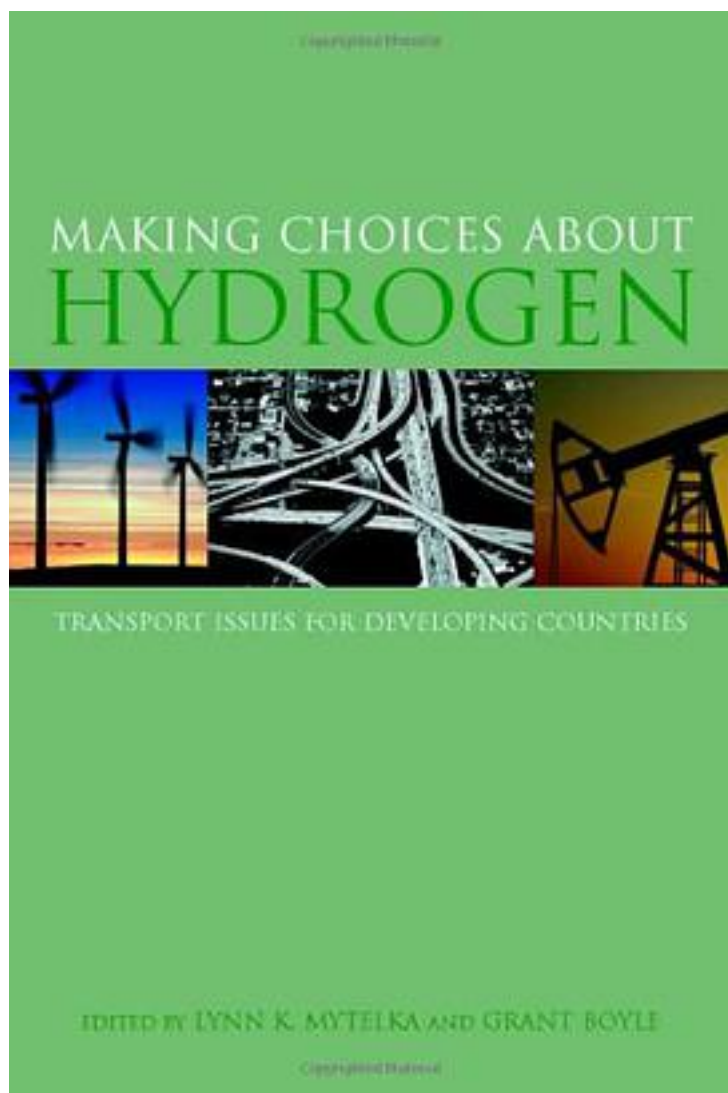


# Making Choices about Hydrogen



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This timely research discusses how developing countries can factor in competing arguments about the impending arrival of practical hydrogen fuel technology as they explore options for future policies. Since the mid-1990s, the emergence of a hydrogen economy and the speed of its arrival have been vigorously debated. The debate has mainly been among policymakers and industrial or energy firms in the developed nations. Their policies, along with the technological competencies and competitive practices of related industries, have played a central role in shaping both the debate and the direction of technological change. For developing countries the current debate highlights the uncertainties involved in making choices about hydrogen and fuel cells in transportation planning. Whether a hydrogen-based transportation system becomes viable sooner (by 2020) or later (2050 or beyond) is a key issue in their attempts to plan national energy, environment, and transportation policies. There are still many significant problems to solve before hydrogen becomes a practical fuel source. Dominant designs for the production, storage, and distribution of hydrogen haven't been established, and the performance of today's hydrogen proton-exchange membrane fuel cells isn't competitive with that of the combustion engine. However, costs are coming down, and the efficiency and durability of hydrogen fuel cells are improving.

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目录:

[Making Choices about Hydrogen 下载链接1](#)

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