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## **Sustainable Data Center Infrastructure Meets Hong Kong Carbon Neutral Target in 2050**

Climate breakdown is a global issue that threatens the lives of us all. Every aspect of social activities needs to take a transformational change to curb carbon emissions, and the Data Center industry is no exception. Skyrocketing data demand means the sector now consumes around 1% of the world's electricity, according to the International Energy Agency.

In the 2020 Policy Address, the Chief Executive has listed attempts to explore zero-carbon energy, decarbonisation technology, energy efficiency enhancement in new and existing buildings, green transportation, and construction of large-scale waste-to-energy facilities, with the goal to achieve carbon neutrality before 2050.

To cope with the rising data center demand and carbon emission challenge, industry providers are mapping out ways to lower Power Usage Effectiveness (PUE) levels by ongoing efficiency improvements and through sustainable data center infrastructure. Green innovations such as Data Center Infrastructure Management (DCIM) solution, advanced cooling systems, and renewable energy are deployed to minimize carbon footprint and enhance energy management. Thus, the demand for



## Project Updates

### Upgrade of existing BMS to iNAV DCIM solution for a Hong Kong Financial Authority

In 2021, Newtech was appointed by a Hong Kong Financial Authority to upgrade the BMS system to the iNAV DCIM solution and performed the PUE improvement for the online Data Center.

We provided data migration service with a simplified onboarding setup from existing BMS system to our iNAV DCIM. Besides, we offered built-to-suit and real-time facility management information. The Energy Management module showed the consumed power allocation, PUE calculation, and analysis of energy loss and cost, which increased cost efficiency and reduced the OPEX.

After implementation, the PUE has been improved from 1.75 to 1.5. The monthly power consumption has been reduced by 15% significantly.



### Expanding iNAV DCIM Solution for a Hong Kong Top-ranking University

In 2019, Newtech was nominated by a Hong Kong Top-ranking University as one of the key contractors for online Central Data Center expansion. Recently, we were appointed to adapt the iNAV DCIM for the rest of the online data center. The project scope included a simplified onboarding setup, data migration service, built-to-suit, and real-time facility management information delivery through 3D editable visuals.



Newtech's specialists upgraded the iNAV DCIM solution for a long-term partner, a leading Chinese Commercial Bank's Macau branches.

The scope of the project focused on upgrading the existing BMS system to the compatible iNAV DCIM solution. With this advanced software, the customer can monitor both facility management and IT with one click.

This intelligent solution facilitated planning and control. It minimized cost and workforce by integrating real-time information. Data center managers can further utilize it for monitoring, managing, and long-term assessment.

In face of the pandemic, we overcame the challenge of security and remote installation by deploying our local technical team for 6 months.



## Event Highlights

### Newtech x CLP Energy Saving Initiatives Seminar

A seminar on 'Newtech x CLP Energy Saving Initiatives' was held on November 2, 2021 at Smarthub@CLP. Our Sales Associate Director, Isa Fong shared application tips, CLP Electrical Equipment Upgrade Scheme (EEUS) successful cases, and our smart data center technologies with the participants.



### Supporting Global AI Challenge for Building E&M Facilities

Newtech is pleased to become one of the Gold Sponsors of the inaugural Global AI Challenge, for Building E&M Facilities organized by The Electrical and Mechanical Services Department (EMSD) of the HKSAR government.

The Challenge will last for six months till March 2022 and attracts over 300 global entities such as universities, engineering institutions, IT professional societies, and start-up companies. It brings together the best and brightest minds in the global AI industry through an international technical conference, AI contest, pre-contest workshop, and a prize presentation ceremony.



# Upcoming Events

## New Date of Data Centre World Singapore

In view of the global COVID-19 situation, Data Center World Singapore 2021 will be rescheduled to 12-13 October 2022 at Marina Bay Sands.

Save the date to explore the advanced features of the iNAV DCIM solution and take a deep dive into the other critical equipment for Data Center Infrastructure Management with our specialists. Stay tuned for more updates on the registration.



# DATA CENTRE WORLD

# Strategic Partner

## Newtech Supports CLP Power Academy

Exploring a pathway for your upward progression in the power and E&M engineering?

CLP Power Academy invites applications for admission to its Professional Diploma in Power Engineering which will commence in April 2022. This 1-year part-time program is jointly organized by CLP Power Academy and the Vocational Training Council (VTC), allowing students to obtain three professional qualifications.

As one of our strategic partners, CLP offers a diverse range of part-time programs through the CLP Power Academy. It provides an alternative for school leavers and working adults to pursue professional knowledge and enhance their career prospects.

