



## 5G, Energy Efficiency and Sustainability

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### Message from the Guest Editors

Dear Colleagues,

5th Generation (5G) mobile network has been commercially deployed in the last 3-5 years in selected regions in the world.

By employing advanced wireless communication technologies such as multiple-input-multiple-output (MIMO) and small-cell network level configurations, 5G technologies can dramatically improve the energy saving of consumer communications, industrial operation, metropolitan network, residential or commercial buildings, and even achieve city-level energy optimization. Advanced research in Internet-of-Things (IoT), smart buildings, smart city, smart grid mostly rely on 5G networks to realize such energy or power saving.

5G can also contribute to human health and well-being. With a global aging population in the next decades, healthcare systems will be under both capacity and capability tests

More and more such initiatives are forming to bridge 5G infrastructures and the sustainable future of our planet, as this Special Issue invites you to join our discussions.

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# Special Issue



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## Message from the Editor-in-Chief

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