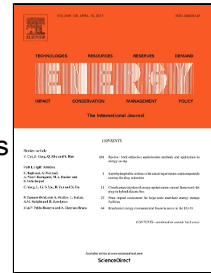


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Energy Benchmarking of Cement Industry, based on Process Integration Concepts

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Highlights:

Applying pinch analysis modifies the pyroprocess to decrease the energy consumption.

Pinch analysis provides a conceptual model for benchmarking the energy consumption.

The developed mathematical models target the energy demand of the retrofitted process.

The **benchmark** models **use a few process parameters** with no statistical data.

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