world hospitality and tourism field of “green technology” has become a pressing task to apply to wide. “Green” building main purpose is to reduce the consumption of energy and resources. At the same time, all of the hotel in the process – engineering research, project development, construction, operation, large repair, rebuild, and even providing a comfortable environment for guests in demontaj is important. The last time in “green” technologies aimed at increasing productivity through the application of multiple projects little work to startdid. International hotels environment initiative (IHG) combines the world's leading hotel companies in the area to ensure environmental and social responsibility. The main objective of this project is shown in practice to the importance of environmental and social responsible business provides.

**Keywords:** green technology, hospitality sector, atrophic-protection of the environment, social responsibility, environmentally friendly, recycling systems, stable tur.



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**To enter.** Environmental sustainability, aiming to provide a balance between operational efficiency technology for hotels and guest satisfaction plays an important role. All of us certain energy saving systems, water saving technologies and means of reducing waste, combining to achieve cost savings, and can significantly reduce the impact on the environment of the hotel. This innovative investment to add to the chance, not now-to be competitive, stability, and environmentally friendly travel looking for the answer to modern standards of hotel services will increase the need to attract readers. The future of smart, sustainable hospitality, clean and green enterprises were protected from the use of technology to create the main focus. Uzbekistan practical and inexpensive for a yors from the introduction of sustainable technologies in the field of ecological tourism allows his business to be leading to the hotel. Traditional and innovative products in the combination of in case O'time, they keep their culture and the charm of uzbekistan hotel at the same time they can contribute to more stable and sustainable future.

Hotels in the context of the following example we can make to the basic concepts of sustainable development. Stability of a modern hotel that combines the principles of the obvious advantages. This not only reduce costs by optimizing the use of resources, but also improve the brand image of the hotel, visitors and increase the commitment of interested parties, including investors, tour

operators and engineers building regulation satisfaction is always hope,. The other main advantage and brand differentiation to strengthen the authority on corporate responsibility and sustainability initiatives because the hotel can be display as a leading european tourism involving the cooperation of the company. In addition, compliance and risk management will improve this in the future and decreases the likelihood of the court, the fine increases resistance to environmental changes regulating of the hotel is unavoidable. All of these benefits means exercising the basic principles of sustainable business covering the four main areas:

Environment. Currently the main environmental criteria for responsible consumption of resources, reduce waste, sustainable procurement and environmental pollution is reduced. Accomplished them, placing contributes to reduce the environmental and natural tools to maintain the attractiveness of uzbekistan traces. People and the economy. The socio-economic sphere criteria oriented to the local economy thrive, be the first place puts the wellbeing of guests and staff for a comfortable work environment. The adoption of these principles point a positive impact on the life of the local community and tourists residential buildings for workers and create an environment that ensures a comfortable and inclusive. The activity of the territory of the hotel which indicates the conservation of the historical and cultural heritage is an important part of sustainable development. A true cultural practices, support, and respect the local customs of the specific features of the region and the guests will help to create a deeper experience for the protection of specific regional consolidation.

### **Analysis of literature on the subject**

Sociology sciences E. V. Pecheritsaning opinion, “environmentally friendly hotel also in this property, large spending power to reduce the effects of the environment in the room which the hotel”. These hotels often called eco hotels or the hotel green. Also, it is saying: “environmental innovation-this new product technologies and production methods and the organization of new or modified processes, methods, systems consists of social programs, using them you will improve the environment of different areas and activities in the area of environmental risk, pollution or other will reduce the negative environmental consequences” that have expressed their opinion.<sup>1</sup> ”Environmental resources to the development and application of efficient technologies, innovation, creation of environmentally friendly products, the introduction of new methods of organization of production, for example, environmental management, environmental and other marketing include and tabiatdan innovations in the use of the results of applying economic, environmental, social and other effects. This definition because the truth is, the positive effects of environmental innovation in a positive way will show up in all areas of human life”- that will interpret their vision Yashalova N.<sup>2</sup> the idea of environmental innovations have appeared relatively recently. Eco-innovation information about claude fussler and james peters can be found in the book of first. Of them "eco driving–Athletes: “a breakthrough Discipline for innovation and Sustainability” in 1996 the book was published. The authors eco-innovations "and that gives value to business customers, but the impact on the environment is significantly reduced which new products and processes" -that description on average.

