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Delta once again hosted an official side event at COP24, the United Nations Climate Change Conference in Poland, to discuss the role of distributed energy resources in advancing the energy transition of cities. As a leading company in energy-saving technology, Delta applies a distributed energy framework to energy storage systems, the energy efficiency of buildings, and EV charging to enhance the energy resilience of cities worldwide. Delta strives to support the latest IPCC target of net-zero emissions by 2055 in response to increasingly severe climate change.

Since the announcement of its organizational adjustment in 2016, Delta has been creating integrated applications based on power electronics, with key businesses: automation and infrastructure, that conforms to the IoT architecture. This will allow Delta to get ahead in its transformation and take advantage of future market opportunities. In light of this, beginning this year, Brand News Bi-Monthly will open a new column named “IoT Smart Solutions,” which will cover Delta’s IoT, energy-related product technologies and application trends. The current issue will start with an article on Delta’s corporate campaign “IoT-based smart green solutions,” which was established with the assistance of the Brand Management Office in 2018. The campaign is intended to help colleagues learn more about Delta’s IoT strategy and planning.

In this issue’s “Special Report”, we are pleased to receive the good news form BABG that Delta’s open architecture application for an IoT building management platform has successfully assisted the Science Research Center of Yili Group, the leading dairy business in Asia, to develop a cross-building and cross-system smart air conditioning control and management system. The system can support multiple communication protocols and networking technologies, and will benefit Yili greatly with 20% in savings on its construction costs.

In last year’s "Brand People", we interviewed the heads of Delta business units: BABG, EISBG, and EVSBG, to help our colleagues learn more about Delta's development direction and strategic plans. This year we will broaden the scope to include the heads of Delta Group/Subsidiaries. In this issue, we have a special interview with Hans-Joerg Schweinzer, CEO of Delta's subsidiary LOYTEC, John Nicholls, President of Delta Controls (DCI), and Mr. Owen Chen, Chairman of VIVOTEK. They will share their views on business opportunities and prospects for building automation, and their experiences since joining Delta.

With a widely recognized record for promoting green buildings, Delta recently receives NEC Partner of the Year 2018 award in environmental category in Japan. Delta adheres to be the “green enterprise with sustainable development ”and just won the honor of “Influential Enterprise of the Year” and "Admired Enterprise of the Year". Delta's NT Series industrial grade UPS provides electricity security in Ngari Prefecture hospital in Tibet. Together with LOYTEC, DCI, and VIVOTEK, Delta not only showcased its building automation solutions at AHR and Japan Build 2018, but it also assisted the Taichung World Flora Exposition with excellent lighting technology for creating different lighting ambiences at the Blossom Pavilion. More coverage is provided in this issue’s "Brand Circle".

This issue’s "Delta Green Life" will report on the negotiations outcome at the Climate Change Conference in Poland. Although a rulebook has been produced, it will still take each country a lot of effort to reach the goal of limiting global warming to 1.5°C. In "People and Products", EVSBG colleagues from Delta Pingjhen Plant share their passion, which you will not want to miss.

Brand Management Office

 Shan Shan Guo
Today’s building automation demands not only a good use of products, but also more attention to whether products and systems can meet the actual building management needs of owners, managers and users. At the Yili Group Food Research and Development Center project in Inner Mongolia, Delta applied the open architecture LOYTEC’s IoT building management platform to integrate cross-building and cross-system centralized management, and decentralized control of various electromechanical devices. In addition to supporting multiple communication protocols and IP networking technologies, Delta helped Yili save 20% on construction costs, built an infrastructure that is easy to interface with Yili’s conventional property management system, strengthened the system’s scalability, and reduced the owner’s system integration and construction costs. During the entire case, Delta succeeded in full communication and close cooperation with the owner.
Joining with a leading system integrator to create a smart HVAC control platform

As the leading brand in Asia’s dairy industry and one of the world’s top eight dairy enterprises, the Yili Group adopted high standards for the building solutions used for its research center and required just-in-time response from solution providers. After a long search, the Yili Group chose to partner with Delta to build its smart HVAC control platform.

The Yili Food Research and Development Center is located in the Yili Rudu Science and Technology Demonstration Park of the Jinshan Development Zone of Tumut Zuoqi, Hohhot City. The scope of the project includes four areas: a comprehensive management area, archive information center, restaurant building, and the Yili Financial Sharing Center, with a total construction area of 36,060 square meters. How to efficiently integrate different buildings and complex building subsystems in the park was the first and greatest challenge for the project.

Open architecture, cross-building, cross-system achieves a single platform with multi-integration

“Our vision is to integrate conventional property management functions to achieve platform-based, centralized management and decentralized control of mechanical and electrical equipment,” said Mr. Sun Zhipeng, an automatic control engineer of the Yili Group. In response to customer demand for an efficient integration platform, Delta offers the IoT Building Management Platform of LOYTEC Building Automation Solutions. With an open and all IP network controlled architecture, it not only supports multiple international standard communication protocols, but also possesses RS-485 (Modbus RTU/BACnet MS/TP), and can integrate with BACnet IP/Modbus TCP to quickly perform cross-system integration control. Through multiplexed integration and visualization of a single platform, Delta achieved cross-building, cross-system cooling and heat source system equipment supervision, and also optimized system operation.

Meeting multiple I/O point connection requirements without adding additional conversion equipment, saving at least 20% on cost

Zhao Guochao, product director of the Delta Greentech China Building Automation BU, pointed out: "In the initial stage of communication, we understand that customers have multipoint application requirements across buildings and systems, but we also hope to minimize the cost of building integration." Under such considerations, Delta uses the new LOYTEC LIOB-589 controller as the main core system product. Each controller is equipped with 26 I/O points to fully support multipoint applications. At the same time, it comes with a Modbus RTU communication interface, so there is no need to convert additional equipment. With careful calculation, it can save more than 20% on construction cost for the customer.

