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Solar Water and Air Heating Systems: Technical Aspects, Their Current and Future State

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Electricity is essential for human life, but growing demands for energy, high cost, limited fossil fuel resources, environmental pollution, and global warming through the greenhouse effect are the reason why renewable energy technologies, over about three recent decades, are seen as cost-effective and environmentally sustainable energy sources. Investments in the development of capacities of renewable energy sources have exceeded the investments in increasing the capacities of fossil energy sources in the last ten years. Solar heating systems are replacing the use of electricity or gas almost all over the world in order to have a high standard of living for all users of solar energy or other renewable energies. The overview aims to present the technical aspects of solar water and air heating systems, economical methods and ways of production, use and energy conservation, their current states, and scientific developments to improve their use in the future. A particular analysis is dedicated to the actual state of renewable energies in Albania.

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