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Special Issue Reprint

Advanced Energy Systems in Energy Resilient, Zero/Positive Energy Buildings, Communities and Districts

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This Reprint focuses on the concepts, fundamentals, and defines the concept of nearly/net/zero and positive energy buildings/communities/districts and their impact on the built communities. It also provides details on energy efficiency of buildings in communities and districts, the HVAC systems, short- and long-term energy storage, renewable energy integration, and controls. As the built environment and businesses are moving towards energy efficiency, flexibility, and self-sufficiency so these concepts are also discussed in detail. In addition to this, while looking at the present energy crisis due to the economy, climate change, and policy changes. The concept of energy resilience is also discussed. The development of future-proof buildings and the built environment is of particular interest; hence, this concept is also presented. Finally, the economic, social- and policy-related aspects are included in the Reprint to provide a comprehensive solution to various interested stakeholders, parties, and, in general, to society. Users' acceptance and engagement in communities and districts.