### **Research methodology**

The effective management of sustainable practices in the hotel and begin to develop a strategy that meets the standards of legal rules. Thus, marketing, teaching staff, increase awareness of the guests and create a comfortable environment to enter. The systematic approach to problems zamonaviylik successful adaptation to the hotel and allows you to integrate sustainability into all

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<sup>1</sup>Е. В. Печерица. Российский опыт применения экологических инноваций в средствах размещения (на примере Северо-Западного федерального округа). 42 (231) – 2013 39 Стратегия развития экономики

<sup>2</sup> Н.Н.Яшалова, канд. экон. наук, доцент,1 г. Череповец Экологические инновации как приоритетное направление «зеленой» экономики. Вестник УрФУ. Серия экономика и управление. № 5/2012

aspects of their business. Energy saving-this is one of the main criteria in the evaluation of the environmental safety of accommodation. Energy consumption from 5 until 8 percent of operating costs (in some cases can be up to 20 percent) and is responsible for 60 percent of co2 emissions. Technologies, the design of buildings and reduce the costs of municipal services through operating practices through certain hotels optimize energy consumption, reduce its carbon footprint and create a more sustainable business model.

The main events that consume energy in the hotel:

1. HVAC (~45%). The largest energy consumers of the hotel's hvac system, often make up 50 percent of total energy consumption. This system is optimized for the comfort of guests kept with the smart technology, can lead to energy savings significantly.
2. Lighting(~18%).All about the lighting in the hotel energy costs make up 20%. Along with this, the transition to led lighting energy consumption up to 75% reduces and see which significantly reduces maintenance costs due to long life (akkord lamp serves more than 25 times).
3. The production of hot water (~14%). To keep the appropriate temperature and heating equipment to ensure proper operation and management can reduce water heating costs. Indeed, by applying some simple energy saving measures can save up to 20 percent of heating costs.
4. The operation of the kitchen (~13%), washing (~4 %), Others (for example, office equipment, tvs and others) (~6%)

Both the reduction of energy intensity of three main stages: analysis of energy consumption, energy saving practices , and the introduction of smart technologies to attract guests and employees. Energy analysis of fuel in the hotel and all the details of the system from energy use study. This process starts from the meticulous data gathering associated with energy consumption and assess equipment condition and performance management methods to analyze and utility payments are included. Provides a systematic approach to the management of energy resources, the main goal of this regular monitoring and data you can't live without folding. Energy consumption into account the first step is to take the organization, i.e. for a certain period of electric energy and to collect information on the consumption of other resources.<sup>3</sup>

Each type of energy (e.g., electricity, gas) of the total costs and the size of the consumer from the use of which is recorded on the months of the table allows the calculation of energy efficiency indicators. Usually the burden of the energy efficiency index energy consumption by taking the square of the hotel room (kw/hour/m2) or the number of guests (kw/hours/guest /night) is determined as the ratio of. Upon the completion of a complete picture of the structure of energy consumption, lowering his level, you identify your goals and to achieve them you can set the time. Constant monitoring and will help you evaluate the effectiveness of measures implemented to measure indicators. True and you can achieve goals that staff, management and guests to take an active part in increasing the energy efficiency of motivate.

**Analysis and results** Targets after the installation and comprehensive analysis of appropriate technologies and practices, you have the choice of smart energy-saving. According to studies, the hotel also have official energy savings program simple and cheap energy saving orapplying the consumption of the world by 10-25% by may decrease. However, the implementation of this operation, all the hotel staff and guests won't be able without the involvement of effective enough. The highest level of loyalty from the origin on energy efficiency and energy saving policies should be supported with the exact job description and general.

Practices to reduce costs on energy. Technology and methods. -Conduct an energy audit to determine the potential heat loss and energy saving of buildings. The programmed using

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<sup>3</sup> Helvetas в рамках проекта “Vocational Education on a Moving Ground»

thermostat, climate equipment work time, make a schedule and then put it off. Thermostat draft to the location, sunlight or heat sources such as radiators or make sure that it does not affect the internal hearth.

