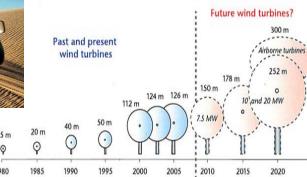


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GERMAN ADVISORY COUNCIL ON GLOBAL CHANGE





Low carbon transformations Conceptual ideas

Dirk Messner

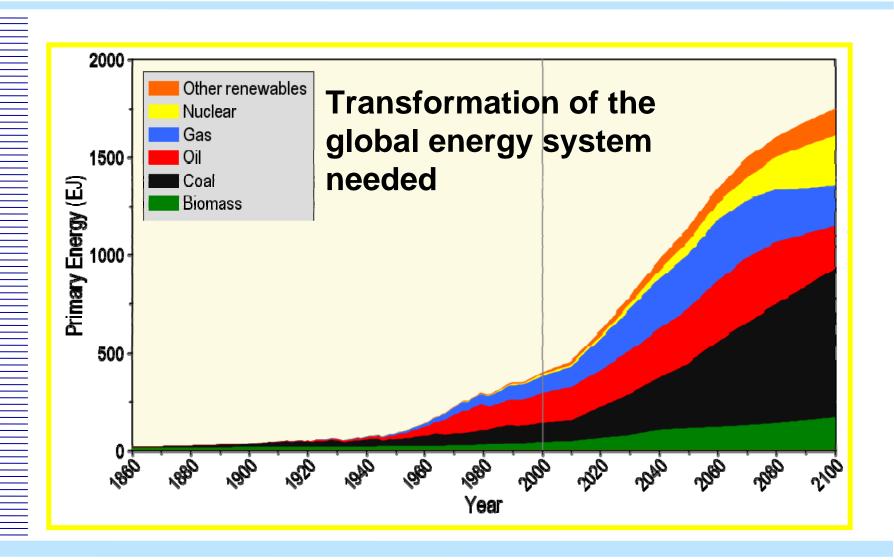
CCICED AGM 2010 Beijing



Source: Adapted from EWEA (2009).

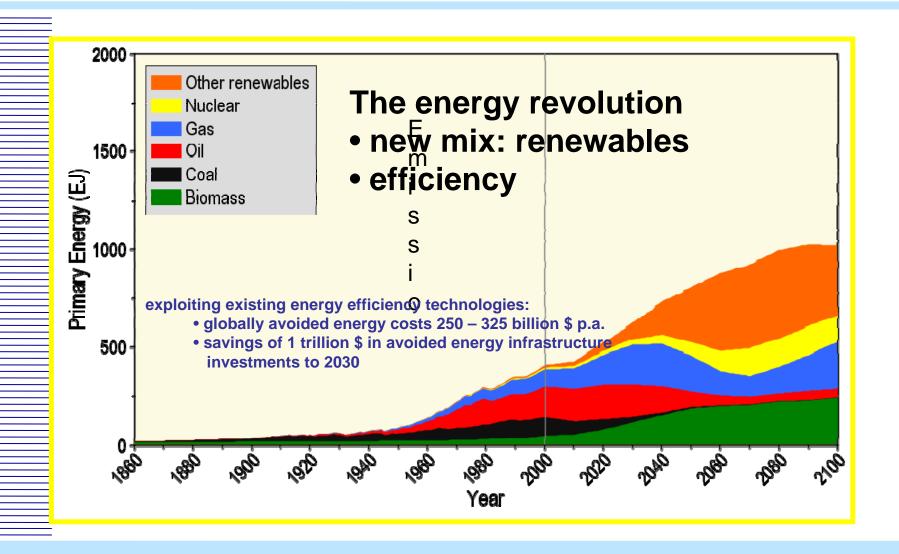












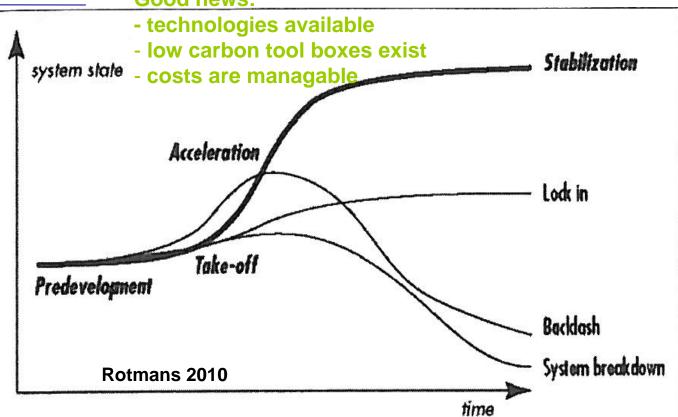


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Transformation path from a high to a low carbon economy

Strategic decisions for radical change





Major challenges:

- path dependency/ politics (carbon subsidies)
- time pressure/ speed
- urbanization revolution
- cheap coal
- frozen climate negotiations

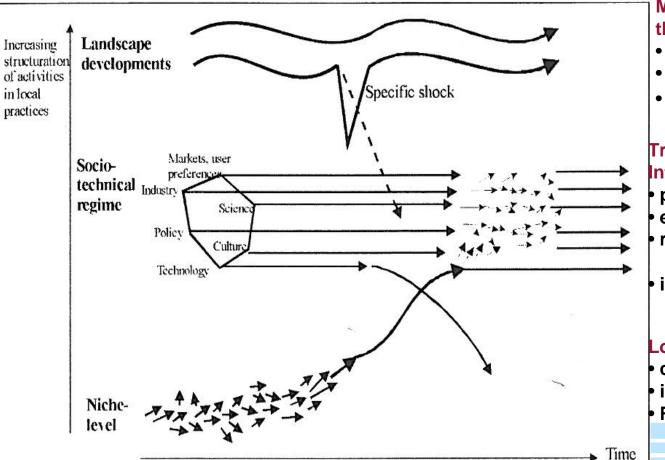


in local

practices

A multilevel perspective on transformation

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Major trends are facilitating the transformation:

- communication technologies
- global learning processes
- peak oil

Transform the high carbon regime Into a low carbon one:

- price for carbon
- efficiency standards
- road maps for sectors (mobility, cities, industry, forests)
- innovation, R&D, human capital

Low carbon pilots and pioneers:

- cities
 - investors, civil society, architects
 - R&D, business schools, CCICED