

HKUST High Performance Building Standards The Hong Kong University of Science and Technology (HKUST) strives to be a leader in sustainability, as ... EU 4 - Metering and Monitoring: Achieve 1 plus 2 bonus credits for providing energy monitoring system and performance auditing monitoring system for equipment and systems in spaces, and

It is the first commercial building in Hong Kong which has achieved the highest level of recognition under the BEAM Plus assessment for existing buildings. This project showcases how a 20-year-old building could contribute in energy saving and green building transformation in Hong Kong. Keywords: existing buildings, BEAM Plus, energy consumption 5.

Install energy consumption monitoring systems; EE labeling: Mandatory Energy Efficiency Labelling Scheme (MEELS) The Government has enacted EELPO to implement the MEELS and will continue on-going dialogue with stakeholders to tighten and expand MEELS. ... Having laid a foundation for energy wise green building in Hong Kong, the next step is to ...

Commerce Centre (ICC) is an iconic building in Hong Kong. The 484-meter-tall building, with 108 stories, is currently the 6th-tallest building in the world and the tallest in Hong Kong. Apart from providing Grade A office premises, ICC also contains one of the first observation decks in Hong Kong - Sky100 - as well as a premium class

GOVERNMENT BUILDINGS . OF . THE HONG KONG SPECIAL ADMINISTRATIVE REGION . 2017 EDITION (INCORPORATING CORRIGENDUM NO. GSAC01-2017) ... SECTION B5 CENTRAL CONTROL AND MONITORING SYSTEM (CCMS) B5.1 General Requirements . B5.2 System Architecture B6.11 Total Energy Heat Pump . B6.12 Vibration Isolation .

Hong Kong's buildings account for about 90% of the city's electricity usage. Over 60% of our carbon emissions are attributable to generating electricity for our buildings. ... Smart Energy Monitoring for Sustainability and Operations. Using ...

The first Web-based Energy Dashboard with native BACnet communication since 2012 in Zero Carbon Building in Hong Kong, cooperating with Siemens Hong Kong. The dashboard visualizes power and energy data from building ...

Supporting building life cycle carbon monitoring, reporting and verification: A traceable and immutable blockchain-empowered information management system and application in Hong Kong ... More important, trusted MRV tools are also essential for building energy performance and emissions trading systems.

Unfortunately, existing tools do not ...

The Hong Kong Green Building Council (HKGBC) has launched the "HK3030" campaign so as to reduce the absolute building electricity consumption in 2030 by 30% from that in 2005. ... The proposed framework is a well-defined concept that can realize a big picture of an intelligent building systems for the energy-efficient, occupant-oriented, and ...

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 ...

ABSTRACT: In Hong Kong, buildings consume most of the energy and are the major contributor to the greenhouse gas emissions. To combat consequent climate change, Hong Kong opened its first Zero Carbon Building for the public ... remaining energy loads. Monitoring systems were added for the day to day operation. In addition, despite the hot

The buildings and construction sector accounts for about one-third of global energy use and greenhouse gas (GHG) emission. Driven by the incentive to reduce energy costs and by concerns about climate change-related disasters, some Southeast Asian countries have adopted green building practices in recent years, creating opportunities for Hong Kong ...

the Hong Kong Energy End-use Data 2021 [1] (which is uplifted to 30% in 2021 as per the Hong Kong Energy End-use Data 2023), ... The central control monitoring system (CCMS) should be furnished with trend-log mechanism, while the chiller sequence, number of ... It always happened in aged in-services buildings. To benefit from the energy saving ...

Reduce the cost for installation and re-cabling for the revamp of existing building management systems into a smart one. Facility management can get the operation conditions of the building systems while saving the energy ...

o The Hong Kong Institution of Engineers (Building Services Division) ... Solar Photovoltaic (PV) systems in Hong Kong can be classified into three main types as below: a) Standalone Systems ... battery charge controllers, performance monitoring systems, etc. 2 DESIGN CONSIDERATIONS. PV ell PV ole PV stn PV aa Hanboo on Desn Oeaton an ...

CENTRAL MONITORING & CONTROL SYSTEM ... Installation in Government Buildings of the Hong Kong Special Administrative Region. 2. This Testing and Commissioning Procedure is copyrighted and all rights (including ... 4.6.5 Energy Efficient Equipment & Systems 85 4.6.6 Control Systems 87 4.6.7 Noise and Sound Tests 104 4.6.8 Vibration Tests 106 5 ...

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