ENERGY,PROTECTING MAN AND ENVIRONMENT

Technology Offer

Thermal exploitation of waste products as derived fuel

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Abstract

A German company is active in the field of industrial plant engineering. The new method allows the addition of waste products as derived fuel for thermal processes during the production of clinker (raw material for the production of cement). Waste products like sludge, meat-and-bone meal, plastic chips and others lead in this process to a reduction in the demand of primary fuel. They are looking for commercial agreement with technical assistance.

For further information (including IPR status) please contact:

Susanna Chericoni
Phone: 39 050 931620
Fax: 39 050 931640
Email: s.chericoni@cpr.it

Description

Waste products are transported from a silo to a burner lance using a pneumatic conveying system and a doser and is burned together with the primary fuels. This process operates continuously and adjustable and secures a constant temperature in the rotary furnace.The constructive design of the entire complex (bunker with extraction technology, dosing technology, transportation system to the burner lance) ensures the simultaneous utilisation of different waste products for the thermal process.The economic benefit of this method lays in the construction of just one plant for different waste products. At the moment there is one plant for each kind of waste necessary. The capital expenditure for one entire complex is 300 to 500 TEUR. With the new technology a company (e.g. cement works) needs just one plant with costs only about 20 percent higher than the conventional capital expenditure.

Innovations and advantages of the offer

Formation and securing a continuous, controllable and adjustable process for different material properties of the waste products.
Usage of different waste products as derived fuel in an industrial used furnace.