Such advantages not only greatly reduce repetitive procurement, but also decrease system integration time, network installation cost, and thus minimize costs. The concise structure facilitates the subsequent maintenance management operation of the administrator. IP networking also makes the system transmission faster and improves the response and connection speed of the system.
The Delta team observed that Hohhot City has a continental plateau climate, with obvious seasonal changes with large temperature differences. They made good use of the climate’s cold, fresh air to maintain the indoor air quality, temperature, and humidity at a certain standard. In addition, they provided special anti-freeze protection to prevent HVAC system’s water pipes from rupturing and to minimize risks to system operation. Visual thermal comfort indicators are also available indoors to ensure a comfortable and pleasant working environment.

LOYTEC smart HVAC control technology helps to improve the air conditioning unit control system, VRV multi-line group control system, heat exchanger unit control system, power distribution system, air supply and exhaust system, and others. The system can optimize the energy consumption of the central air conditioning system according to external climate changes. It automatically and immediately adjusts the load and uses the far-near field control method to extend the service life of the equipment and ensure the high performance equipment’s operation. It also achieves good energy-saving results with integrated metering that meets the requirements of the enterprise’s energy management and energy reporting.

Earning the customer’s trust, Delta continues to assist the Yili Group in building cutting-edge smart buildings

The implementation of this project has successfully won the Yili Group’s trust in Delta, which has since handed over other building projects to Delta Group for implementation and planning. Looking to the future, the Delta team will continue to understand the real needs of customers, as it assists Yili Group in building cutting-edge smart buildings with rapid yet careful service and professional technology, improving customer satisfaction, and maximizing the operation efficiency of system equipment. Delta strives to create the most energy-saving and comfortable working environments, while providing the blueprints for our customers’ smart buildings.
In 2018 "Brand People" interviewed Delta’s top managers in the fields of automation, infrastructure, and electric vehicles, to let our colleagues know more about our company’s development direction and strategy deployment. In this first issue of 2019, “Brand People” features interviews with the heads of Delta’s subsidiaries in the field of building automation, including Mr. John Nicholls, President of Delta Controls (DCI), Mr. Hans-Joerg Schweinzer, CEO of LOYTEC, and Mr. Owen Chen, Chairman & CEO of VIVOTEK. We asked them to share their insights into the business opportunities and future prospects for building automation in the era of the Internet of Things (IoT).
Building automation is a highly promising industry. It is in line with Delta’s core capabilities and mission to focus on environmental protection and energy conservation. In 2016, Delta acquired Delta Controls, LOYTEC and VIVOTEK, building automation and security surveillance companies in Canada, Austria and Taiwan respectively. Delta is counting on these three new subsidiaries to enhance its global building automation road map with their niche positions, product and technology advantages, and synergies in the IoT field.

“With the development of IoT, customers’ demand for building control is increasing day by day. DCI is deeply aware of the importance of technology integration. Since joining Delta Group in 2016, we have been taking Delta’s products and converting them into DCI intelligent controllers. This strategy adds a great deal of value to a Delta product, turning it from an autonomous machine into an integrated system component.” John Nicholls, president of DCI, mentioned that its products are used mainly in lighting, access control, air conditioning and other management areas of buildings. In addition to incorporating Delta’s Variable Frequency Drives into building automation solutions, DCI has recently integrated Delta’s products such as IP cameras, UPS, projectors, EV chargers and energy storage systems with DCI’s building controller to create new business opportunities and applications, and expanding the range of its services in the market.

As for DCI’s future development, John believes that “maintaining DCI’s leading technology and market acumen is the best way to ensure its advantages.” On the technical side, the newly released O3 Sensor Hub, for example, combines machine learning with multiple sensors for sound, temperature, light, occupancy, and heat into one unit. It has the greatest advantages in areas of the world that love to combine access control, lighting and temperature control into an integrated solution such as in Europe, South America and certain parts of Asia. On the business side, in addition to teaming up with Delta to drive the synergy of product promotion and expansion, DCI has found that it is necessary to respond to rapidly changing market demands and embrace different business models to gain a foothold in the highly competitive building automation market.
Today, the IoT architecture-based open building management platform is a mainstream trend, and LOYTEC is the technology leader in this field. Mr. Hans-Joerg Schweinzer, CEO of LOYTEC, said, "When LOYTEC was founded in 1999, its aim was to build a building automation solution that could integrate various open communication protocols." Since officially becoming a member of the Delta Group, LOYTEC has been combining Delta’s products with LOYTEC solutions to establish a cross-building, cross-system management platform. Introducing the platform into Delta’s own buildings, such as the Delta EMEA and the Delta Americas Headquarters have achieved excellent results. For example, the Delta EV charging system has been integrated into the LOYTEC building management platform to visualize system operation status and energy flow. The building management system also obtains information through the integration of the VIVOTEK surveillance system or dynamically control the lighting systems to improve the efficiency of energy conservation.

Hans mentioned that, "For LOYTEC’s development plan over the next few years, we will integrate various communication protocols to enable us to continuously expand the range of supporting building sensing devices by the building management system." The IoT is highly developed today and the application scenarios of various types for building control equipment are serially correlated. Lighting, air conditioning, energy consumption, and security control are closely related to each other. How to grasp trends, provide an open management platform, and meet the needs of users, are all key to the implementation of people-oriented environmental management.

LOYTEC takes the lead with its open platforms to gain opportunities for creating sophisticated applications

"VIVOTEK had cooperated with more than 183 authorized distributors in 116 countries to establish a leading brand in the global IP surveillance industry before joining the big Delta family," said VIVOTEK’s Chairman & CEO Owen Chen. He believes that with the rising trends of IoT, VIVOTEK aspires to become the "the Eye in IoT" and plans to deepen its integration with Delta and Delta Group’s subsidiaries in technology and business. Owen looks forward to elaborating synergies such as developing the Greater China business with Delta headquarters, going deep into the European market through LOYTEC, and collaborating with DCI to build the Americas market. Not only sharing information, but also shortening each other’s learning curves has allowed all parties to achieve substantial and significant results in expanding market share.

