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Downloadable (with restrictions)! Consumers have a major role to play in smart grid technologies which can be instrumental in addressing climate change and energy challenges. However, little is known about how consumers perceive, and how they might respond to the opportunities that smart grid technologies offer. This paper reports the results from a Hong Kong survey (n=505).

Abstract: The smart grid concept evolved from the vision of an "intelligent grid" with the promise of making electric power delivery systems (grids) smarter using computer-based remote control and automation, enabled by two-way communication technology and computer processing. A "smart grid" includes operational and energy measures including smart meters, ...

A smart grid is an electricity network that enables a 2-way flow of electricity and data. It is supported by technologies such as smart meters, big data and the Internet of Things (IOT). Smart grid networks involve: Power generation; ...

Energy storage is necessary to secure and stabilize the grid, especially with the growth of renewable power generation. In addition to energy balancing, energy storage also offers the advantages of emergency power, frequency regulation, load demand reduction, voltage control, capacity firming, and other ancillary services.

International Conference on Smart Grid and Energy scheduled on January 17-19, 2025 at Kowloon, Hong Kong is for the researchers, scientists, scholars, engineers, academic, scientific and university practitioners to present research activities that might want to attend events, meetings, seminars, congresses, workshops, summit, and symposiums.

2025 2nd International Conference on Smart Grid and Energy. Welcome researchers, experts, scholars, engineers and students from all areas of Smart Grid and Energy to participate "2025 2nd International Conference on Smart Grid and Energy" amid January 17-19, 2025 in Hong Kong, which is a prestigious event that brings together experts, researchers, practitioners, and ...

Professor, The Hong Kong Polytechnic University? - Cited by 15,925? - power system? - smart grid? - wind energy? - solar energy? ... Photovoltaic and solar power forecasting for smart grid energy management. C Wan, J Zhao, Y Song, Z Xu, J Lin, Z Hu. CSEE Journal of Power and Energy Systems 1 (4), 38-46, 2015 ...

In the Smart City Blueprint for Hong Kong, which was published in December 2017, the areas for the



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implementation of AMR were outlined. In all, around 55 000 smart water meters will be installed between 2018 and 2019 at these two new development areas. According to WSD, promoting the wider use of AMR helps develop Hong Kong into a smart city.

Hong Kong's electricity distributor and transmitter CLP Power Hong Kong Limited has announced installation of two million smart meters for more than 70% of its customers. ... Smart Energy International is the leading authority on the smart meter, smart grid and smart energy markets, providing up-to-the-minute global news, incisive comment and ...

A gold award and a silver award are selected from each of the five categories: Smart Transport, Smart Buildings, Smart Grids, Smart Jobs and Consumers, and Low Carbon Model Towns. In 2022, a joint project by the EMSD and the Hong Kong Green Building Council won the gold award in the Smart Jobs and Consumers category.

Dr. Miao MIAO - Large-Scale Energy Storage System Planning and Operation. ... The University of Hong Kong(2015-2016) Professor, Guangxi University, China (2016-) Dr. Chong WANG ... "Operational methods in smart grid with intelligent periphery under uncertainties and severe events "PostDoc, The University of Hong Kong(2016-2018) Engineer ...

Better understanding the behavior of various participants in smart grids, such as electricity consumers and generators, is important and beneficial for flexibility exploration and renewable energy ...

CLP Power Hong Kong Limited (CLP Power) today opened its Smart Grid Experience Centre, which is the first exhibition and education facility of its kind in Hong Kong. The Centre will help raise public awareness of smart grid by showcasing the features and benefits of smart grid together with the latest smart grid-specific technology and development.

My research and teaching focuses on three broad domains: sustainable energy transitions (smart grids, renewable energy), energy governance, and comparative policy-making, mainly in the Asian ...

Prof Z.Y. Dong is a Chair Professor and Head of Department of Electrical Engineering at City University of Hong Kong. His previous roles include Singapore Power Group Endowed Professor and Co-Director of SPG-NTU Joint Lab at Nanyang Technological University, Singapore; SHARP Professor of Energy System and Inaugrial Director of UNSW Digital Grid Futures Institute, the ...

I am currently an Assistant Professor at the University of Hong Kong. My research interests include load forecasting, multiple energy systems, and big data applications in the smart grid.

