

1. Record Nr.	UNINA9910987694103321
Autore	Nautiyal Sunil
Titolo	Determinants and Stratification of Household Carbon Footprint : Understanding the Prospect for Climate Change Mitigation and Socioeconomic Co-benefits // by Sunil Nautiyal, Mrinalini Goswami, A Premkumar
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2025
ISBN	981-9627-39-7
Edizione	[1st ed. 2025.]
Descrizione fisica	1 online resource (XVIII, 141 p. 71 illus., 68 illus. in color.)
Disciplina	333.7
Soggetti	Environmental management Ecology Energy policy Sustainability Construction industry - Management Environmental Management Environmental Sciences Energy Policy, Economics and Management Construction Management
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Chapter 1. Global Climate Dialogues: India's Position and Perspectives -- Chapter 2. Household Carbon Footprint Assessment in India: Approaches and Challenges -- Chapter 3. Sectoral Contribution to HCF -- Chapter 4. Rural-Urban Disparity and Prospects for Emission Reduction -- Chapter 5. Behaviour, Perceptions and Knowledge of Households -- Chapter 6. Influence of Affluence and other Determinants of HCF -- Chapter 7. Impact of Changing Landscape Dynamics along Rural-Urban Interface -- Chapter 8. Case Studies from Western Himalaya and Southern Plateau -- Chapter 9. Impact of COVID-19 on Consumption Pattern of Indian Households -- Chapter 10. Sectoral Policy Insights for Household Emission Reduction -- Chapter 11. Way Forward.

This book provides comprehensive insights into the socioeconomic systems, carbon accounting, and consumption-expenditure frameworks influencing household carbon footprints (HCF) in a developing economy. It offers a unique perspective on the link between socioeconomic classes, agro-ecological zones, and carbon emissions, specifically in the Indian context. Household consumption patterns play a critical role in determining greenhouse gas emissions and are increasingly recognized as vital for shaping effective climate policies. Various socio-economic, demographic, and lifestyle factors—such as household size, income, food habits, mobility choices, waste management practices, home appliances, and education—significantly impact HCF. While the IPCC mitigation framework focuses extensively on direct emissions from energy and product production, this book emphasizes indirect emissions driven by lifestyle choices and end-use consumption. The book is based on a PAN-India study across 13 diverse locations within nine agro-ecological regions, examining the socioeconomic and geo-climatic determinants of household carbon emissions. It explores the income-consumption relationship, providing strategies to leverage these insights for targeted decarbonization and sustainable development. Additionally, the book addresses the behavioral aspects of carbon footprints and offers policy recommendations to promote a "carbon handprint"—advocating for carbon-friendly behaviors and solutions that are socially acceptable. By segregating emissions from production and consumption, it aims to guide the development of comprehensive emission reduction strategies for various consumables. This volume is an essential resource for students, researchers, and policymakers interested in sustainable consumption, climate mitigation, and the socio-economic dimensions of carbon emissions in developing countries.
