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Nota di contenuto	Energy & Climate: How to Achieve a Successful Energy Transition; Contents; SCI Preface; Preface; About the Author; Introduction; 1 Energy in a Globalised World; The fundamental role of energy in the economy; Current predominance of fossil energies; Uses of energy; Restricted number of suppliers; Energy and globalisation of the economy; The increasing role of the emerging countries; Future outlook; 2 Growing Risks Ahead; The risks associated with energy consumption; The growing demand; Unequal access to energy; Risks for the long-term energy supply; Greater vulnerability of consumer countries Dependency of transport on oil Effects of energy consumption on the environment at local and regional levels; Risks for the environment at world level; Growing threats; Interruption in the supply of hydrocarbons; An environmental disaster; 3 The Threat of Climate Change; A major risk for the planet; The greenhouse effect; The impact of greenhouse gas emissions on climate change; Symptoms of climate change; Positive retroaction and tipping points; Kyoto protocol and post-Kyoto; The factor 4 problem; The current trend; Urgency of the

actions to be undertaken; 4 The Essential Energy Transition
The need for change; Threats to be removed; Acting from a perspective of sustainable development; The need for global regulation and governance; Energy alternatives; A long transition; Making the transition; The need to innovate; Means of action; Energy supply and demand axis; Carbon balance axis; A global transition; 5 Reducing Energy Consumption, while Protecting the Environment; From megawatts to gigawatts; The evolution of the energy intensity; Renewing the organisation of housing and transport; Towards the positive energy building; Reduction of energy consumption in the transport sector
Hybrid propulsion; Energy storage; New agricultural production modes; More efficient industrial processes; Waste treatment and materials recycling; Research actions required; 6 Reducing the Energy Carbon Content; The carbon content of the primary energy supply; Carbon intensity; Energy carbon content reduction pathways; Revival of nuclear energy; Renewable energy prospects; Wind energy: an already mature energy; The promise of solar energy; Advantages and limitations of geothermal energy; Biomass energy and biofuels: potentialities and risks; The role of hydrogen; Hybridisation of sources
Research actions required; 7 Securing the Supplies of Fossil Fuels; The role of fossil fuels; The end of abundant and cheap oil; Oil reserves: the present situation; Towards a more technological oil; Extra-heavy oils and shales; Natural gas; The comeback of coal; Synthetic fuels; Research actions required; 8 CO₂ Capture and Storage; Stakes ahead; Carbon sinks; CO₂ capture and transport; Geological storage; Storage in depleted oil and gas fields; Storage in deep saline aquifers; Storage in unexploited coal seams; Industrial applications of CO₂ capture and storage
Geological storage operations worldwide

Sommario/riassunto

Despite global concerns over dwindling resources, climate change and carbon dioxide emissions, fossil fuels still account for more than 80% of the world's energy demands. As resources diminish and demand increases from rapidly developing nations such as China and India, the threat to both our environment and the security of our energy supply continues to grow. There is an immediate need to move towards a clean and more sustainable energy model, and this transition will require unprecedented innovation. Energy & Climate: How to achieve a successful energy transition covers all the tech

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Soggetti	Social work administration - Great Britain Community health services - Great Britain - Management Public housing - Great Britain - Management Community health services - Management Public housing - Management Social work administration Community Health Planning Health Policy Health Services Research Social Welfare Social Work - organization & administration Periodicals. Periodical Great Britain United Kingdom
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