

1. Record Nr.	UNINA9910845096503321
Titolo	Assessing Progress in Decarbonizing Spain's Building Stock : Indicators and Data Availability // edited by Belinda López-Mesa, Xabat Oregi
Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2024
ISBN	3-031-51829-2
Edizione	[1st ed. 2024.]
Descrizione fisica	1 online resource (XII, 346 p. 89 illus., 78 illus. in color.)
Collana	Digital Innovations in Architecture, Engineering and Construction, , 2731-7277
Disciplina	690.24
Soggetti	Buildings - Repair and reconstruction Buildings - Maintenance Renewable energy sources Sustainability Building Repair and Maintenance Renewable Energy
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Assessing the effectiveness of building renovation policies and decarbonization progress: a review of European legislation -- Analysis of institutional frameworks of indicators to measure the effectiveness of building renovation policy and decarbonization progress in Europe -- Indicators and data in Spain for an overview of the general characteristics of the national building stock -- Indicators and data in Spain for an overview of the energy characteristics of the national building stock -- Indicators and data in Spain for an overview of deep renovation of buildings -- Indicators and data in Spain regarding an overview of worst performing segments of the national building stock, rented properties and energy poverty -- Indicators and data in Spain regarding an overview of the capacities in the construction, energy efficiency and renewable energy sector -- Indicators and data in Spain for an overview of actual energy savings and wider benefits of renovation of buildings -- Indicators and data in Spain regarding evidence-based estimate of expected energy savings and of reduction of costs for health systems from buildings renovation -- Indicators and

data in Spain regarding policies and measures for the mobilization of investments into the renovation of buildings -- On the availability and quality of data in Spain for the development of progress indicators to measure building renovation policies effectiveness and the decarbonization of the building stock -- New approaches to generate data to measure the progress of decarbonization of the building stock in Europe and Spain.

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## Sommario/riassunto

This open access book delves into the topic of monitoring the effectiveness of building renovation policies within the European Union (EU) using indicators. Given the substantial environmental impact of existing buildings on energy consumption and greenhouse gas emissions, decarbonizing them is imperative for achieving climate neutrality in Europe. The use of indicators for monitoring decarbonization progress and evaluating policies emerges as a valuable tool, ensuring the efficiency, effectiveness, and alignment of building renovation policies with broader sustainability and climate objectives. Additionally, this approach facilitates evidence-based decision-making, promotes accountability by Member States (MSs), supports the realization of long-term goals, and actively involves the public in these vital initiatives. The European Commission is actively engaged in this realm, releasing a framework of optional indicators in 2019 and subsequently refining it during the review of the Energy Performance of Buildings Directive. The evolving framework seeks to encompass both mandatory and optional indicators, posing greater challenges for EU MSs in monitoring the impact of their national building renovation policies and the progress of decarbonizing their building stocks. This book offers insights into these developing indicator frameworks, assesses the availability and quality of data in the case of Spain, and suggests areas of improvement and innovative approaches using emerging technologies to enhance data. The target audience includes diverse stakeholders such as central government administrations, regional and municipal authorities, data-collecting institutions, urban planners, researchers, and citizens interested in comprehending the impact of building renovation. By addressing this broad audience, the book aims to foster a more inclusive and well-informed discussion on building renovation and the decarbonization of the European building stock.

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