N	thicker and room	temperature
1	guest rooms	19-21°C
2	guest bathroom	26-27°C
3	yolaklar	19-21°C
4	Kitchen	16-18°C
5	restaurants and cuisine of	22-24°C
6	Bars, a place to rest	for 20-22°C

#### 1-picture. Of them and in the room is recommended the temperature<sup>4</sup>

- re - renewable energy sources use of opportunities to seek (solar panels, wind generators , and others), hot water losses from excessive heating, and the staff or any of the guests to get burn can result. The optimal temperature of hot water stored 60°C make up, this is enough to kill legionella bacteria.
- all the bulbs in the lighting device of energy-efficient led bulbs replace with.
- toilet in the stairs, in and in technical areas, motion and light sensors to install. Minimallashtiriladi external lighting and / or delete equipped with automatic sensors may be according to the purpose.
- make sure the lighting etiketlanganligiga to manage certain elements, especially when they are combined.
- natural light in common areas and use aeration to the maximum extent.
- ventilation, air conditioner and heating system mavsumoldi and periodic maintenance.
- lamps and shades, as well as electric pots from dust cleaning on a regular basis.
- black veil blocking access to make sure that does not put the heating equipment.
- to create written procedures and employees to excessive overheating of the rooms, closed doors and windows bad, switched the lights unjustified ordered to be reported or equipment. The front office.
- computers, printers, coffee machines and other equipment for automatic "sleep mode" transition active, as well as use (a break or during a meeting) monitors implementation of the policy to delete.
- work lights at the end of the day , and implementation of a policy to turn off equipment, and fill it with stikerlar note, the key place close to them.
- purchase of office equipment, while having the highest energy efficiency class of model selection.
- the main access door closed for storage without that reduce heat loss; natural light and use it to the maximum extent aeration; kitchen: cookware and cooking pots in the right size (compared to the stove and the fire); to prevent heat loss during cooking baking dishes and cookware.
- frequent opening of the door to avoid creating a list of content in the cooling device is important. -Cooling than 1°C if the set temperature, the cooling capacity of spending has 2-4% and can reduce. Is plugged in, make sure the working temperature recommended by the

<sup>4</sup> Helvetas в рамках проекта «Vocational Education on a Moving Ground»

manufacturer. -muzdan follow the rules of the order to fall at least a month or two once or according to the manufacturer's recommendations.

- In the seals of the oven door and should be checked every week to ensure minimal heat loss and qistirma be firmly established; -dishes washing machine only when you launch the full download. Guest rooms: -buy new riding forbid to 1 kw day/hour should not consume more energy than.
- automatic card keys in the room if stikerlarini note to guests to offer.
- prepare note cards. the air conditioner is switched on, close the window.

The management of water resources. The level of water consumption for the building of accommodation is one of the main criteria of sustainable development, environmental responsibility, also takes into account the effectiveness of the use. Clean water in our planet is about 1%-rivers, lakes, the atmosphere, and is located in the water under the earth. However, the growth of the world population and per capita water consumption as a result of this rapid growth in demand, with a percentage of under risk. Our problems with climate change is increasing our forecast less because the weather conditions in which more and more accurate. Hotels, by their nature, they will consume too much of water resources of the average of the costs of municipal services in the hotel, 10% water on comes. However, the implementation of sustainable practices, the overall consumption by 15% can be reduced.

N	in the hotel last water consumption:	water consumption of
1	guest rooms	(~30-35%)
2	Kitchen/wash bottles	(~13-22%)
3	Public toilet	(~5-20%)
4	washing	(~5-17%)
5	HVAC	(~3-16%)
6	Pool	(~2-5%)
7	Zone irrigation	(~1-4%)

