

O 26. SUSTAINABILITY OF ENERGY SUPPLY IN THE CEMENT INDUSTRY

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ABSTRACT: Various roadmaps are drawn in the industry to reduce dependence on fossil fuels and to gain energy. In the cement industry, the use of waste in energy recovery is a very convenient method. This article details the use of waste as an energy source instead of fossil fuels in cement. Substituting waste for non-renewable fuels provides multiple advantages such as efficient use of energy, independence on fossil fuels, prevention of environmental pollution, reduction of waste volume, contribution to national economy, saving of greenhouse gases, conservation of natural resources and reduction of mining needs. Process conditions of the cement industry are different from other industrial sectors, providing an ideal environment for waste use. Combustion of waste does not have any effect to increase the production of cement emissions that occur under normal conditions, but it also helps to save investments in waste incineration plants. Co-processing of waste has no negative impact on the environment and the technical quality of the product. In this article, it has been shown that how the co-process waste saves energy with energy recovery at 2017 and provides safe and robust solutions for the environment and the energy supply.

Keywords: *Cement, enery, waste.*