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et al. "Integrating renewable energy in smart grid system: Architecture, virtualization and analysis." Sustain Energy Grids Netw 18 (2019): 100226. 4. Gungor, Vehbi C., Bin Lu and Gerhard P. Hancke. "Opportunities and challenges of wireless sensor networks in smart gridIEEE Trans Ind ." Electron 57 (2010): 3557-3564. 5.


This special issue (SI) will mainly cover the papers on the computational theories and methods that can be applied in multi-energy networks. The aim is to present a state-of-the-art collection of innovative models, algorithms, approaches, and tools for the control, operation, design, simulation, and analysis of multi-energy networks. The SI will provide an opportunity for ???


Following the success of liberalization of various sectors of the economy, electricity markets underwent a similar transition. Vertically integrated utilities were unbundled, and competition in generation and supply was introduced. In this regard, market modelling issues affect different aspects of power system operation and planning. Due to the complex nature of ???


Smart Grids and Sustainable Energy is a journal dedicated to evolving and applying smart grids and sustainable energy systems, focusing on technological, operational, and regulatory aspects. Addresses active distribution networks and demand-side management. Includes studies on energy storage systems and smart transmission systems. Executive

Governments around the world are investing heavily in smart energy systems and technologies (SEST) to ensure optimum energy use and supply, enable better planning for outage responses and recovery, facilitating the integration of heterogeneous technologies such as renewable energy systems, electrical vehicle networks, and smart homes around the grid.

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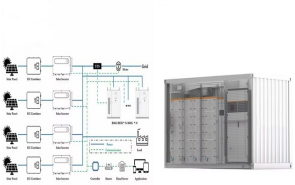

Bulk Power System Dynamics and Control XI - Grid control, operation and markets to enable a Net-Zero future. The series of Bulk Power Systems Dynamics and Control Symposia was established by Les Fink in 1988 and has been managed since 1994 by the International Institute of Research and Education in Power System Dynamics (IREP).

select article Retraction notice to "Accurate prophecy of photovoltaic-segmented thermoelectric generator's performance using a neural network that feeds on finite element-generated data" [Sustainable Energy, Grids and Networks 32 (2022) 100905]

Sustainable Energy, Grids and Networks. Volume 40, December 2024, (PrimaVera); as well as BMK, BMDW, Austria, and the State of Upper Austria in the frame of the SCCH competence center INTEGRATE Energy Grids Netw., 35 (2023), Article 101116. View PDF View article View in Scopus Google Scholar

Sustainable Energy, Grids and Networks (SEGAN) is an international peer-reviewed publication for theoretical and applied research dealing with energy, information grids and power networks, including smart grids from super to micro grid scales. SEGAN welcomes papers describing fundamental advances in mathematical, statistical or computational methods with application to ???

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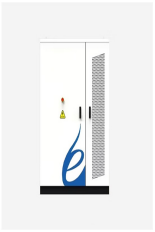
A new concept called "Vehicle-to-Micro-Grid (V2? 1/4 G) network" integrates off-grid building energy systems with flexible power storage/supply from battery EVs (BEVs) and fuel cell EVs (FCEVs) suggests that the degradation of LIBs in BEVs can be reduced by 13% compared to networks without FCEVs.

select article Corrigendum to "Quantification of energy flexibility of residential net-zero-energy buildings involved with dynamic operations of hybrid energy storages and diversified energy conversion strategies" [Sustain. Energy Grids Netw. 21 (2020) 100304]


To deliver sustainable energy to all people, renewable energy deployments and grid and mini-grid expansions are needed across all countries. Transmission network limitations to deliver renewable energy power and the inability of the existing distribution network to absorb rapidly growing distributed renewable projects are beginning to form a strong bottleneck in ???


This special issue aims to identify, address and disseminate state-of-the-art research works focusing on the advanced technology and application for integrated multi-energy conversion, control, and operational planning toward the low carbon emission-driven self-sustained EV charging infrastructure.


The year 2020 marks the start of the UN's "Decade of Action". Helping communities across the globe develop their energy footprints to provide affordable, reliable, sustainable and modern energy for all is a key part of this action plan and is one of the UN's Sustainable Development Goals (SDG 7).

and maximise the usage of energy, reducing operating expenses [9] while simultaneously providing exibility and control to energy re - sources and the grid [10]. Current EMS frameworks are broadly cat-egorised into Predictive Energy Management Systems (PEMS) and Real-time Energy Management Systems (REMS) [11], with each offer-

Special Issue on Forecast production and end-use for efficient management of energy systems; Special Issue on FLEX DIST PLAN; Special Issue on Electric Vehicle Management in Multi-Energy Systems; Special Issue on Selected articles from the 2nd International Conference on Energy Transition in the Mediterranean Area (SyNERGY MED 2022) Review Articles