## 2- picture. first stage, both the reduction of water consumption<sup>5</sup>

The first stage of the reduction of water consumption water audit is to conduct more in both objects. The analysis of this process to regularly monitor indicators to include the counter and utility payments, this allows you to determine the current level of water use. To create a full picture of the main optimization will help to identify the main point of consumption. Note of the total consumption of water for effective analysis and calculate the one night of the use of indicators, it is recommended to visitors. This allows you to better understand how the main indicators for rational use of water resources and water will serve as the basis for setting goals to reduce costs. Goals of such staff, management and guests to encourage them to participate in the process, you should be able to reach. The sustainable management of water requires team work, all the parties involved here , and I will try together. However, employees or guests remain open the crane, y no technologicalsolution does not give you the results. All employees are to the success of the program, its goals and it is important to be aware of the role to implement it. Increase awareness and practical measures to reduce water use study on sustainable water use in the way of the main steps. On reducing water consumption instructions. Technology and use of methods:

- sanitary - tesisat the prevention of leakage in the system-a small toilet tank leakage (e.g., in minutes of 0.25 l/min coffee cups or small) may seem to be insignificant and does not

<sup>5</sup> Helvetas в рамках проекта "Vocational Education on a Moving Ground"



consider for a long time, but lose about 360 liters of water during the whole day, this leads to financial costs.

- water saving water consumption by 8 liters in the minutes of the crane the crane to the maximum, as well as nozzle aerator set. At the beginning of the minutes should not exceed 9 liters in the shower; -install the toilet to wash two times to have a system half - full for a wash no more than 3 liters and for drainage more than 6 liters.
- A variety of devices can be in the form of adjusting the size of the building: brick, stone, or plastic bottles filled with water. To reduce the amount of washing water are placed into the container term for spending. However, they would fail to interfere with the flow of water or the drainage mechanism to make sure that it is important.
- spa and pool to the toilet in public places, such as the flow of water equipped with a button for a certain period. -heat loss and water evaporation avoided to close the tent with pool.
- clean the water of the ditches in the territory of the enterprise and re-run. Washing and cleaning. usual , no more than once every 3 days and sheets sochiqni replacement program (or according to guest's request) is made out, along with the appropriate equipment, we should seek the same room with plates and accurate information for staff training will be held. - washing machines and dish washing machine can run with a full load only.

Green fields. -If possible, the local climate and soil conditions which is most suitable types of vegetable crops to local please. Such plants less water, pesticides and require care.

- The collection of rain water that can be used for watering plants and equipment for the storage tank or underground tanks, we should seek.
- Do not use hoses for watering the plants , and if possible, do not use the lawn sprayer. Well-designed and operated drip irrigation system will deliver the water to the desired location on a regular basis.

**Conclusions and proposals** to the environmental goals of the organization's goals (economic and other activities for the purpose of or with the closely related 1 - partial drew attention to the issues in this chapter, in particular, during the period of the evolution of the economic method of economic activity is shown when changing the appearance of any problems or risk to the business goals. In the last 3-4 years faced the challenge of new business organizations should take social and environmental responsibility in the areas that are reflected in their goals zimmalariga. Objectives in the field of the environment (environment, resources for the purpose of saving, environmental goals in the field of security and others), they are the leading organization in the natural environment to keep you interested - is accepted by the world. For commercial purposes can be considered primary (as a rule, the business created to perform them exactly). Contrary to the commercial purpose comes partially because social and environmental goals significantly increases production costs. For this reason, despite negative external influences of activities for a long time, the main business of motivation to get the benefits of it.

Only in recent decades in the form of social and environmental relations in the activities of the organization began to grow, however, as a rule, this as their goal, but to recognize problems in connection with the business of the organization and the increase in requirements to demonstrate that he is ready to settle (i.e. for the benefit of foreign interests). From the other side, the competent social and (or) environmental management activities opt - mallashtirishga (the benefits of internal implementation) allows organizations established by the husband of the commercial goals and the same - will help the swelling. Thus, the main goal of environmental protection and environmental management activities of the organization of commercial success to ensure the company's competitiveness in the long term can be considered. The purpose of the organization's environmental targets and environmental management to reduce the negative impact of

environment and the interaction with the environment of the enterprise associated with the effect of optimization in the broad sense of the word. To understand them, first and foremost, on how to optimize the interaction of organizations and the environment, it is important to know that there are opportunities.

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