Record Nr. UNINA9910825548303321 Autore Baker Nick (Nick Vashon) Titolo The handbook of sustainable refurbishment: non-domestic buildings / / Nick V. Baker London; ; Sterling, VA, : Earthscan, 2009 Pubbl/distr/stampa **ISBN** 1-136-57351-8 1-136-57352-6 1-282-40238-2 9786612402388 1-84977-022-0 Edizione [1st ed.] Descrizione fisica 1 online resource (185 p.) Disciplina 690/.24 Soggetti Buildings - Repair and reconstruction Public buildings - Repair and reconstruction Commercial buildings - Remodeling Sustainable buildings - Design and construction Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Description based upon print version of record. Nota di bibliografia Includes bibliographical references and index. Nota di contenuto Cover: The Handbook of Sustainable Refurbishment: Non-Domestic Buildings; Copyright; Contents; Preface; List of Acronyms and Abbreviations; Part One Principles; 1 Strategy for Low Emission Refurbishment; 1.1 The case for low emission refurbishment: Energy use in buildings; 1.2 Refurbishment versus rebuild: Economics and environmental impact; 1.3 The building, plant and occupants as a system; 1.4 Implications for change of use; Impact on energy consumption; 1.5 Environmental comfort standards; 1.6 Passive environmental strategies; Natural ventilation; Daylighting 1.7 Prioritizing refurbishment optionsQuantifying energy benefits; 1.8 Integration with newbuild; 1.9 Eco-communities and urban renewal; 1.10 Environmental regulation: Energy Performance of Buildings Directive; Using other legislation in the UK; Voluntary schemes and drivers; Part Two Practice; 2 Floors; 2.1 Solid ground floors; Insulation

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## Sommario/riassunto

The refurbishment of existing buildings is a crucial yet often neglected subject within sustainable architecture; attention is usually focused on new buildings. Many old buildings waste large amounts of energy and provide poor internal conditions for occupants through poor lighting, poor ventilation, solar penetration and glare, and poor control of heating and cooling. Demolition is an option but the refurbishment alternative is increasingly seen as more sustainable in terms of architectural value, materials use, neighbourhood disruption and waste disposal. In addition, the potential impact of