

THE IMPORTANCE AND TYPES OF ENERGY RESOURCES IN THE HOTEL INDUSTRY

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Annotation: This article examines the importance and main types of energy resources used in the hotel industry. It highlights the role of electricity, heat, natural gas and renewable energy sources in ensuring the efficient operation of hotels and high-quality guest service. The article emphasizes that rational and efficient use of energy resources not only reduces operating costs, but also minimizes the impact on the environment. Particular attention is paid to the introduction of energy-saving technologies and sustainable development principles in the hospitality sector. In addition, the article analyzes reforms in Uzbekistan aimed at increasing energy efficiency, developing renewable energy and training qualified specialists in this field. The practical importance of training programs, energy management systems and international cooperation in increasing energy efficiency is also discussed.

Keywords: hotel industry, energy resources, energy efficiency, renewable energy, electricity, thermal energy, natural gas, sustainable development, energy management, green economy.

ЗНАЧЕНИЕ И ТИПЫ ЭНЕРГЕТИЧЕСКИХ РЕСУРСОВ В ГОСТИНИЧНОЙ ИНДУСТРИИ

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Аннотация: В данной статье рассматривается значение и основные типы энергетических ресурсов, используемых в гостиничной индустрии. Подчеркивается роль электроэнергии, тепла, природного газа и возобновляемых источников энергии в обеспечении эффективной работы отелей и высокого качества обслуживания гостей. В статье акцентируется внимание на том, что рациональное и эффективное использование энергетических ресурсов не только снижает эксплуатационные расходы, но и минимизирует воздействие на окружающую среду. Особое внимание уделяется внедрению энергосберегающих технологий и принципов устойчивого развития в гостиничном секторе. Кроме того, в статье анализируются реформы в Узбекистане, направленные на повышение энергоэффективности, развитие возобновляемой энергетики и подготовку квалифицированных специалистов в этой области. Также обсуждается практическое значение программ обучения, систем управления энергопотреблением и международного сотрудничества в повышении энергоэффективности.

Ключевые слова: гостиничная индустрия, энергетические ресурсы, энергоэффективность, возобновляемая энергия, электроэнергия, тепловая энергия, природный газ, устойчивое развитие, управление энергопотреблением, зеленая экономика.

Introduction

The hotel industry is one of the modern service industries, the effective functioning of which largely depends on the rational use of energy resources. Energy resources in hotels play an important role not only in ensuring daily operational processes, but also in creating a high level

of comfort and quality of service for guests. In particular, the operation of heating, cooling, lighting, water supply, ventilation systems and various household appliances directly depends on energy supply. Today, the main types of energy resources in the hotel industry include electricity, thermal energy, natural gas, renewable energy sources (solar, wind, etc.). The effective use of these resources not only reduces economic costs, but also significantly reduces the negative impact on the environment. Especially in the context of increasing global environmental problems, the introduction of energy-saving technologies and adherence to the principles of sustainable development are of urgent importance. Therefore, studying the importance of energy resources in the hotel industry, analyzing their types, and identifying ways to use them effectively is one of the important scientific and practical issues of today.

Results and Discussions

Based on the Resolution of the President of the Republic of Uzbekistan dated April 9, 2021 No. PQ-5063¹ Resolution of the President of the Republic of Uzbekistan, dated 09.04.2021 No. PQ-5063, Resolution of the President of the Republic of Uzbekistan dated June 2024 No. 222 "Additional measures to increase the efficiency of the use of energy resources" Resolution of the President of the Republic of Uzbekistan, dated 11.07.2023 No. PQ-222² and the Order of the Ministry of Energy of the Republic of Uzbekistan dated September 6, 2024 No. 128 Resolution of the Cabinet of Ministers of the Republic of Uzbekistan, dated 11.03.2003 Issue 128 The "Training Center" department was established in October 2024 as part of the National Research Institute for the Use of Renewable Energy Sources under the Ministry of Energy. This center aims to support the development of the "Green" economy and "Green" energy in the country, expand the use of renewable energy sources in economic sectors and the social sphere, and retrain and improve the skills of employees and specialists of ministerial organizations of the republic in improving energy efficiency.

Uzbekistan has effectively established a system for training specialists in the field of energy efficiency and the use of renewable energy sources, which will serve the sustainable development of the national energy system in the future³. As part of the reforms being carried out in the energy sector of Uzbekistan, training qualified specialists, introducing modern energy management systems, effective use of renewable energy sources and thorough study of energy saving technologies are considered one of the important directions of the country's economic development. These training courses are of great practical importance. Participants will acquire not only theoretical knowledge, but also experience applied in real projects. For example, within the framework of the "Energy Manager" training course, participants will acquire important skills in energy auditing and installation of energy-saving devices.

During the training course, there is also an opportunity to participate in practical seminars, experience exchange programs and laboratory work organized by Japanese experts. Also, within the framework of the training courses "Energy Efficiency in Buildings" and "Use of Renewable Energy Sources", participants will get acquainted with modern methods of energy saving technologies and learn new innovative approaches to increasing energy efficiency in buildings and structures. For example, during practical training sessions organized in collaboration with the German Academy of Renewable Energy Sources, participants will gain knowledge and experience in the use of solar panels, wind turbines and biogas technologies. These practical

¹ O'zbekiston Respublikasi Prezidentining qarori, 09.04.2021 yildagi PQ-5063-son - <https://lex.uz/docs/-5362032>

² O'zbekiston Respublikasi Prezidentining qarori, 11.07.2023 yildagi PQ-222-son - <https://lex.uz/uz/docs/-6531520>

³ RENAC (Renewable Energy Academy). (2024). Qayta tiklanuvchi energiya manbalaridan foydalanish va energiya tejash texnologiyalari bo'yicha amaliy kurslar. Berlin: RENAC nashriyoti.

training sessions serve to form knowledge that specialists can directly apply in their future work. The purpose of the training courses is not only to improve the skills of existing specialists, but also to train new personnel, developing them in accordance with international requirements. Therefore, special laboratories, energy audit equipment, training bases for the use of solar panels and energy-saving technologies have been established to provide course participants with practical skills. As part of the reforms being implemented in the energy sector of Uzbekistan, the issues of increasing energy efficiency and the proper use of renewable energy sources are gaining urgent importance. Saving energy resources and introducing environmentally friendly technologies on a global scale are one of the main conditions for sustainable development. Therefore, the government of Uzbekistan, drawing on international experience, is paying special attention to training specialists in the fields of energy management, renewable energy technologies, and energy efficiency. Analysis shows that through these courses, representatives of state organizations, industrial enterprises, and the private sector have gained a deep understanding of energy saving methods, the advantages of renewable energy technologies, and their economic efficiency⁴.

Conclusion

In conclusion, energy resources in the hotel industry are of great strategic importance, they are one of the main factors in ensuring the quality of service, economic efficiency and environmental sustainability. Electricity, heat resources, natural gas and renewable energy sources ensure the uninterrupted operation of the hotel infrastructure and create comfortable conditions for guests. At the same time, the effective and economical use of energy resources allows the hotel to reduce costs, increase competitiveness and meet environmental protection requirements. In modern conditions, increasing energy efficiency, introducing innovative and "green" technologies remains one of the important directions in the sustainable development of the hotel industry. In the future, optimizing the use of energy resources in the hotel industry, widespread introduction of renewable energy sources and improving energy management systems will further increase the efficiency of this industry.

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