

# Newtech newsletter Vol. 1 2018

## Latest inclusive product – Innovatech INVT power solution

In order to meet the needs of SMEs and expand Newtech's customer base, we now introduce the latest power product – Innovatech's INVT series. The series combines innovative technology and affordable price. With its size and cost, it is suitable for companies of different sizes to drive efficiency and productivity.

### Traditional vs Modular UPS

Traditional data center UPS systems have for years used some form of double conversion design, taking alternating current AC, change it to direct current DC, which charges the batteries and then re-convert it back to AC. They used rather large modules to create high capacity systems or to obtain "N+1" redundancy. Three 500 kVA UPSs, for example, could be intended to deliver a maximum of 1,000 kVA, so if any one unit fails or is shut down for service, the full design capacity is still available. In recent years, the trend has been toward the use of much smaller modules (10 kVA to 50 kVA) to make up larger UPS systems. Meeting the market trend, it makes the INVT series the hottest item in the UPS market.



## Advantages

The principle advantages touted for the INVT series is the ability to grow capacity as needed and reduce maintenance cost. The modules are hot swappable and can be returned to the factory by the user for exchange or repair. Modular systems are also generally designed to accept one more module than is required for their rated capacity, making them inherently "N+1" capable at much lower cost than would be possible with the very large system. Increased availability is another benefit. Each UPS unit's availability can be defined as a ratio between its mean time between failures (MTBF) and mean time to repair (MTTR), whereas a standalone unit takes typically six hours to repair, some modules can be simply swapped in less than half an hour. This reduced MTTR gives a hot swapping module an availability of 99.9999% even before allowing for the resilience provided by the N+1 configuration. This level of power protection is key to users, but cost savings accrue as well. Inventory cost for specialist parts is reduced, and the need for highly skilled on site technicians is eliminated.

## Result

The last potential advantage to modular UPS systems is efficiency. A UPS system runs at highest efficiency when it is near its maximum rated capacity. As load level drops, so does efficiency. The losses may not seem great on the surface, but it adds up and as we become increasingly concerned about energy waste and cost, this starts to become a consideration. Innovatech INVT series can definitely help easing the concern.

