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Titolo	Carbon Footprint and the Industrial Life Cycle : From Urban Planning to Recycling / / edited by Roberto Álvarez Fernández, Sergio Zubelzu, Rodrigo Martínez
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ISBN	3-319-54984-7
Edizione	[1st ed. 2017.]
Descrizione fisica	1 online resource (XII, 550 p. 202 illus.)
Collana	Green Energy and Technology, , 1865-3529
Disciplina	620
Soggetti	Sustainable development Energy policy Energy systems Regional planning City planning Waste management Pollution prevention Sustainable Development Energy Policy, Economics and Management Energy Systems Landscape/Regional and Urban Planning Waste Management/Waste Technology Industrial Pollution Prevention
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references at the end of each chapters.
Nota di contenuto	Introduction: Sustainability and urban planning -- 2 Methodology for calculating industrial carbon footprints -- 3 Industrial activity categories and urban master plan -- 4 Characterization of industrial GHG emission sources in an urban planning context -- 5 Carbon footprint calculation and industrial urban planning procedures -- 5.1 Potable water infrastructure -- 5.2 Waste water management infrastructure -- 5.3 Electricity supply infrastructure -- 5.4 Gas supply infrastructure -- 5.5 Waste management infrastructure -- 5.6

Transport infrastructure. - 6 Metrics for the Sustainability of Infrastructure Projects -- 7 Modelling a Low-Carbon City: Eco-City and Eco-Planning -- Tools for Urban Sustainability Designers -- 9 Urban planning policy implications -- 10 Case Study -- 11 Case study -- 12 Conclusions and further recommendations.

Sommario/riassunto

This book analyzes the relationship between large-scale industrial activity and the carbon footprint, and provides a theoretical framework and tools to calculate the carbon footprint of industrial activities at every stage of their life cycles, including urban-planning master plans, recycling activities, project and building stages as well as managing and manufacturing. Discussing the main preventative and corrective measures that can be utilized, it includes case studies, reports on technological developments and examples of successful policies to provide inspiration to readers. This book collects the contributions of authors from four continents, in order to analyze from as many as possible points of view and using many different approaches, the problem of sustainability in today's globalized world.