VIVOTEK encourages long-term partnerships to maximize the benefits of joint resources

"VIVOTEK President Owen Chen says that continuing the development of AI video technology with add-on value is the key to standing firm in the IoT era
Owen has clear plans and ideas for VIVOTEK’s future direction. He explained, “In response to Delta’s transition from a provider of components, products, and systems, to comprehensive solutions, we can gain business opportunities only if we strengthen each other’s technology and provide a one-stop service to the market.” VIVOTEK’s IP cameras now are seamlessly integrated with LOYTEC’s building control system for instant videos, and also supported by a video Plug-in Free function in DCI. During the process, it takes a lot of time and manpower to implement global communications and achieve technical integration. In addition, the integrated solutions were presented at each other’s booths at 17 international exhibitions last year, attracting new customers from different regions and providing more market information. They are looking forward to further cooperation in the near future.

The three subsidiaries have been deeply cultivating the market and expanding brand influence with their quality solutions

In terms of the market, the three subsidiaries originally played different roles in their professional fields. After joining Delta, they worked together to develop cooperation in R&D, product support, and business promotion. After more than two years of internal integration, they have been able to provide excellent solutions to customers, expand the market and their brand influence, and have won numerous building automation-related awards in China, the United Kingdom, the United States, and India. In addition to sharing common resources for reducing costs, they also own joint-channels to increase the efficacy of their global marketing, and targeting different vertical markets such as office buildings, hospitals, restaurants, education, retail, transportation, and others to build brand recognition and awareness. They also plan to use social media in the future for conducting brand communication.

To keep pace with the times, the three subsidiaries have been working together to build Delta intelligent buildings

“Our prospect is to fill the world with Delta buildings in the future,” said the three office heads with confidence. They uniformly agreed that they should cooperate fully with each other to jointly develop advanced building automation solutions based on IoT technology, and create synergies to develop sales channels. This will enable them to grasp more market opportunities for building and security control and create more interconnected intelligence applications, strengthening Delta’s position in the building automation market.
DCI has been part of the Delta organization for over two years. I have seen more and more Delta organizations starting to work together looking for synergies in sales, marketing, product development, and technology. We have been made to feel most welcome and have been wonderfully supported. We are building an innovation community at Delta!

VIVOTEK is entering its 19th year and still keeps its corporate mission consistent with Delta Group’s — pursuing continuous innovation and sustainable operation. "Opportunity favors the prepared mind". We have to continue to improve our capabilities to step out of the comfort zone for more opening-up patterns and find our foothold in the IoT era.

As one of the founders of LOYTEC, I was in the CEO position from day one. My work life changed multiple times and it has become very different today compared to the early years. Nevertheless, I love what I am doing. I believe in the future and love to push things in the right direction. I love to work with and encourage people, which has not changed since we joined Delta.
“IoT-based Smart Green Solutions to Nurture Energy Efficiency in Cities”
Delta corporate campaign communicates integrated IoT solutions

Text by Brand Management Office

Since announcing its organization restructuring in 2016, Delta has transformed itself from a supplier of components and systems into a provider of holistic solutions in three major fields: “Power Electronics,” “Automation,” and “Infrastructure.” In response to market demand, Delta has combined two key businesses, automation and infrastructure, based on “Power Electronics,” and has gradually integrated the IoT framework. Consequently, Delta is keeping ahead of the game in terms of technological transformation and road-mapping future markets.

In light of this development, Brand News Bi-Monthly is introducing our “IoT Smart Solutions” column in 2019, which will cover topics regarding Delta IoT, its energy-related product technologies, and application trends. This issue starts with the “IoT-based Smart Green Solutions” corporate campaign developed with the assistance of the Brand Management Office in 2018, which helps our colleagues better understand Delta’s strategic development and market planning.
“IoT-based Smart Green Solutions” is a corporate campaign developed by the Brand Management Office in 2018. The campaign focuses on the IoT framework, as well as specialization in energy management and efficiency improvement. Delta actively provides system solutions for IoT applications in key businesses such as smart buildings, smart manufacturing, energy infrastructure, and information & communication. The campaign communicates through promotional materials, solution proposals, animated videos, online marketing, visual design, and regional exhibition advertising for Delta’s booth. This helps communicate Delta’s brand value and core technology capabilities externally through a variety of channels.

Initially, the campaign exhibited “smart building solutions” and “micro-grid solutions” that conformed to the IoT framework. This idea was promoted at COMPUTEX TAIPEI 2018 based on Delta’s hybrid electric vehicle (EV) charging station incorporating shopping and leisure features. With “IoT-based Smart Green Solutions to Nurture Energy Efficiency in Cities” as the main theme, the Brand Management Office prepared a proposal for the exposition and combined it with demos and guided tours by the heads of business units, which received much positive feedback. The campaign also helped communicate Delta’s expertise in energy management and efficiency improvement and its achievements in interconnection in key market demand areas such as software and hardware integration, layout automation, and infrastructure.

Based on application scenarios covered in the proposal, we formulated a series of solution proposals consisting of Delta’s energy storage system, EV charging solutions, and building automation. Apart from emphasizing Delta’s transformation from a supplier of components/products/systems to a provider of holistic solutions, the proposal also communicated that each solution will play an indispensable role in constructing future sustainable cities.
Energy Storage Systems to Balance Renewable Energy in Cities

This solution proposal describes the combination of Delta’s energy storage system with renewable energy. Its goals are to provide energy supply diversity using green energy with stable output and adjustment on demand, and to build a regional micro-grid that is self-sufficient or that merges with the current power grid, in an effort to achieve smart energy interconnection. In recent years, Delta has been actively developing energy storage systems, such as at the Taiwan Power Research Institute (Shulin Site) and Delta Ako Energy Park, which optimizes the power load dispatch of power grid or renewable energy power stations. Delta also collaborated with Ørsted last year to set up the Energy Storage Research Center at National Changhua University of Education to promote future development through actual applications.
Bi-directional EV Chargers Sharing Energy on Demand

This solution proposal discusses the high universality of Delta’s EV charging solutions, including the DC Fast Charger, AC Chargers, and the Charging Station Management System. Delta’s V2H/V2G bidirectional chargers can connect with home appliances or electric power systems to enable EVs to store energy and share energy by discharging on demand. Delta’s has years of experience in the EV market and has launched related products such as automotive parts, charging piles, to charging management systems. These products, together with the energy storage system and energy management system, can be combined with a smart grid to share energy on demand.
Building Automation System Integration to Enhance Energy Efficiency

This solution proposal explains Delta’s building automation solution and the IoT framework, which covers sensing, controlling, and management platforms. It integrates lighting, air conditioning, and surveillance to enhance energy efficiency and comfort.

