

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.

As shown in Fig. 1, there are multiple energy sources in Palestine including electricity, diesel fuel, gasoline, kerosene, fuel oil, LPG, oils and lubricants, bitumen, olive cake, wood, charcoal, and solar. In 2019, the total energy supply was 81,903 TJ of which about 85% is electricity, diesel, gasoline, kerosene, and LPG (PCBS, 2019). The same year, the RE ...

framework for energy efficiency and renewable energy sources investments. This meetMED Investment Country Report is the main outcome of the activity and is aimed at giving a brief ...

Sustainable Energy, Grids and Networks. Volume 37, March 2024, 101273. ... For lithium-ion batteries to become a long-term and sustainable source of energy, serious consideration must be given to the supply chain of their raw materials, composition, and packaging. ... Now the fusion of data network and energy network is the real new charging ...

All authors have approved the manuscript and agree with its submission to "Sustainable Energy, Grids and Networks" journal. Declaration of Competing Interest The authors whose names are listed immediately below certify that this paper is student research and the authors listed in this paper are not affiliated with the government.

sources of electricity and Israeli restrictions have prevented the construction of power networks in large parts of Area C which comprises 60% of the West Bank. Thus, exploitation of renewable ...

Special Issue on Computational methods applied to multi-energy networks; Special Issue on Measurement solutions for the decarbonization of power systems; Special Issue on Forecast production and end-use for efficient management of energy systems

The sustainable energy transition is among the top priorities for countries worldwide to mitigate the impact of climate change. In the State of Palestine, the sustainability transition is a priority because it increases access to energy to empower Palestinian communities, especially marginalized localities who suffer from energy insecurity because of adverse geopolitical ...

This chapter highlights the importance and the need for the renewable energy applications in Palestine,

addressing the potential and possibility of adopting renewable ...

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An overarching proposal has been proposed to encourage Local Governance Units (LGUs), especially in villages and towns, to invest in solar energy with medium-scale photovoltaic farms in order to contribute to reducing ...

The energy sector, specifically electricity in the State of Palestine, is in a unique situation. This is essentially due to its vital role in driving sustainable development at economic and social levels, but it is also profoundly linked to political considerations, in which energy security is considered to be a critical issue for Palestinians across the State of Palestine.

Sustainability is the essential part of smart grids and the ultimate future of energy systems. Providing a state-of-the-art review on the progress of advanced learning systems which contribute to the sustainability of smart grid is essential. This paper reviews the applications of data-driven methods of machine learning in sustainable smart grid systems. The machine learning ...

VSI: COVID-19 Energy Impacts; VSI:Markets & Power Systems; Special Issue on SEST 2021; Special Issue on Markets & Power Systems; Special Issue on Computational methods applied to multi-energy networks; Special Issue on FLEX DIST PLAN; Special issue on Forecast production and end-use for efficient management of energy systems Edited by Jethro ...

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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.

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]

The main renewable energy sources considered to have potential in Palestine is solar energy. 3000 sunshine hours per year. Average solar energy is between 2.63KWH/m² -day in ...

Thereby, this study aims to review the current situation of RE and energy policies in Palestine, to analyze the present energy policies, laws, and strategies, to identify strengths, ...

The prosumers of an energy system are customers who can both consume and produce energy to the grid. Produced energy (electricity or heat) can be used to satisfy customer's own demand, or sold to the distribution grid. The most common application of being a residential prosumer is producing electricity with a photovoltaic production unit.

following table shows selected indicators of the energy sector in Palestine between 2014 and 2018, Table 2. As shown, Energy de-pendency has increased, with an increase in population, ...

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