For further information and course enrolment, please call +852 26780611 or visit <https://bit.ly/3xZ9Mbq>

CLP Power Assets VTC

向上游的動力

# 電力工程專業文憑課程

1年獲取 **3+1** 個香港及內地專業資格

課程由中電學院與職業訓練局合辦，協助有2年或以上電力相關經驗人士，考取本地電工H牌，及中國內地認可的高壓電力工作牌照，成就更高、更廣的事業發展。

### 課程優勢

- 兼讀制，12至15個月完成，靈活性質
- 提升學務於電力系統分派及廠房機電分流的實用知識
- 屬多項「Vplus工程專才進修資助」受惠60%課程費用
- 學前可在全新「中電電力工程實驗室」參與操作，掌握行業的最新技術發展
- 可銜接至電機/機械工程學士學位課程，開拓專業之路

### 入學要求

須符合以下其中一項：

- 香港中學會考/中學文憑試五科成績達E級/第二級或以上，包括英語語文及中國語文科
- 修畢具O/F3資歷架構認可的課程
- 年滿二十一歲或以上(或憑參加入學班評核)及具兩年相關工作經驗

### 修畢課程可獲

**3+1專業資格**

- 青優預備第4級認可
- H級電力工程人員的資格\*
- 中電特種人員資格

可同步加修 **高壓電工作業人員培訓課程**，考取中國內地「特種作業操作證(高壓電作業)」資格

**NEW! 高壓電工作業人員培訓課程**

- 由中電學院、香港職業訓練局及廣州市工貿技師學院合辦，為修讀此專業文憑課程-電力系統分流的學員及學生而設
- 兼讀制課程，歷時6個月完成
- 修畢課程可考取內地高壓電工牌照，投身大規模發展
- 學前可在廣州市工貿技師學院進行實際操作教學

課程簡介

- 2022年1月10日(星期一)
- 晚上7時至9時半
- 九龍長沙灣荔枝角道702號 IVE(崇光樓分樓) / 網上報名

裝備自己，立即報名!

截止報名日期 **2022年2月28日**



## Experience Sharing in HKGCC's The Bulletin

Newtech was featured in the August issue of HKGCC's The Bulletin, with the highlights of our capabilities on critical infrastructure design and built, our establishment in Hong Kong, and expansion across the Asian region.

Our Founder and Managing Director Charles Lee shared our experience, remarkable projects, and leading-edge solutions.

Check out the e-magazine and read the full article on p.38: [bit.ly/3m9b2UF](http://bit.ly/3m9b2UF)

Member Profile 會員專訪

### A Thriving Hub for Data 數據中心蓬勃發展

Rapid advances in technology mean that data centre infrastructure services are being demanded across the region 快速發展的一字塔，帶動各大數據中心興建及擴展需求

**A market leader in the data centre infrastructure sector, Newtech Technology has seen 80 years of experience in electrical and mechanical (E/M) systems and IT infrastructure for data centres and critical environments. With headquarters in Hong Kong, the company's regional presence includes Singapore and Vietnam as well as major regional cities.**

"We aim to provide consultancy, design, implementation, as well as operation and facility management for our clients," said Frank Lee, Managing Director Charles Lee.

An applied financial and technology hub, Hong Kong's data centre market is booming. From opportunities, and every day, as the number of data centres that allow for networks, artificial intelligence, machine learning, and other technologies to meet an exponential rise.

This makes the city an ideal spot for Newtech to capitalise on and meet demand-related demands for more efficient, environmentally data centres. However, the rapid growth of the industry has created challenges as well as opportunities.

"Supply and operations are critical to data centres," Lee said. "It is necessary to find suitable candidates for the data centre industry, from the design stage to the operation stage."

This is one of the reasons that led to the HKGCC, as the Chairman has a large and well-established network of industry experts from all around the world.

"The Chamber has provided opportunities for business connections across various industries," said Lee. "It has provided us with a platform for exchanging market information among other members."

Fortunately, Newtech has its own team of experts that provide a full range of solutions, including state-of-the-art design, management, platform, and maintenance services for their clients.

"This platform has 30 years of development, our professional team of engineers and experienced operators have provided them with the best working environment," said Lee.

HKGCC Bulletin August 2021

# Corporate Social Responsibility

## Caring Company Certification by The Hong Kong Council of Social Service

We are delighted to be recognized by The Hong Kong Council of Social Service (HKCSS) as a Caring Company for over a decade.

Newtech pledges to ensure the well-being of the community, employees, and the environment. During these challenging times, we continue to support underprivileged communities, employees' well-being, and environmental sustainability through various initiatives.



## Mooncake Donation-Spreading Love and Blessings

Newtech, in collaboration with 12 NGOs, including the Boys' & Girls' Clubs Association of Hong Kong, Hong Kong Christian Service, and the Lutheran Church Hong Kong Synod, donated over 5,000 mooncakes to the solitary elderly and families in need. We aim at spreading love and care in the season of reunion and happiness.



## Support for Underprivileged Students in E-learning

Since the COVID-19 outbreak, online learning has become more centric in people's lives. Newtech donated 50 computers and 70 data sim cards to students from low-income families to undertake e-learning at home through The Boys' and Girls' Clubs Association of Hong Kong and People Service Centre.



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