Building Automation System Integration to Enhance Energy Efficiency
Delta Building Automation Solution Proposal

Building Automation System Integration to Enhance Energy Efficiency
This solution proposal explains Delta’s building automation solution and the IoT framework, which covers sensing, controlling, and management platform. This solution fully integrates facilities such as lighting, air conditioning, and security monitoring, creating smart buildings for homes and offices. Delta has worked in this market for years, and quality companies, such as LOYTEC, Delta Controls, and VIVOTEK, with their well-developed technologies and comprehensive sales channels, have joined Delta Group. This has allowed Delta to acquire key fundamental automation technologies for integrating air conditioning, lighting controls, and security monitoring systems. Together with its own practical experience in green buildings and monitoring energy consumption, Delta is further laying a solid foundation for expanding smart building solutions.
With the success of its animated video on Smart Manufacturing in 2017, the Brand Management Office launched an animated video about Energy Infrastructure in 2018. This video used 3D modeling to communicate Delta’s advanced technologies for optimal applications in power generation, power transmission, power distribution, and energy storage. It will be used for promotion in future business visits or expos.

To strengthen its online marketing, Delta has set “互聯生智” (IoT-based Smart Green Solutions in Chinese) as a keyword and hash-tagged the phrase for subsequent social media promotion and enhancing Delta’s brand image. The Brand Management Office is also working with the legal department to register this slogan as a trademark in China and Taiwan. From this year on, the Brand Management Office will be focusing on key business campaigns, such as for EV and power electronics. More information will be available soon.
While addressing the audience, Mrs. Shan-Shan Guo said, “The main benefits of distributed energy resources include demand response, peak shaving and load shifting. Delta’s smart green solutions cover energy storage, building energy management and vehicle-to-home/vehicle-to-grid (V2H/V2G) EV charging that together can enable distributed energy applications to not only enhance the energy resilience of cities, but also to contribute to the net-zero emissions by 2055 target indicated in the latest IPCC Report.”

On December 10, as part of Delta’s events parallel to the 2018 UN Climate Change Conference (COP24), Delta held a Seminar Event in Krakow for key stakeholders, an audience that included more than 50 local customers, channel partners and media. Delta’s senior vice-president and general manager of ICTBG, Mr. Victor Cheng; and chief brand officer and vice Chairman of Delta Electronics Foundation, Mrs. Shan-Shan Guo, joined our Delta Poland colleagues to share our endeavors in fostering sustainable development worldwide.

In his keynote presentation, Victor Cheng highlighted Delta’s strengthened capabilities in regards to the integration of IoT-based smart green solutions that are cementing the pillars of sustainable cities, such as smart factories, intelligent green buildings, microgrid-supported EV charging infrastructure and eco-friendly data centers.

Shan-Shan Guo elaborated on Delta’s initiatives to become a world-class corporate citizen, such as our participation in the COP conferences since 2007, including this year’s COP24 here in Katowice, Poland. At COP24, Delta emphasized how distributed energy sources can enhance energy resilience. Shan-Shan ended her presentation by echoing the heartening thoughts of Polish poet Wislawa Szymborska“We should have started from this: the sky”, which remind us all of how essential is protecting our planet.

Delta hosts official side event and seminar at COP24

Text by Corporate Communications

Delta, a global provider of power and thermal management solutions, organized an official side event today, at the Katowice COP24 Climate Change Conference in Poland, to reflect on the role of distributed energy resources in advancing the energy resilience of cities. Delta’s perspective as a technology provider was complemented in the event by the contributions of the C40 Cities Climate Leadership Group, the U.S. Green Building Council (USGBC), the American Council for an Energy-Efficient Economy (ACEEE) and the Japan-based Renewable Energy Institute (REI). Vice Chairman of the Delta Electronics Foundation, Mrs. Shan-Shan Guo, highlighted practical cases in which Delta has enabled distributed energy solutions capable of sustaining energy resilience. More than a hundred influential opinion leaders and policy makers from around the world offered valuable views during the event.
Delta receives NEC Partner of the Year 2018 Award in environmental category

Text by Corporate Communications

Delta’s long-term focus on climate change by enabling environmental protection and energy conservation have once again been recognized by customers. This week, NEC Corporation (hereinafter referred to as NEC) awarded NEC Partner of the Year 2018 award in its new category of environmental to Delta in its annual supplier meeting in Tokyo, Japan. NEC recognized Delta’s contribution to reduce CO2 emissions from NEC’s supply chain by promoting environmental management with outstanding leadership acumen, increasing solar power generation year by year. Mr. Takashi Niino, President and CEO of NEC, presented the award to Yancey Hai, chairman of Delta Electronics.

It is recognized Delta’s management team has been allocating great importance to climate change and environmental protection, independently setting energy conservation and carbon reduction targets, and proactively participating in energy conservation events. For instance, Delta is continuously nurturing the use of renewable energy and decentralized energy generation with its PV inverter and energy storage technologies. It has also adopted advanced sustainability methods, such as the Science-Based Targets initiative (SBTi) and Internal Carbon Pricing (ICP), to enhance energy conservation and carbon reduction activities in its own operations. Moreover, Delta is actively expanding solar power generation in its major sites around the globe. In 2017, these systems produced a total of 14.3 million kWh of green electricity, which is equivalent to a reduction of 11,270 metric tons of CO2 emissions.

