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Nota di contenuto	Cover; Handbook of sustainable refurbishment : housing; Copyright; Contents; List of Figures and Tables; Acknowledgement; Preface; List of acronyms and abbreviations; 1. Outline of Sustainable Housing Refurbishment; Technical Areas; Improving the insulation of all external elements; Ventilation that is adequate and efficient; Providing efficient space heating; Providing domestic hot water (DHW) by efficient means and controlling its use; Avoiding overheating that could require active cooling; Utilizing daylighting, efficient lighting and control systems Installing efficient appliances and controls Installing equipment to minimize water use; Reusing existing components and using new sustainable materials; The risks of sustainable refurbishment; Non-Technical Aspects; Designing for the occupiers; Supporting the refurbishment process; Comprehensive and partial refurbishment; Occupation and feedback; 2. Occupier Information and Behaviour Change; Occupant Behaviour; Exploring Occupant Needs and Behaviour; Designing to Suit Occupant Lifestyle; Avoiding Complicated Control Systems; Providing Tailored Information Installing and Setting Up a Smart Metering System Providing

Information on Energy Use to OccupantsSetting Up a Communal Information Exchange and Problem-Solving System; Behaviour Change; 3. Strategies to Get Action for Sustainable Housing; How Sustainable Refurbishment Happens; Comprehensive refurbishment; Opportunistic approach; New purchase or new tenancy; The green owner; Area improvements; Drivers and Enablers; Legislation; Financial support; A whole-house sustainability plan; Designers and tradespeople; Show houses; 4. Good and Best Practice in Single-Family Houses Case Study 4.1. France: Caluire, RhoneCase Study 4.2. France: Bourg-en-Bresse; Case Study 4.3.UK: Hereford; Case Study 4.4.UK: Culford Road, London; Case Study 4.5.UK: Carshalton Grove, London; Case Study 4.6.UK: Chester Road, London; Case Study 4.7.UK: Bristol; Case Study 4.8.UK: Manchester; Case Study 4.9. Portugal: Western Algarve; Case Study 4.10.US: Oakland, California; Case Study 4.11.Germany: Cologne; Case Study 4.12.Germany: Oldenburg; Case Study 4.13. Germany: Eichstetten; Case Study 4.14.Germany: Constance; Case Study 4.15.UK: London (Kings Cross) 5. Good and Best Practice in Apartment Blocks and Social HousingCase Study 5.1.Germany: Leipzig; Case Study 5.2.Germany: Ahrensburg; Case Study 5.3.Germany: Mannheim; Case Study 5.4. Germany: Hopferau; Case Study 5.5.UK: St Albans; Case Study 5.6.UK: Smethwick; Case Study 5.7.Austria: Sankt Florian; Case Study 5.8. Bulgaria: Sofia, Zaharna Fabrika; Case Study 5.9. Slovenia: Ljubljana; Case Study 5.10. Sweden:Alingsas; Case Study 5.11.The Netherlands: Raamsdonk; 6. Practical Details and Choosing the Best; Improving the Insulation of all External Elements; Insulation types and standards Insulation: Environmental considerations

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#### Sommario/riassunto

Based on careful analysis and experience in all housing sectors and house types, this handbook explains and demonstrates how to incorporate the most effective energy saving measures in the existing housing stock.1. Outline of Sustainable Housing Refurbishment2. Occupier Information and Behaviour Change3. Strategies to Get Action for Sustainable Housing 4. Good and Best Practice in Single Family Houses 5. Good and Best Practice in Apartment Blocks and Social Housing6. Practical Details and Choosing the Best7. Design Tools, Testing, Monitoring and Smart Metering8. Adaptation to Climate Change9. Towards Zero Carbon in the Existing Housing StockBackgroundFuture DirectionsGood And Best Practice ExamplesIt begins by setting out the basic aims of sustainable refurbishment before presenting a large number of illustrated case studies from a range of single- and multi-family dwellings. A practical section then details the specific measures that can be taken to reduce the energy demand of buildings, with extensive references to further resources. Practical SupportPrefaceReferencesWritten for architects and building engineers, the book combines technical and managerial solutions demonstrating that a new refurbishment culture needs to be created that radically improves the energy performance of all existing houses whenever any opportunity presents itself and whenever any work is carried out.

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