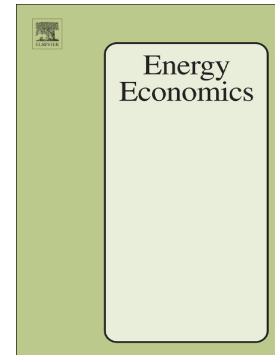


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Reducing fossil-fuel emissions: Dynamic paths for alternative energy-producing technologies

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Reducing Fossil-Fuel Emissions: Dynamic Paths for Alternative Energy-Producing Technologies¹

Abstract:

This paper builds a dynamic model that describes the optimal trajectory for zeroemissions alternative energy-producing technologies produced and installed as replacements for energy-producing technologies whose byproduct is fossil-fuel emissions. In the model, society or its policy makers choose an emission reduction goal, the time when that goal is to be achieved, and the pattern of alternative energy-producing technologies to be employed to reach the goal. The feasibility of these choices and the impact of them on the optimal trajectory are explored both in general and in a special case.

Key words:

emissions reduction, alternative energy-producing technologies

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