

The energy system is typically a major source of environmental problems, irrespective of the level of economic development. ... The EPD position was given further credence by an independent study of the potential for private contractor monitoring of industrial sulphur dioxide emissions in Hong Kong which concluded that, under the specific ...

This novel initiative is the first to focus on managing carbon emissions throughout the life cycle of buildings, and it clearly defines the scope of carbon audits, encompassing both operational carbon and embodied carbon, from buildings in Hong Kong (Chen et al., 2023; Hu, 2023).CCFBE serves as a guiding standard for the industry, with a focus on consistency in the ...

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This partnership resulted in several noteworthy Janitza Power Monitoring projects in Asia; including Gardens by the Bay (Singapore), NTU (Singapore), HSBC Data Centre (Hong Kong) and many more. Power-factor correction is another specialised area that requires unique electrical engineering knowledge and experience.

There has been an increasing awareness of indoor air quality (IAQ) management in green building designs, driven by the need to mitigate potential health risks and create sustainable and healthy indoor environments. The COVID-19 pandemic has further highlighted the critical role of ventilation and IAQ in reducing the risk of indoor airborne ...

A total of 45 older adults recruited from 3 elderly care centers in Hong Kong were instructed to use the system for 3 months. Exploratory data analysis was conducted to summarize the collected datasets. ... Telehealth monitoring systems utilize telecommunication technologies (eg, digital monitoring sensors) to capture and deliver health data ...

This paper presents the findings from this research project funded by the Industrial Support Fund of the Hong Kong SAR Government. Simulation and data monitoring have been completed for energy performance of the BIPV system under Hong Kong weather conditions. ... The first building-integrated photovoltaic system (BIPV) in Hong Kong has been ...

Vertiv(TM) Energy Power Management Systems (EPMS) provides hardware, software and digital solutions that increases visibility into- and control over - facility power operations. Teams gain the insights they need to make continuous improvements to power operations, while the EPMS can automatically detect the loss of power and an outage and select appropriate alternative power ...

Hong Kong industrial energy monitoring system

The first grid-connected BIPV system in Hong Kong was installed on the three walls and the roof of a plant room on a building, as shown in Fig. 1, PV panels integrated on the horizontal roof and the vertical east, west and south facades. An air gap was designed between the massive wall and the PV panels for the three vertical facades so that natural ventilation ...

Buildings represent 90% of the energy consumption in Hong Kong. It is essential to reduce the electricity use in buildings to tackle climate change together. We provide custom-made energy management solutions to optimise your energy bill, combining continuous monitoring and operations to reduce the environmental impact.

The system was approved by the Hong Kong CLP, officially launched in February 2021, and successfully completed in May 2021. It is currently the single largest solar power system in Hong Kong. This ...

Hong Kong, Our Brands ... Remote management and monitoring systems offer a consistent and reliable method of monitoring assets and collecting vital performance metrics. Process or facility supervisors and other staff are supplied with real-time performance statistics, which provide critical information on the system's condition, processes ...

With extensive application of sensitive power electronic equipment and non-linear loads in industrial and commercial applications, the consequential problems that result are vast.

Typical energy savings in an industrial setting (from low- and no-cost measures): o 5-7% annual improvement is common o 30% over 3-4 years is not unheard of . ISO 50001 requires continual energy performance improvement. It does not include prescriptive energy performance improvement goals.

Supporting building life cycle carbon monitoring, reporting and verification: A traceable and immutable blockchain-empowered information management system and application in Hong Kong ... First, building is an extremely complex industrial product consisting of thousands of materials and building products (e.g., steel, cement, glass, etc.) (Chau ...

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