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Nota di contenuto	Front matter -- CONTENTS -- PREFACE -- A BACKGROUND INFORMATION / Voss, Karsten / Hall, Monika / Geier, Sonja / Binz, Armin -- B PROJECTS AND LESSONS LEARNED -- OVERVIEW OF PROJECTS AND THEIR CHARACTERISTICS - PART 1 / Musall, Eike / Voss, Karsten -- SMALL RESIDENTIAL BUILDINGS -- RESIDENTIAL HOUSE / Hall, Monika / Musall, Eike -- ÉCOTERRA HOME / Athienitis, Andreas / Candanedo, José / Musall, Eike -- LIGHTHOUSE / Noguchi, Masa / Musall, Eike -- HOME FOR LIFE / Musall, Eike -- LARGE RESIDENTIAL BUILDINGS -- KRAFTWERK B / Hall, Monika / Musall, Eike -- RENOVATION BLAUE HEIMAT / Kagerer, Florian / Herkel, Sebastian -- KLEEHÄUSER / Lange, Jörg / Musall, Eike / Gies, Michael -- MULTI-FAMILY DWELLING / Kämpfen, Beat -- HOUSING DEVELOPMENTS -- SOLAR COMMUNITY / Musall, Eike / Voss, Karsten -- ENERGY PLUS COMMUNITY / Geier, Sonja -- BEDZED COMMUNITY / Noguchi, Masa / Ringaila, Audrius / Musall, Eike -- CITIES -- MASDAR URBAN DEVELOPMENT PROJECT / Siems, Tanja / Simon, Katharina / Dinkel, Arnulf / Musall, Eike -- OVERVIEW OF PROJECTS AND THEIR

CHARACTERISTICS - PART 2 / Musall, Eike / Voss, Karsten -- OFFICE BUILDINGS -- CORPORATE HEADQUARTERS / Hall, Monika / Musall, Eike -- WWF HEADQUARTERS / Musall, Eike -- OFFICE BUILDING WITH APARTMENT / Geier, Sonja -- PIXEL BUILDING / Esmore, Shane / Waldren, David / Brady, Dylan / Lehnert, Beatrix -- PRODUCTION AND ADMINISTRATION -- COMPANY HEADQUARTERS / Plesser, Stefan / Langehein, Henrik / Fisch, Norbert -- ZERO EMISSIONS FACTORY / Riecks, Dietmar / Musall, Eike / Ufheil, Martin -- EDUCATIONAL BUILDINGS -- SCHOOL RENOVATION / Erber, Sabine / Zweier, Gerhard / Hammerer, Ferde / Musall, Eike -- UNIVERSITY BUILDING / Lenoir, Aurélie / Garde, François -- DAY CARE CENTRE / Tilicke, Bert / Rössing, Lars / Jung, Patrick -- ELEMENTARY SCHOOL / Lütkemeyer, Ingo / Krause, Jens / Brandes, Marko -- EXPERIMENTAL BUILDINGS -- SOLAR DECATHLON EUROPE / Bernard, Soara -- APPENDIX

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## Sommario/riassunto

"Net zero energy buildings, equilibrium buildings or carbon neutral cities - depending on location and the reasons for making the calculation, the numbers are run differently. The variety of terms in use indicates that a scientific method is still lacking - which is a problem not just in regard to international communication, but also with respect to planning processes as a response to energy challenges. The clarification and meaning of the most important terms in use is extremely important for their implementation. Since October 2008, a panel of experts from an international energy agency has concerned itself with these topics as part of a project entitled "Towards Net Zero Energy Solar Buildings". The objective is to analyse exemplary buildings that are near a zero-energy balance in order to develop methods and tools for the planning, design and operation of such buildings. The results are documented in this publication: In addition to the presentation of selected projects, it is not just architectural showcase projects that are shown - the focus is on relaying knowledge and experience gained by planners and builders. Even if many questions remain unanswered: Project examples that have already been implemented prove on a practical basis that the objective of a zero energy balance is already possible today."

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