Delta's chairman, Mr. Yancey Hai, said, “NEC is a long-term partner of Delta and a world-class company actively promoting environmental protection and corporate social responsibility (CSR) in Japan and abroad. This prestigious honor from our steadfast customer recognizes Delta's commitment to environmental protection and energy conservation, as well as our CSR best practices. Delta will continue to enable lower carbon emissions through superior energy efficiency by adhering to its corporate mission, "To provide innovative, clean and energy-efficient solutions for a better tomorrow". By working side-by-side with stakeholders that, like NEC, share our same values, we will achieve together mankind's goal of containing further global warming within 2°C.”

Fostering social value is a pillar of NEC’s long-term corporate sustainable growth strategy. Furthermore, NEC encourages suppliers to establish long-term SBTs and use renewable energy to move towards zero carbon emissions, while environmental performance surveys for key suppliers are conducted. The NEC Partner of the Year 2018 Environmental Category Award aims to strengthen dialogue and mutual cooperation between stakeholders, pursue sustainable development, and reduce the risks caused by climate change to the supply chain.

Mr. Takashi Niino, President and CEO of NEC (right), presented the “Partner of the Year 2018 Award in Environmental Category” to Mr. Yancey Hai, chairman of Delta Electronics.
“Refinement, conciseness, value promulgation.” In order to convey the leadership’s ideas to our colleagues, and to communicate the direction and strategies of organizational transformation, the HR Department invited the CEO Mr. Ping Cheng, COO Mr. Simon Chang, and CBO Ms. Shan-Shan Guo as speakers of the 2018 Delta Talk. In their succinct talks, the three speakers illustrated Delta’s vision of transforming into a solution business, and analyzed swiftly and clearly the corporation’s path forward. The talks were filmed and will be distributed in multiple languages to Delta’s global offices in order to foster mutual internal communication and transformation thinking.

This was the second Delta Talk since 2016. Many senior managers were live attendees, among whom the founder Bruce Cheng, business managers, functional managers, and operational staff. The fact that all available seats were signed up within five minutes further indicates the internal attraction and acclaim this event has garnered. According to the results of the 2018 Global Employee Engagement Survey, senior managers’ proactive communication and sharing in various forms in the past two years have resulted in improved scores in the “effectiveness of senior leadership” and “understanding company’s future direction” categories; Delta Talk indeed strengthens colleagues’ understanding of the company’s strategic direction.

During the talks, the three speakers shared not only their wisdom on management, but lively examples and touching stories. The online premiere time of Delta Talk videos will be announced. Stay tuned!
Delta BA team casts its glamour at Blossom Pavilion of Taichung World Flora Exposition

Text by BABG

Taichung World Flora Exposition opened grandly at the end of last year. In Houli Expo Site, the Blossom Pavilion is the most essential and beautiful exhibition hall. Delta building automation project executing team is in charge of the Pavilion’s lamp installation, detailed light adjustment and computer programming of lighting atmosphere, allowing the designed curved exterior wall to perfectly display the elegant image of slow-flowing light and shadow.

Blossom Pavilion is a permanent exhibition hall with a breakthrough in architecture. The curved exterior wall is a huge design challenge. Its shape resembles Phalaenopsis or a “dancing girl.” When the lighting design of “Blossom Pavilion” was tested, it showed varying lighting feels and atmospheres from the evening to the night, attracting numerous people to feast their eyes on a fine spectacle before others. This beautiful lighting show was carried out by Delta building automation project executing team who overcame all kinds of difficulties to install 560 LED lamps with detailed adjustments within three months, displaying the flowing light and shadow interplay required by the designer with the refined variations of brightness and darkness. The Delta project team who was in charge of the exterior wall lamp installation recalled that the most challenging task came from the circular metal curtain grille of the exterior wall, because it is easy to refract or reflect the bright points when adjusting the light. The staff had to adjust lamps one by one in order to achieve the breeze-like flowing effect that the designer demanded.

The light and shadow projections of the Blossom Pavilion change with the grilles covering these two spheres to show dynamic curved 3D lighting. Two spherical exhibition venues form the symbol of infinity, with the left side being white and the right side gold to represent the endless and perpetual cycle of life and nature. Colleagues can go to Taichung to appreciate the results of the efforts of Delta’s building automation project executing team. You will see how the elegant image of the wind blowing petals can be created by slow-flowing light formed by the light projected on the big and small spherical external grilles that play with the indoor light in the nighttime Blossom Pavilion.

Vivitek’s LauncherPlus helps meetingparticipants connect effortlessly at Hyatt Place Amsterdam Airport

Text by EMEA

Exceptional service, attention to detail and the ability to meet the demands of guests, are the hallmarks of an outstanding hotel. These are the qualities that the four star Hyatt Place Amsterdam Airport guests have been enjoying since it opened five years ago. Strategically located near Amsterdam’s Metropolitan Area and Amsterdam Schiphol Airport, it has become a popular venue that welcomes up to 125,000 business and leisure guests a year across its 330 guest rooms and six meeting rooms.

Today, the hotel is doing even more to deliver on its promise to create a ‘seamless guest experience’, thanks to the deployment of Vivitek’s LauncherPlus, which makes technology collaboration in the workplace or classroom a reality. LauncherPlus allows for distributed display and control between PC, Mac and tablet devices for a completely interactive presentation and collaboration environment. The fully wireless communication enables content sharing across multiple devices and is compatible with Windows, Mac OS, iOS and Android operating systems.

