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Planning Sustainable Energy Systems in the Global South Using Energy Modeling Software

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Message from the Guest Editors

Most countries in the Global South are naturally endowed with diverse, renewable, solar, wind, hydro, and geothermal energy sources. These sources can potentially provide both rural villages and urban cities with sufficient elecritcity. However, access to electricity remains a key policy issue for most of the Global South, and it is important to increase renewable energy use and improve access to electricity for all.

This Special Issue welcomes original research articles, review articles, and case studies/reports on using sustainable energy tools such as RETScreen, HOMER, LEAP, MESSAGE, OSeMOSYS, WASP, TIMES, and PVsyst for energy planning in the Global South.

Topics of interest for publication include, but are not limited to:

- Energy decarbonization modeling;
- Energy transition modeling;
- On-grid and off-grid renewable energy modelling;
- Renewable energy financing and investment;
- Electric vehicles and hydrogen technology;
- Energy storage system;
- Smart energy systems;
- Techno-economic analysis;
- Smart transportation modeling;
- Energy efficiency and management.

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Message from the Editor-in-Chief

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