

1. Record Nr.	UNINA9910347057403321
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Titolo	Assessment of least-cost pathways for decarbonising Europe's power supply : a model-based long-term scenario analysis accounting for the characteristics of renewable energies
Pubbl/distr/stampa	KIT Scientific Publishing, 2013
ISBN	1000037155
Descrizione fisica	1 online resource (XVI, 223 p. p.)
Soggetti	Business strategy
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	This work analyses technological least-cost pathways for deep emission reductions in the European power sector. It seeks a better understanding of the role renewable energies play in the transformation process up to 2050. Therefore, a model is developed which optimises capacity expansion and hourly dispatch of both conventional and renewable power generation, transmission grids and storage facilities in all hours of the analysed years. The model is applied to four long-term scenarios.