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Collana	DETAIL Construction Manuals
Altri autori (Persone)	HeggerManfred SoffkerGerd H ThriftPhilip SeidelPamela
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Note generali	Translated into English by Gerd H. Soffker, Philip Thrift and Pamela Seidel.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Part A. Positions : Global change / Chris Luebke -- Energy change / Hermann Scheer -- Architecture and sustainability: a difficult relationship / Robert Kaltenbrunner -- Doing things right: on efficiency and sustainability / Manfred Hegger -- Solar architecture / Thomas Herzog -- Planning and building in life cycles / Karl-Heinz Petzinka, Bernhard Lenz -- Part B. Planning : Fundamentals : Global boundary conditions ; Energy ; Climate and comfort -- Urban space and infrastructure : Land use ; Planning to suit the location ; Infrastructure and technical services -- Building envelope : Maintaining and gaining heat ; Avoiding overheating ; Decentralised ventilation ; Using the daylight ; Generating electricity -- Building services : Sustainable building services ; Heating ; Cooling ; Mechanical ventilation ; Optimising the artificial lighting -- Materials : Heat flow ; Embodied

energy ; Materials in the life cycle -- Strategies : Energy concepts ; Politics, legislation, statutory instruments ; Planning process ; Sustainable architecture ; Diagnosis system for sustainable building quality (DSQ) -- Part C. Case studies -- Part D. Appendix : Parameters ; Climate data ; LCA data ; Statutory instruments, directives, standards.

Sommario/riassunto

While the efficiency and sustainability offensive is in full swing in most sectors of the economy, in the construction sector it is still in its very beginnings - economically as well as ecologically. However, politicians and policymakers at the global, European, and national levels have begun to address this deficit and are seeking to correct it with legal requirements and laws like EnEV, building certifications, and competitions. Following the proven model of earlier manuals in the series, the Energy Manual presents a comprehensive look at the constructional parameters of energy efficiency and sustainability. It offers an advance look at the legal regulations being planned by the EU, and - as a tool ready for immediate use by architects, engineers, and designers in their daily work - it points the way toward the efficient and sustainable construction and operation of buildings. With its focus on the entire lifecycle of a building, it provides an integrated perspective - a necessary prerequisite for sustainable economic management.

Während die Effizienz- und Nachhaltigkeitsoffensive in den meisten Wirtschaftsbereichen in vollem Gang ist, steht das Bauen damit noch ganz am Anfang - ökonomisch wie ökologisch. Die Politik auf globaler, europäischer und nationaler Ebene nimmt sich dieses Defizits inzwischen zunehmend an und versucht es durch rechtliche Anforderungen und Gesetze wie EnEV, Gebäudezertifizierungen und Wettbewerbe wettzumachen. Der Energie Atlas gibt in der bewährten Form der Atlanten eine umfassende Darstellung der konstruktiven Parameter von Energieeffizienz und Nachhaltigkeit wieder. Er nimmt die von der EU geplanten gesetzlichen Regulierungen vorweg und weist als unmittelbar verwendbare Arbeitshilfe für die tägliche Arbeit von Architekten, Ingenieuren und Designern den Weg zu effizientem und nachhaltigem Bauen und Betreiben von Gebäuden. Mit seiner Orientierung am gesamten Lebenszyklus eines Gebäudes leistet er eine ganzheitliche Betrachtung - eine unverzichtbare Voraussetzung für nachhaltiges Wirtschaften.
