

Energy systems in the era of energy vectors: a key to define, analyze and design energy systems beyond fossil fuels

Orecchini, Fabio, author

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Abstrak

This book describes and assesses energy technologies, markets and future strategies, focusing on their capacity to produce, exchange, and use energy vectors. Special attention is given to the renewable energy resources available in different areas of the world and made exploitable by the integration of energy vectors in the global energy system. Clear definitions of energy vectors and energy systems are used as the basis for a complete explanation and assessment of up-to-date, available technologies for energy resources, transport and storage systems, conversion and use. The energy vectors scheme allows the potential realization of a worldwide sustainable energy system to fulfill global development expectations by minimizing both the impact on the environment, and the international political frictions for access to limited and concentrated resources.