Portugal nuclear renewable hybrid energy systems

The Nuclear-Renewable Micro Hybrid Energy System (N-R MHES) offers to combine the small scale of Nuclear Power Plant (NPP) with Renewable Energy Sources (RES). The byproduct of the N-R MHES, the thermal energy, is also ...

The findings demonstrate that Jordan can achieve a 100% renewable energy system by 2050, requiring approximately 25 GW of solar power, 11 GW of concentrated solar power, 5 GW of ...

The simulation results show that the grid-connected Nuclear-Renewable Micro Hybrid Energy System (N-R MHES) is the most feasible option to meet the sizeable electrical power demand. ...

There is an increasing need to assess the potential deployment of hydrogen strategies. Implementing nuclear-renewable hybrid energy systems (N-RHESs) has demonstrated a ...

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The deployment of all low carbon energy sources is key to reducing emissions from the energy sector. As the share of intermittent renewable systems has increased in power grids to ensure ...

The advent of more flexible small modular reactors (SMRs) and the proved synergy between nuclear and renewable resources make SMRs a promising component for HES, 9 due to their almost zero carbon footprint and ...

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