# AEE Hong Kong Chapter
## 美國能源工程師學會香港分會

## Technical Seminar

## Application of Big Data Analysis Enhancing Sustainable Operation in Data Center – Case Sharing

## Event Description:

Big data analytics enhances data center operation and energy efficiency in recent years. Due to the high technical requirement of data center, sensors and monitoring system has been implemented and massive data can be extracted from those monitoring system to ensure the safe operations of the data center. The presentation provided several applications of data utilization improves data center efficiency through predictive maintenance, optimized energy consumption, workload allocation, etc. by leveraging advanced analytics techniques in large datasets, which enables data centers to operate in smart and sustainable environment.



### Equinix Hong Kong

Equinix Hong Kong International Business Exchange™ (IBX®) data centers host the leading regional internet exchange and one of the area's most carrier-dense network hubs.

They provide a digital infrastructure foothold in this strategic location to international and Chinese cloud providers, some of the world's largest financial institutions, professional services firms, fintech startups and other enterprises. Being at Equinix gives their Hong Kong nodes direct network access to customers and partners in the digital supply chain.



Topic Outline:

1. Overview of Sustainable Features in a Hong Kong Data Center (By Mr. Wai-ho Leung)

2. Self-Developed Automation Platform for Data Hall Monitoring (By Mr. Victor Kwan)

3. Sustainable Operations Tools via Big Data (By Mr. Herman Hui)

4. Q&A Session

Speaker Bios:

### Bios of Wai-ho Leung

Wai-ho has been working for Equinix Hong Kong Limited as Manager in Data Center IBX Operation team since 2019. He has participated for a variety of sustainable design and energy saving projects in Equinix including chiller plant AI optimization control, airflow management best practices, UPS and CRAC units improvement projects etc.   He had been worked as sustainability consultant in 13 years since 2016, who experienced in sustainable MEP system design and integrated system optimization. He also works on microclimate & Air Ventilation Assessment study, sustainable building design, testing and commissioning works, Computational Fluid Dynamic analysis, LEED and BEAM Plus assessment and sustainable system design works.

### Bios of Hui Man Ho Herman

Herman has been working for Equinix Hong Kong Limited as Senior Associate Electrical Engineer in IBX Operation team since 2022. He has participated in variety data analytic, electrical system improvement and energy saving projects in Equinix. Herman is also holder of Chartered Energy Engineer, Certified Energy Manager and Retro Commissioning Professional that support to enhance smart and sustainable data center development.

### Bios of Kwan Chun Sun Victor

Victor has been with Equinix Hong Kong Limited since 2017. He initially worked as an Engineering Trainee and was involved in several data center commissioning projects and data center facility operations. Currently, Victor serves as a Senior Associate Mechanical Engineer, primarily focusing on mechanical system energy-saving projects and data analysis. He is passionate about using data analytics to enhance energy efficiency and IBX operations.

Duration:

2 Hours

Why Attend?

◇ Learn how big data optimizes *energy consumption & predictive maintenance*
◇ Discover *real-world applications* in Hong Kong data centers
◇ Gain insights from *Equinix experts* on automation & sustainability tools

Who Should Attend?

Facility managers, maintenance professionals, and technical personnel involved in data analytics and sustainability in data center prospective.

This seminar for 2 hours CPD is provided by AEE Hong Kong Chapter.

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## Event Detail:

Date: 30th July 2025

Time: 6:30 pm – 8:30 pm

Venue: The Hong Kong Polytechnic University, HJ302 (Main Campus)

E-CPD Certificate: 2 hours e-CPD Certificate will be issued within 1 month

Fee: Free of Charge (Priority will be given to AEE HKC, ASHRAE HKC and EIHK members)

No. of participants: 100 max.

Language: Cantonese

## Registration:

For registration, please click the online link at:

https://forms.gle/MZ2LtudabUS2G8qUA

Registration deadline: 30 June 2025

For enquiries, please contact Mr. Kenny Chan at 852-97934312 or aeehkc@gmail.com

## Organized by:

AEE Hong Kong Chapter



## Supporting Organizations:

ASHRAE Hong Kong Chapter



Energy Institute Hong Kong Branch



## Supporting Institutions:

The Hong Kong Polytechnic University



Department of Building Environment and Energy Engineering