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Nota di contenuto	Introduction -- Part 1. Background -- Chapter 1. Critique of Traditional Approach to GHG Emission Accounting: Literature Review -- Chapter 2. Climate responsive GHG Accounting Principles and Values: Working for Integration -- Chapter 3. Emergence of Climate Fusion Science: Convergence of Human Needs and Climate change -- Part 2. Theory: LCA and Consumption/Needs-based GHG Emission Accounting System -- Chapter 4. Basics to GHG Accounting system -- Chapter 5. Framework, Methodology and Tools -- Chapter 6. Evolving Digital Data Technologies towards New GHG Accounting: Digital Inclusion and Transformation -- Part 3. Practice: Case Studies -- Chapter 7. Public Buildings -- Chapter 8. Commercial Buildings -- Chapter 9. Digitalized District Heating in Building Sector -- Part 4. Policy Applications to Address LCA and Consumpti-on/Needs-based GHG Accounting --

Chapter 10. Informing Policy Making: Political Responses -- Chapter 11. Comparison of Carbon Neutral city Plans -- Chapter 12. LCA and Consumption/Needs-based GHG Accounting and Reporting Protocol -- Part 5. Conclusions and Future Prospects -- Chapter 13. Reshaping of GHG Accounting and Climate Action: A New GHG Emission Accounting Movement -- Chapter 14. Research Needs: Research Requirements to Improve the Policy Application of LCA and Consumption/Needs-based GHG Accounting Platform -- References -- Appendices.

Sommario/riassunto

This book reveals causes of the GHG emission accounting practice failure over the last several decades, describes evolution of new tenets of the accounting and remaining tasks, and suggests a new comprehensive integrated accounting in the form of protocol. The latest Intergovernmental Panel on Climate Change (IPCC) assessment report calls for net zero CO₂ emissions by 2050 to limit warming to 1.5 degree C. As a result, many countries, cities, and industries are putting forward their greenhouse gas (GHG) emission reduction actions and commitments. But can the countries, cities, and industries meet these ambitious decarbonization goals without a reliable GHG inventory? This book tries to answer this question. It has been argued that there is a need to include LCA and consumption/needs-based GHG emissions as a complimentary indicator to the current approach of production-based GHG accounting emissions. As a shifting of the focus of accounting system after the Paris Agreement, consumption/needs-based approach is newly focused on a more broader accounting approach for NDCs and LDCs with a vision of all of society approach. Traditional national inventory approach to GHG emission accounting has been severely criticized as being too production process-oriented, sector-based approach, less transparent, a lack of public participation, no considerations for human needs and human factors.

2. Record Nr.	UNIORUON00190134
Autore	CASSILL, Ronald Verlin
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