



Alternative fuels in cement industry – possibilities and limitations

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Abstract

The use of different types of waste with high caloric value as alternative fuels in the cement industry has been developed and widely spread during the last few decades. Due to technological specifics of the production process such materials could be successfully and safely used without increased effects on the environment. Alternative fuels need to be aligned with regulations and process requirements and the strict control over alternative fuels composition and caloric value, process parameters, products and emissions in the environment should be assured for such use. In the contribution the example of use of alternative fuels in the case study cement plant is presented stating also requirements, limitations, possibilities and benefits as well as further directions.

Key words: alternative fuels, waste, cement industry.

Alternativna goriva v cementni industriji – možnosti in omejitve

Povzetek

V zadnjih nekaj desetletjih se je razvila in široko razširila uporaba različnih vrst odpadkov z visoko kalorično vrednostjo kot alternativnih goriv v cementni industriji. Zaradi tehnoloških značilnosti proizvodnega procesa se tovrstni materiali lahko uporabljajo uspešno in varno brez povečanja vplivov na okolje. Alternativna goriva morajo biti skladna z zakonskimi in procesnimi zahtevami, zagotovljen mora biti strog nadzor nad njihovo sestavo in kalorično vrednostjo, procesnimi parametri, proizvodi in emisijami v okolje. V prispevku je predstavljen primer uporabe alternativnih goriv v cementarni, podane so tudi osnovne zahteve, omejitve, možnosti, prednosti ter nadaljnje usmeritve.

Ključne besede: alternativna goriva, odpadki, industrija cementa.