Given the value that it offers, looking ahead it’s unsurprising that the Hyatt Place Amsterdam Airport plans to extend its LauncherPlus deployment to additional meeting rooms, with the prospect of it taking off across further Hyatt Hotel locations in the future.
Delta’s NT Series UPS protects people’s life in high-altitudinal and cold regions

Text by DGC

Recently, Delta’s NT Series industrial grade UPS was selected by a hospital in Ngari Prefecture in Tibet to ensure the stable and reliable system of continuous power supply for its important medical equipment and core infrastructure. The hospital is located at an altitude of 4,500 meters in the Qinghai-Tibet Plateau. Low temperatures and low oxygen levels lead to a greater demand for UPS equipment. Delta’s NT Series UPS has excellent technical performance and a great deal of application experience in high-altitudinal and cold regions. When the power supply system becomes problematic, the NT Series can provide reliable emergency power for medical equipment such as computed tomography (CT) scanners and X-rays to ensure patients’ safety.

For this, Delta offers two NT series UPS products with different powers: 120 kVA and 200 kVA. As an industrial grade UPS, the input/output rated voltage of three-phase NT series UPS can be customized for various application environments. Its N+X parallel redundancy or system expansion can ensure the power stability and reliability at critical loads. Even under 100% unbalanced load conditions, the NT Series UPS can continue to provide protection for machine operation and save operating costs. With the design of ultra-high reliability and high density, it is an ideal choice to guarantee power safety in cold and high-altitudinal areas.

Delta’s containerized Data Center Solutions support Campana’s submarine cable landing station in Myanmar

Text by MCIS

Delta announced it has enabled an energy-efficient 200kW containerized data center solution for the Singapore-based Campana Group. The modular and scalable properties of Delta’s Containerized Data Center Solution were integral for the project to be completed in just 50 days, from shipment (originating at Delta’s production base in Wujiang, China) to full installation of coupled containers in Yangon, Myanmar. This data center features superior energy efficiency with annual average PUE* below 1.43, thus, achieving gold level of the Green Grid standard. Designed for the SIGMAR (Singapore-Myanmar) International Submarine Cable Project, the Campana data center is the largest high-speed data center connecting Singapore and Myanmar, and shall benefit end consumers in Southeast Asia with an enriched digital life.

"It’s a pleasure to partner with Campana, who aims to empower digitalization in Southeast Asia, and together we have reached such satisfactory results. Delta’s prefabricated data center infrastructure solutions not only enable fast deployment and construction as demanded, but also come with high reliability and integration to fit the full range of application environments present in the edge computing field. Moreover, we assist customers’ in penetrating more network connectivity service markets," Dr. Charles Tsai, general manager of Delta’s Mission Critical Infrastructure Solutions Business Unit, added.

*PUE: Power Usage Effectiveness
Delta builds fast, stable system solutions for palletizing robots

Text by DGC

Delta’s palletizing robotic system solutions support a variety of robot types, including three commonly used in the palletizing industry: TypeA articulated (absolute), TypeB linked (absolute), TypeC screwed (absolute and incremental). They include guided situation process settings, which can be quickly switched according to the requirements of various industrial environments, supporting a wide array of production lines such as one-to-one (from one line onto one pallet), multi-pallet (from one line onto two pallets), multi-line (from two lines onto one or two pallets).

The Delta palletizing robotic system includes the handheld human-machine interface DOP-H series, which is characterized by its compact structure, responsiveness, stability, sturdiness, and low power consumption. The handheld mode can be equipped with hardware traditionally with no room for display installation to communicate, which is suitable for integrating with multiple devices that require individual adjustments and settings, as well as automatic devices that involve confirmation and adjustments of actual operation positions.

With regard to programming, modifying the system solution only requires setting the corresponding parameters of each command, which greatly reduces the programming time. For example, since the program path is unchanged, setting two sets of processes can be done by setting the process numbers with the same set of programs.

A food and beverage manufacturer adopted the Delta PAC controller and the servo drive system ASDA-A2-F series, in combination with the DOP-H handheld palletizing machine solution for the stacking of bottled beverages. The running speed and stability of the machines both achieved the desired effect.

Delta unveils new building control technologies at 2019 AHR

Text by BABG

Delta exhibited the latest products of its two building control brands, Delta Controls and LOYTEC, at the 2019 AHR Expo in Atlanta, January 14th to 16th. The AHR Expo is the leading HVAC show in North America.

Right before the show, LOYTEC’s latest LIOB-585 I/O controller won the ControlTrends Award as the best plant/equipment controller of the year. LOYTEC, which is well known for its support of open multi-protocols, was also the first to launch a complete IoT interface this year. At the show LOYTEC demonstrated the connection of a wide variety of building equipment such as air conditioner inverters, lighting fixtures, electric vehicle chargers, video surveillance IP camera, infinite smart speakers, and projector, and others. LOYTEC declared that any App-controlled device can be included in the LOYTEC building control system.

Delta Controls’ latest room control system, O3 Sensor Hub, was selected as a finalist for the AHR Innovation Awards. The O3 series multi-function sensor can sense light, heat, humidity, carbon dioxide, and sound in the environment, and it also has the ability to calculate and vocalize. With a flashing light ring that changes according to conditions, it interacts continually with nearby users in line with the latest building control trends for putting the users’ experience first.

On the first day of the exhibition, Robert Hemmerdinger, vice president of the Sales and Marketing Department at Delta Controls, and Hans-Joerg Schweinzer, CEO of LOYTEC, participated in a Cybersecurity Summit together with international BACnet President Andy McMillan and discussed the emerging challenges and solutions for building control on its way from OT to IT.
Delta showcases smart building solutions at Japan Build 2018

Text by BABG

Delta showcased the smart building solutions based on the all IP-IoT structure for building management and control platform by its subsidiary LOYTEC at the “Japan Build 2018-3rd Smart Building EXPO.” Smart lighting control, smart surveillance, energy management, indoor environmental quality service, and EV charger systems are all integrated with IoT technology to improve building operation efficiency, create quality building space, and promote the development of the building automation market in Japan.

