Special Issue

Waste-to-Energy Systems in Standalone, Integrated and Hybrid Configurations

Message from the Guest Editors

The need to resort increasingly to renewable energy sources is currently forcing governments and distribution network service providers (DNSPs) to grapple with how to manage the costs of electricity supply with the prospect of distributed generation while still meeting the social objectives of access and affordability in remote areas.

Actions must be therefore undertaken toward a more intensive exploitation of bioenergy, in standalone configurations or by multi-source-integrated systems along with solar, wind, and hydro power. Resorting to off-grid solutions of hybrid energy generation and storage today constitutes a viable route not only to supply services to remote districts but also to lower the load over national networks and to increase the resilience of territories exposed to natural disasters or climate change effects.

Submissions addressing technical and economic challenges to a more rationale and sustainable use of resources, especially of residual materials, that discuss costs of management and disposal are welcome.

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