



Reduction of CO₂ emissions and associated abatement costs in the European lime industry

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The paper describes the impact of different lime kiln technologies on fuel CO₂ emissions. It shows that:

- the ability to physically reduce combustion CO₂ emissions through process improvements is extremely limited,
- other potential routes such as fuel switch or product changes have very limited potential.
- the maximum potential of reduction is around 10% pointing out that CO₂ separation and sequestration is the only technical option if higher levels of reduction are required

As a result of these constraints the paper gives examples of marginal cost of abatement, which demonstrate that beyond the first one or two percent of abatement, the marginal costs of further CO₂ abatements quickly reach levels that would more than double the product price and cost far more than transportation cost from part of the world, which have not adopted CO₂ emission regulations.

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