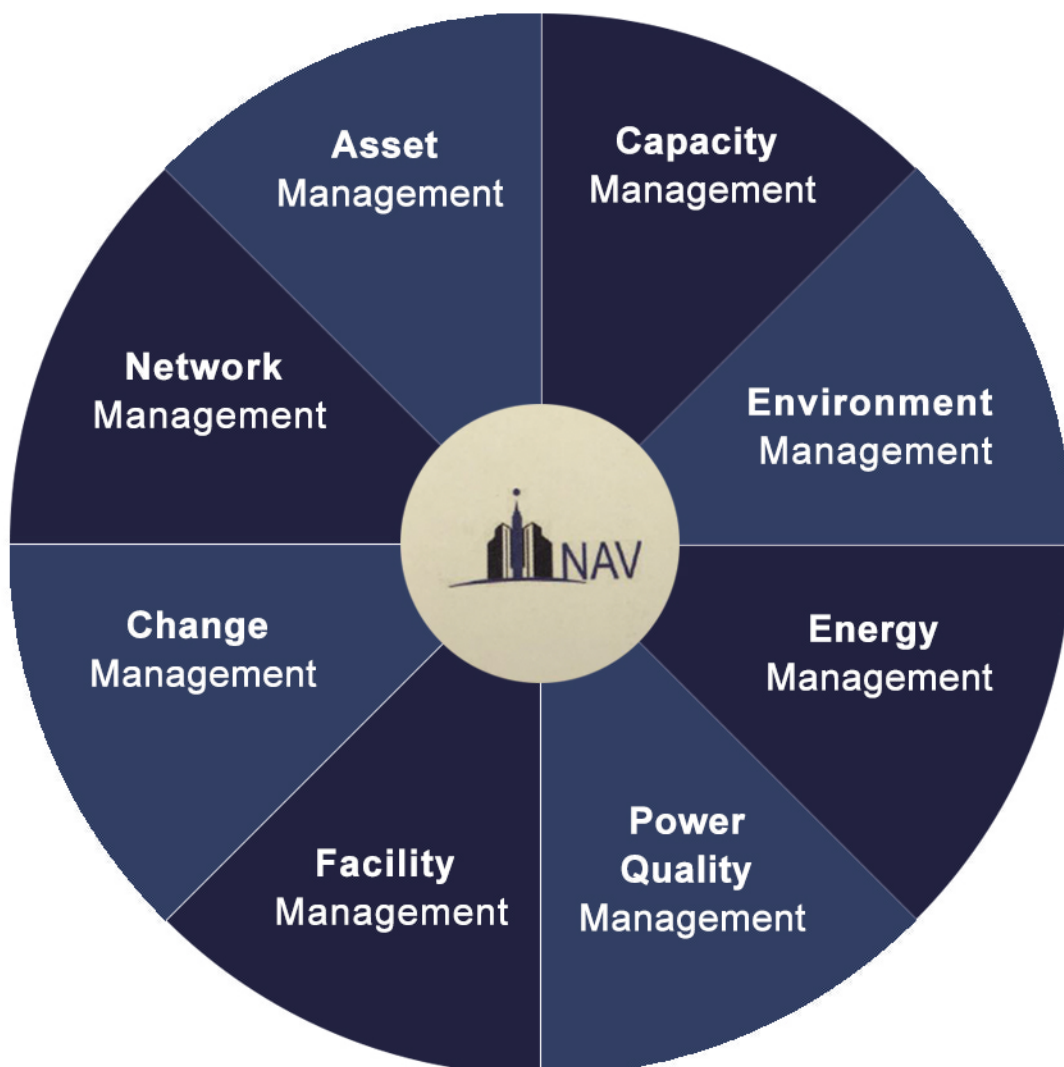


# Technology update

## INAV – Keep track in one click

Stability and reliability are the core requirements in a mission critical environment such as data center. A minor error in the IT-infrastructure can cause huge disaster to the whole business operation. To prevent such unfortunate event, Newtech now offers DCIM solutions to oversee a data center's entire operation, including both facilities and network performance. They provide corporate insight into optimizing their operation, as well as efficiency in data center management. DCIM solutions enable data center operators to monitor, manage and maintain the availability of the data center's facilities such as IT servers, power distribution, cooling, security system and network system, thus enhancing the data center's performance while reducing the operation cost ultimately.

## Full stack monitoring & function modules



# Project update

## Hong Kong

### French bank setting up BCP center

A French universal bank that is the third largest bank by total assets and seventeenth by market capitalization with divisions supporting Global Transaction Banking, International Retail Banking and Financial services. It makes it essential and critical for the bank to apply high security and monitoring to their data. Taking in consideration of their pervious BCP site was a cold site with a pushing terminating date of the contract, the bank needs a brand new BCP as their warm site. It allows them to put their



staff in the site for work duties with easy transport access to the location. Even with the rush time schedule, Newtech managed to complete the site in one and a half month time.

### An international telecommunications services company expanding their Data center and E&M infrastructure upgraded

As one of the largest telecommunications and technology companies, they offers a wide range of services globally. Newtech was appointed as their main contractor for the Data Center expansion and E&M infrastructure update. We have expanded a 85 racks data center including comprehensive turnkey solution.



### Project highlight

**Battery** monitoring system

**Branch** Circuit Monitoring

**1000kVA** Generator with PLC control replacement

**Chilled** Water CRAC

**Main** BMS replacement

**Security** system (CCTV and ACS)

**Water** Leakage Detection System

**LV** Switchboard and Busduct Installation

**Chiller** plant modification

## Chevalier setting up Disaster Recovery site and server room



Chevalier (Network Solutions) has been designated to participate in large-scale projects by offering network solutions and facilities to a range of intelligent buildings and large corporations. Therefore, a quality server room and Disaster Recovery site are something they cannot operate without. With such a high standard on their server room, Newtech has designed and built a 700sq.ft main server room and a 300sq.ft Disaster Recovery site, including builder works, E&M works, UPS, BMS, Fire Services and etc.

## WR2 test and application for an American bank Data Center

The bank's realty service manages over 10,000 properties across the globe and supports the businesses through the development and maintenance of office buildings, data centers and branches. Their premises are to be run cost-effective, safe and efficient. The bank has employed Newtech as their electrical contractor to inspect and test their electrical installations. After the test, we issued a "Periodic Test Certificate – Form WR2" and assist them to complete the application.



