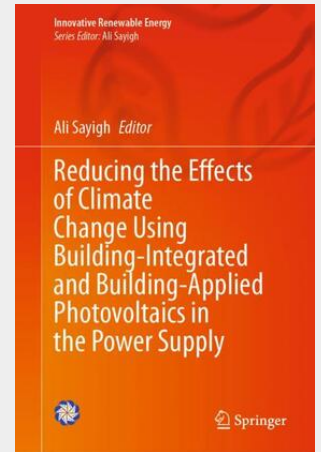


Sayigh

## Reducing the Effects of Climate Change Using Building-Integrated and Building-Applied Photovoltaics in the Power Supply

This book looks at the success and continuing potential of photovoltaic (PV) technology in combating climate change by harnessing solar energy through building-integrated (BIPV) and building-applied photovoltaics (BAPV). With PV global capacity soaring from 940 GW in 2021 to 1100 GW in 2022 and projected to reach 1456 GW by the end of 2023, the world is witnessing an unprecedented shift towards renewable energy solutions. Today, no single country exists without some form of PV installation, driven by reduced costs and abundant free sunshine. The book's chapters delve into the advancements in PV technology, exploring its integration as an essential building material by examining 14 countries and regions – Brazil, The Netherlands, Austria, Poland, Argentina, Iran, Germany, Malaysia, Oman, Bahrain, India, Australia, the United Kingdom, and Egypt – and providing a comprehensive overview of their successful adoption of PV for electricity generation. Whether you're an architect, builder, engineer, or climate advocate, this vital resource offers insights, international case studies, and a path to a greener future.

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