

1. Record Nr.	UNISA990001703810203316
Autore	RESZAT, Philipp
Titolo	Gemeinsame Naturgüter im Völkerrecht : eine Studie zur Knappheit natürlicher Ressourcen und den völkerrechtlichen Regeln zur Lösung von Nutzungskonflikten / Philipp Reszat
Pubbl/distr/stampa	München : C.H. Beck, 2004
ISBN	3-406-52365-X
Descrizione fisica	XXIV, 575 p. ; 24 cm
Collana	Münchener Universitätsschriften , Reihe der juristischen Fakultät ; 192
Disciplina	333.713
Soggetti	Risorse naturali - Utilizzazione
Collocazione	XXX.A. Coll. 7/ 59 (COLL AKZ 192)
Lingua di pubblicazione	Tedesco
Formato	Materiale a stampa
Livello bibliografico	Monografia

2. Record Nr.	UNINA9910412151503321
Autore	Zhivov Alexander
Titolo	Deep Energy Retrofit : A Guide to Achieving Significant Energy Use Reduction with Major Renovation Projects / / by Alexander Zhivov, Rüdiger Lohse
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2020
ISBN	3-030-30679-8
Edizione	[1st ed. 2020.]
Descrizione fisica	1 online resource (XXXII, 566 p. 726 illus., 534 illus. in color.)
Disciplina	696
Soggetti	Materials science Force and energy Sustainable architecture Sustainable development Energy consumption Renewable energy resources Energy Materials Sustainable Architecture/Green Buildings Sustainable Development Energy Efficiency Renewable and Green Energy
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	1. Introduction -- What is Deep Energy Retrofit: -- 3. Deep vs. Shallow Energy Retrofit -- 4. Major Renovation and Deep Energy Retrofit -- 5. Core Bundles of Technologies to Achieve Deep Energy Retrofit with Major Building Renovation Projects -- 6. Building Envelope Technologies. 7. Windows -- 8. Thermal Bridges -- Improved Building Airtightness -- 10 Vapor Control -- 11. Lighting Systems -- 12. HVAC Equipment and Systems -- 13. Quality Assurance.-14. Economic Analysis -- Conclusions.
Sommario/riassunto	This book provides detailed information on how to set up Deep Energy Retrofits (DERs) in public buildings, and shares in-depth insights into

the current status of the major technologies, strategies and best practice examples of how to cost-effectively combine them. Case studies from the U.S.A. and Europe show that that Deep Energy Retrofit can be achieved with a limited core technologies bundle readily available on the market. Characteristics of some of these core technology measures depend on the technologies available on an individual nation's market, on the minimum requirements of national standards, and on economics (as determined by a life cycle cost analysis). Also, requirements to building envelope-related technologies (e.g., insulation levels, windows, vapor and water barriers, and requirements for building airtightness) depend on specific climate conditions. This Guide provides best practice examples of how to apply these technologies in different construction situations. High levels of energy use reduction using core technology bundles along with improvements in indoor climate and thermal comfort can be only achieved when a Deep Energy Retrofit adopts a quality assurance process. In addition to design, construction, commissioning, and post-occupancy phases of the quality assurance process, the Guide emphasizes the importance of clearly and concisely formulating and documenting the Owner's goals, expectations, and requirements for the renovated building during development of the statement of work. Another important component of the quality assurance process is a procurement phase, during which bidders' qualifications, their understanding of the scope of work and its requirements, and their previous experience are analyzed. The building sector holds the potential for tremendous improvements in terms of energy efficiency and reducing carbon emissions, and energy retrofits to the existing building stock represent a significant opportunity in the transition to a low-carbon future. Moreover, investing in highly efficient building materials and systems can replace long-term energy imports, contribute to cost cutting, and create a wealth of new jobs. Yet, while the technologies needed in order to improve energy efficiency are readily available, significant progress has not yet been made, and "best practices" for implementing building technologies and renewable energy sources are still relegated to small "niche" applications. Offering essential information on Deep Energy Retrofits, the book offers a valuable asset for architects, public authorities, project developers, and engineers alike.

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