The seminar “The Open BA System for IoT Integration” was held onsite by LOYTEC CEO Hans-Jörg Schweinzer, who shared personally new generation open building automation solutions and innovative applications in response to IoT trends. The seminar was packed with Japan’s smart building equipment manufacturers who are actively looking for IoT solutions and professionals from fields such as property managements. It was stressed in the seminar that the multiplex integration platform has become a trend of modern buildings. Subjects such as using IoT technology and the platform to quickly achieve the seamless integration and efficient operation of building facilities in the open building automation system and applications of situation, key technologies and features have been discussed among participants enthusiastically.

The demo of the successful case in Delta Ako Energy Park was also very eye-catching at the venue. Delta, which has put a lot of efforts in promoting building environmental protection and energy conservation, has successfully achieved up to 33.8% energy conservation in its Ako Energy Park by using LOYTEC building automation solutions and obtained LEED CI Gold Certification with full marks on energy category. It has become the most persuasive example in the Japanese market, which acquires a lot of inquiries.

LOYTEC’s building management platform integrates various sub-systems such as lighting, air conditioning and security, and further provides applications that meet different environmental requirements with digital control and big data analysis. Such as the DALI protocol, compliant HBD series LED high-bay lights in combination with wireless light control for warehouses, or the interlocked LOYTEC Automation Servers, area controllers, and VIVOTEK 3D People Counting cameras for environmental control and data analysis of customer purchases at retail stores.
The third Southern Weekly Annual Ceremony was held in Beijing. This event's topic is "Change and Chance", and aims to build a platform to exchange ideas. Upholding the principle of "eco-friendly and energy-efficient" green development, in recent years Delta has been actively investing in fields such as automation and infrastructures to create products and solutions related to intelligent buildings and electric vehicles. Furthermore, Delta echoes the global initiative, EV100, to accelerate the transition to electric vehicles and has become the world's first member to provide energy infrastructure for electric vehicles. As a pioneer in its industry, Delta leads a green wave and has actively contributed to the progress of the industry. Therefore, Delta was awarded 2018 "The Most Influential Enterprise of the Year."

Delta's spokesperson and Assistant Vice President of the Corporate Sustainable Development, Mr. Jesse Chou, received the award on behalf of Delta and was invited to give a talk on "Delta's green influence." He pointed out that Delta, as a citizen enterprise, has long paid great attention to climate change, actively participated in international energy-saving initiatives and activities, and taken initiatives in reducing carbon emissions. Delta implements energy-saving programs in its own factories, buildings and data centers to reduce the electricity intensity. Furthermore, Delta set its Science Based Targets (SBT) to reduce carbon emissions in 2017, which aim to reduce its carbon intensity by 56.6% in 2025. Delta becomes the first in both China and Taiwan and the 87th enterprise in the world to comply with standards set by the Science Based Targets initiative, setting an example for the industry. In addition, Delta, as a pioneer in promoting green buildings, has been building environmentally-friendly plants and offices and donating to green schools since 2006. Delta has 27 green buildings world-wide today and shares its experiences of energy-saving buildings with the public in a "considerate" manner to contribute to the ideal of building low-carbon emission cities.

Delta wins "2017-2018 The Most Respected Companies of China" award

Delta won "2017-2018 The Most Respected Companies of China" award in the "2017-2018 Annual Observer's Convention and Awards Ceremony for the Most Respected Companies of China Awards" held by the Economic Observer.

Delta’s spokesperson and Assistant Vice President of corporate sustainable development, Mr. Jesse Chou, received the award on behalf of Delta and shared Delta’s experience by talking about "Green enterprise, sustainable developments." He pointed out that Delta believed in becoming a sustainable enterprise. Only by valuing the corporate social responsibilities as it is pursuing growth in revenue can Delta achieve long-term stability. Delta plays its part as a world-class citizen enterprise by actively participating in international carbon reduction initiatives. Delta has been taking part in the UN Climate Change Conference for the 12 years. Furthermore, this year, Delta invited internationally prestigious think tanks to hold Sustainable Innovation Forum (SIF), an official side event of COP 24 (Poland) to exchange views with leaders around the globe on how innovative technologies can bring sustainable development. In response to the self-regulating initiative of the "We Mean Business coalition," Delta took the lead in setting its science based targets (SBT) to reduce carbon emissions, which aim to reduce the carbon intensity by 56.6% by 2025. Delta has met the standards set by the Science Based Targets initiative, becoming the first in both China and Taiwan and the 87th enterprise in the world.
Delta awards the honor of "Ten Years Responsibility and Top Ten Foreign Enterprises" in China
Text by DGC

The ceremony of the "Blue Book of Corporate Social Responsibility in China (2018)" organized by institutions such as the Corporate Social Responsibility Research Center of the Academic Division of Economics of the Chinese Academy of Social Sciences was held at the Beijing International Hotel. As Delta has long combined its business mission, "To provide innovative, clean and energy-efficient solutions for a better tomorrow," with the practice of corporate social responsibility, it was awarded the honor of "Ten Years Responsibility and Top Ten Foreign Enterprises" and ranked 5th in the "Top 100 Foreign-capital Enterprises of Social Responsibility Development Index in China". It also ranked 23rd among enterprises including central, private and foreign enterprises in the "Top 300 Chinese enterprises of Social Responsibility Development Index."

Delta spokesperson and the Assistant Vice President of Corporate Sustainable Development, Mr. Jesse Chou, received the award on behalf of Delta and pointed out that Delta has taken the lead in setting its Science Based Targets (SBT) to reduce carbon emissions, which aim to reduce carbon intensity by 56.6% in 2025. Delta is the first company in Taiwan and the 87th company in the world to have passed the compliance review of the Science Based Targets initiative. In addition, Delta values the communication with stakeholders and has released the global CSR report every year since 2005. Furthermore, it has released the "Delta's Corporate Social Responsibility Report in China" every year from 2014 and been awarded the Five Star Rating by the Chinese Academy of Social Sciences for two consecutive years. In the future, Delta will continue to advance towards the goal of becoming a global citizen enterprise.

