



An overview of energy savings measures for cement industries

N.A. Madlool^{a,c,*}, R. Saidur^{b,c}, N.A. Rahim^c, M. Kamalisarvestani^b

^a Department of Mechanical Engineering, University of Kufa, Faculty of Engineering, 21 Kufa-Najaf, Iraq

^b Department of Mechanical Engineering, University of Malaya, Faculty of Engineering, 50603 Kuala Lumpur, Malaysia

^c University of Malaya, UM Power Energy Dedicated Advanced Centre (UMPEDAC), Level 4, Wisma R&D UM, 59990 Kuala Lumpur, Malaysia

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ABSTRACT

Due the advances in the industrial processes, in which the cement industry is a major contributor, energy consumption and greenhouse gas emission has increased significantly. This paper reviews previous studies on energy saving, carbon dioxide emission reductions and the various technologies used to improve the energy efficiency in the cement industry. Energy efficiency measures for raw materials preparation, clinker production, products and feedstock changes, general energy efficiency measures, and finish grinding have been surveyed. It was found that the largest recorded amounts of thermal energy savings, electrical energy savings and emission reductions to date are 3.4 GJ/t, 35 kW h/t and 212.54 kgCO₂/t, respectively.

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* Corresponding author. Tel.: +60 173 900 518.

E-mail address: dr.naseer1978@gmail.com (N.A. Madlool).