In the midst of City 4.0, infrastructures like buildings, energy grids, mobility networks, or their self-learning systems are interconnected to provide new values, such as energy feed-in tariff that allows individuals or households to produce energy and consume mainly for their own needs. ... Hong Kong shared its smart city

roadmap by ...

The rapid urbanization and growing energy demands in Hong Kong have intensified the need for innovative solutions in energy management. This paper explores the integration of Internet of Things (IoT) technologies in the development of smart grids to enhance sustainable energy management in Hong Kong. The study examines how IoT-enabled smart ...

smart grid technology. The expansion of renewable energy (RE) assets is intricately linked to the growth of smart grids investment across the globe. In 2022, China accelerated smart grid investment with the State Grid Corporation of China (SGCC), budgeting more than RMB500 billion for ultra-high-voltage projects,

SP Group's annual Smart Grid Index indicates that grids are getting both smarter and greener in North America, Europe and Asia Pacific. ... SP Group itself is well down the ranking in 33rd place, scoring equally with Baltimore Gas & Electric, Hong Kong's CLP Power, Guangzhou Power and State Grid Shanghai from China and Western Power from ...

Hong Kong aims to have 60-70% of its energy supply from carbon-free sources by 2035, which includes nuclear energy. ... electrical grid interconnection with China Southern Power Grid, importing nuclear electricity from Guangdong provides stable and cleaner electricity supply for Hong ... Hong Kong is its pursuit of becoming a Smart City and ...

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Our results indicate that Hong Kong consumers generally welcomed smart grid technologies and had a preference for energy saving, energy efficiency and renewable energy while they showed a high level of opposition to nuclear power.

Her research focuses on social aspects of smart energy transitions, specialising in interdisciplinary research that cuts across the fields of energy technologies (smart grids, solar power, wind energy, nuclear power, and building energy efficiency), energy governance, and sustainability policy studies, with a geographical focus on East Asia ...

Smart grids are changing the way electricity is managed, delivered, and consumed. Unlike traditional power grids, smart grids use advanced technologies like AI and IoT to improve energy distribution efficiency, sustainability, and reliability. Grids adapt dynamically to shifting energy demands, reduce waste, and feature renewable energy sources, while ...

Professor Hui remarked, "Hong Kong's usage of renewable energy is less than 1%. Even though the power company launched projects on smart grid or smart meter, it doesn't mean that we are switching to



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renewables." ... Professor Hui added, "we believe renewables is the solution to energy crisis, and smart grid is the key to assure this ...

The utility will install an advanced metering infrastructure (AMI) and leverage Landis+Gyr's advanced grid analytics technology as part of efforts to transform Hong Kong into a smart city. The AMI comprises smart meters, communications infrastructure, head-end system and meter data management systems to be deployed over the next two years.

Hong Kong. Attachment: Smart Energy Programme fact sheet About CLP Power Hong Kong Limited CLP Power Hong Kong Limited ("CLP Power") is the Hong Kong utility subsidiary ... The development of smart grid is a global trend. CLP Power has begun to develop smart grid since 2011. With the AMI system, small-scale distributed renewable energy systems ...

6 ???· My research interests include data analytics in the smart grid, energy forecasting, multi-energy systems, Internet-of-things, cyber-physical-social energy systems. Find me on: Google Scholar, ORCID, and ResearchGate. ... Hong Kong-General Reseach Fund (GRF), as PI. June 2024, I was awarded the Best Teacher Award for the academic year 2022-2023 ...

TY - CHAP. T1 - Smart Grids. T2 - The Regulatory Challenges. AU - Mah, Daphne Ngar-yin. AU - Leung, Kaboo Po-yi. AU - Hills, Peter. N1 - Funding Information: A grant program provided funding for smart grid projects with the requirement of preparing and implementing cybersecurity plans (CSP) tailored to the projects We gratefully acknowledge the funding of our research by ...

The findings of this study are city-(Hong Kong) and technology-(smart grids) specific. However, Hong Kong shares with Singapore, Tokyo, New York and many other compact cities some general characteristics such as high energy consumption, a physical built environment dominated by high-rise buildings, high residential densities and a high degree ...

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