

# Energy Productivity Across OECD and Non-OECD Countries in 10 Manufacturing Sectors Patterns of Growth and Convergence

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The paper examines energy productivity developments during 1971-1995 in 10 manufacturing sectors for 56 countries including 29 non-OECD countries. We perform a detailed convergence analysis to find patterns of international and sectoral energy productivity developments. Using panel data, we find that in all sectors, except chemical and non-ferrous metals sector, the differences in absolute energy-productivity levels is declining. This appears particularly so in less energy intensive industries. Testing for absolute and conditional  $\beta$ -convergence confirms that lagging countries tend to catch up with technological leaders in all sectors including chemical and non-ferrous metals. However, at the same time country specific differences in energy productivity improvement rates seem to persist among countries. Country and time specific factors such as energy price and investment ratio also influence the country specific rates, but only to a limited extent.

Keywords: energy-efficiency, energy-intensity, convergence, sector analysis

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