## Bank of China (Macau) replacing 200kVA UPS

Bank of China Macau Branch holds a full banking license and provides corporation banking, personal banking and related financial services in Macau. In recent years, the branch has actively expanded business in investment banking, structural financing, and comprehensive cross-border banking services in order to provide better internationalized professional service for customers' various financial needs. With such a big demand of their usage of data, their data center needs to reduce toxic waste and increase their efficiency. Therefore, Newtech has replaced the existing 2 sets of 200kVA UPS on their live data center.



# China

## Building Nantong Data Center for OneAsia in progress

As OneAsia expands its footprint to the Greater Shanghai Economic Sphere, it has established its data hosting capabilities in NanTong (Jiangsu). As the main contractor of OneAsia NanTong Data Center Park, Newtech has designed and built a world class data center with 18,000 standard cabinets. The whole workshop covers 120,000m<sup>2</sup>, with the installation of state-of-art equipment and latest monitoring system.



### Power:



**150** MVA main availability

**200.00** MW total power

**10.00** kW max rack power

**2N** Backup Power Redundancy

### Other technical feature:



**PUE 1.3** recirculating cooling water system

**FM200** gas suppression, pre action sprinkler

# Singapore

## Building Data Center and supplying CRAC system for Singapore leading telco

The company is one of the three major telcos in the Republic of Singapore and has been providing data center service for the last 14 years. In July 2017, they expanded their business by establishing a brand new data center in Changi North, Singapore. As their contractor, Newtech built and designed the data center with supply, installation and E&M system. In the same year, Newtech has also supplied 4 units and 12 units of chilled CRAR system to their data centers respectively.



# Event update

## Legan networking party

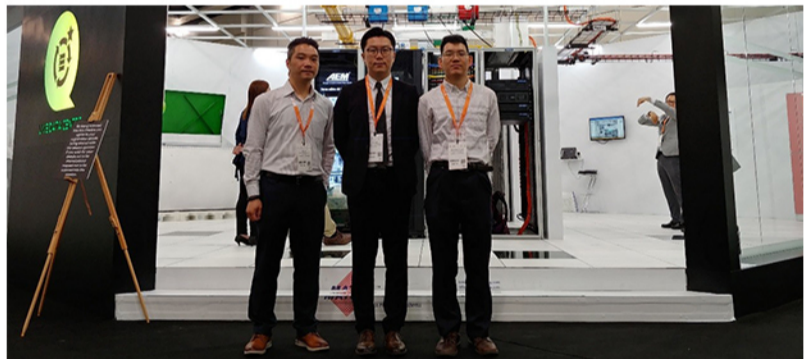
Organized by the Legan Group, the annual party has been held on 8 December, 2017 at The Excelsior Hong Kong. Themed with “Blossom the Future”, wishing both our staff and guests a splendid future. We had a meaningful night catching up with our clients and guests.



## Datacenter world 2018

As one of the partners of the event, Newtech is participating in Data Centre World, co-located with Smart IoT Hong Kong and The Cloud Expo Asia, held at Hong Kong Convention and Exhibition Centre (HKCEC) on 16 - 17 May.

Themed “SMART & INTELLIGENT DATA CENTRE OF THE FUTURE”, this leading industry summit expects 2,000+ senior IT Security professionals and decision makers to attend. Our main focus is to introduce our display in Live Data Center: Newtech takes part in the demonstration of DCIM solutions enabling data center operators to monitor, manage and maintain the availability



of the data center’s physical facilities such as IT servers, power distribution, cooling, security system and network system, thus enhancing the data center’s performance while reducing the operation cost ultimately.

# Charity

## Organic farming and vegetable donation

Funded by the Legan Group, the Legan Foundation was established in 2009 with an aim to provide much-needed help for those suffering from difficulties. "耆樂綠融融" Organic farming and vegetable donation started in April 2013, it targets the elderly (especially single elderly), CSSA and low-income families. We set up a 10,000-square-foot farm in Tai Kong Po Village, Kam Tin, Yuen Long to organically grow seasonal vegetables suitable for elderly people. This year, our farm harvests 4,950 kg in January and 3,900 kg in March. We distributed it through different service organizations



and volunteers, hoping to make a contribution to the community by indirectly alleviating the financial pressure on the recipients, and promote the elderly's information and health and green life.

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