Sustainable Built Environment National Research Centre AUSTRALIA

Dr Charlie Hargroves

Senior Research Fellow - Curtin University

Charlie Hargroves is a passionate and dedicated industry researcher with extensive experience working closely with researchers, industry and government to address urban sustainability challenges for mutual benefit with experience in the Middle East, United States, Europe and Asia. Charlie has a Civil Engineering Degree from the University of Adelaide and a PhD in Carbon Structural Adjustment from the Curtin University Sustainably Policy Institute, supervised by Professor Peter Newman.

Charlie has co-authored 5 international books that have sold over 85,000 copies in 6 languages along with numerous book chapters, academic papers, and industry reports. Two of the books were ranked 5th and 12th among the 'Top 40 Sustainability Books in 2010' by the Cambridge Sustainability Leaders Program. In 2005 Charlie was the founding CEO of Natural Capitalism Solutions, a US-based sustainability consulting group in Colorado, and worked closely with large corporations and institutions to achieve profitable greenhouse gas emissions reductions. Since 2016 Charlie has provided expert advice drawing on findings from SBEnrc projects to the United Nations Centre for Regional Development (UNCRD) on urban sustainability issues and solutions and is a Full Member of the Club of Rome.

Charlie has been an active part of SBEnrc since its first round of projects in 2010 and during this time he has worked closely with SBEnrc partners from State and Local Government, industry and research institutions around the country to deliver direct benefits while informing academic findings to underpin further research. Charlie has also collaborated with and presented findings with a number of international partners and is the Leader of the Infrastructure Task Group for the International Council for Research and Innovation in Building and Construction (CIB), with Professor Keith Hampson, CEO of SBEnrc, the 2019-2022 President of the CIB.

Qualifications

PhD, Carbon Structural Adjustment and Industry Transformation
Bachelor of Civil Engineering

SBEnrc Projects

1.1: Understanding the Performance of Existing Office Buildings to inform Energy Reduction Initiatives (Co-Project Leader)
1.3: The Future of Roads: Reducing Environmental Pressures, Sustainability Reporting, and Considering Future Scenarios (Co-Project Leader)
1.5: Harnessing the Potential of Biophilic Urbanism In Australia, an Economic and Policy Investigation (Co-Project Leader)
1.22: Strategies and Solutions for the Future of Roads (Project Leader)
1.24: A Roadmap for Carbon Structural Adjustment in the Built Environment Sector (Project Leader)
1.35: Transport Network Resilience: Disaster Logistics and Infrastructure Vulnerability (Co-Project Leader)
1.42: Innovative Industrialised Buildings: Accelerating the Mainstreaming of Building Manufacture in Australia
1.44: Scenario Planning Transport Futures: Improved Road and Transport Planning using Digital Scenario Planning Tools
1.45: Big Data, Technologies and Transportation (Project Leader)
1.52: Tech-Enabled Transport: Informing the Transition to Technology Enabled Transport Vehicles and Infrastructure (Project Leader)
1.55: Integrated Cities: Procuring Transport Infrastructure through Integrating Transport, Land Use and Finance
1.62: Sustainable Centres of Tomorrow: People and Place
1.63: Exploring the Potential for Artificial Intelligence and Blockchain to Enhance Transport (Project Leader)