

Dear Colleagues,

The importance of the building industry as one of the primary sources of GHG emissions requires effective mitigation strategies to reduce the environmental footprint of new and existing buildings. Extensive research and development in this area have resulted in the advent of numerous innovative technologies, building systems, materials, construction and delivery methods. However, the large-scale application of such strategies requires further cost estimation, policymaking and industry uptake, which can be addressed with further research.

The other urgent task in the face of climate change is to determine the resilience of both new and existing buildings and propose adaptation strategies for changing weather patterns. By studying future weather scenarios, a shift in energy demands, indoor environmental comfort, power outages, thermal resilience, and building durability can be predicted. Such predictions could result in adaptive solutions such as passive and active energy efficiency measures, dynamic building systems, and renewable energy systems.