Delta wins three Grand Awards from “2018 China IntelligentBuilding Brand Awards”
Text by DGC

The results of “China Intelligent Building Brand Awards” were announced, and Delta won 3 grand awards with its excellent market performance in 2018. In particular, LOYTEC and Delta Controls, two building control subsidiaries of Delta, were both awarded the "2018 TOP 10 Building Automation Brands," highlighting Delta’s forte in building automation. Additionally, Delta was selected as one of the 2018 TOP 10 Intelligent Lighting System Brands with its outstanding lighting capabilities.

Mr. Gu Yifeng, Director of the Intelligent Building Business Department at DGC, states that, by integrating businesses of Delta’s subsidiaries—LOYTEC, Delta Controls, Vivotek, Delta Lighting, etc.—Delta was able to build an IoT-based smart building management platform that provides clients with integrated solutions to and services for integration of systems such as HVAC control, lighting controls, area automation, infrastructure integration, smart security monitoring, access control, indoor environmental quality, and green building consulting services. Furthermore, Delta co-hosted the Smart Lighting Control Application and Innovation Forum in early November with the Digital Illumination Interface Alliance (DiIA), the world’s major organization for technical specifications. Numerous success examples demonstrate that LOYTEC’s smart lighting solutions can be applied to high energy efficiency, constant environmental light control, control methods, special effects lighting, flexibility of lighting selections, automation of scene scheduling, etc. In addition to integrating with standard open protocols such as DALI, BACnet, LonMark, OPC, EnOcean, and SMI, it can be extended to BA systems or connected to other manufacturers’ systems, creating different smart lighting design experiences for users.
The Chinese Association of Automation revealed the results of its 2018 awards selection. With its outstanding innovative abilities and advanced innovative mechanisms, Delta won the “Chinese Association of Automation Enterprise Innovative Award” and “Chinese Association of Automation Intelligent System Innovative Solutions Award.” The “Energy Management Solutions for Brilliance Auto Welding Shop,” which Delta customized for its client, stood out in the completion to win the grand award.

Delta has established a diverse innovative mechanism and cultivated an in-depth innovative culture to promote technology innovation. In 2017, Delta employees and teams around the globe proposed 35 excellent innovative projects, which contributed in terms of techniques, products, process improvements and new visionary models. In addition, Delta actively promotes technical innovations, establishing laboratories in its Wujiang Production Base on various fields such as soldering, failure analysis, quality engineering and environment-related substance analysis, and collaborating with other organizations and enterprises to realize the technological innovation and perfection and to be applied in the fields of big data, education and medical care.

In response to Brilliance Auto’s need for energy control, besides, Delta provided its welding shop with a reliable power distribution system solution for energy management, which enables data acquisition, wireless connection and technical support of control. The system will help to monitor and analyze the data of the entire welding shop and three energy resources in the main working areas, namely water, electricity and compressed air, and then provide basis for decision-making. This project has thus earned Delta the “Intelligent System Innovative Solutions Award”.

Delta PreciGen Laboratories BD devoted to research and development of precision medicine. With the advanced knowledge and techniques from Delta Research Center, we developed this automatic nucleic acid test system. One of the advantages of this system is high sensitivity which offers immediate test and precise test for users. Moreover, it helps to simplify the test procedures and provides better medical service to doctors and patients. We are honored to win the most important award in Taiwan Bio-medical field and to have Chairman Yancey Hai attend the awarding ceremony.

Automatic Nucleic Acid Test System integrates nucleic acid test knowledge, microfluidic technology, feeble optical signal detection technology, thermal control technology and outstanding mechanical design. With our embedded instructional video, medical professionals can quickly learn how to operate this device. This sample-to-answer device can help medical professionals receive precise detection results of 23 pathogens/gene sequences within the time span of 50 to 90 minutes in a single run. This feature can fulfill what is required for disease control: timeliness and on-site diagnostics. This system can bring benefits for oncology, preventive health care and food safety fields.
Along with National Taiwan University (NTU), Delta held the “Result Presentation for Delta-NTU Industry-University Cooperative Research Project”, demonstrating the progress for five projects in the areas such as machine vision, semantic comprehension, indoor positioning and predictive maintenance. With Delta’s practical experience in the industry and the rich research capacity from NTU, we created new value and economic benefits for AI, producing meaningful and globally competitive research results.

During the presentation, Dr. Thomas Li, Delta’s CTO, emphasized that the project has obtained good research results after one year of hard work. In the future, the project will focus on the establishment and verification of an actual system, realizing the translation research results. This is an excellent demonstration of Delta’s vision of having an open, innovative, cooperative system that accelerates technology development while creating an all-win scenario.

Professor Wu, Jia-Ling, the chief investigator of the project also stated that NTU has always been focusing on actively implementing pilots in academia, leading research on practical technology and nurturing the research and development potential for enterprises. This allows NTU to nurture talents, conduct research, train future leaders and provide research data for both the academia and the industry. In the future, it is believed that with further collaboration and cooperation with the industry, we can create a new era of smart manufacturing, benefiting everyone!

On top of presenting the new research results, Delta Research Center has also introduced the new resources from the enterprise, namely Artificial Intelligence Center of Excellence (AI CoE) and Cyber-Physical Systems Security Solution & Service Center (CPSS3C), to provide a more diversified and comprehensive platform for the collaboration, accelerating the development of research results into solutions, and invite more talents from academia to join the industry of AI application.

In addition, in order to encourage outstanding teachers and students, Delta AI CoE presented outstanding research awards to Professor Tsai, Hsin-mu and Ms. Hsu, Zong-Yuan to commemorate them for their works in the application of AI in fields like visible light indoor positioning technology and reading comprehension technology in deep learning, in the hope that this collaboration will create a deeper impact on the industry and society.
Delta Electronics (Thailand) PCL. (Delta Electronics currently holds 20.93% ownership in DET) received the Stock Exchange of Thailand (SET) Outstanding Sustainability Award and the Thailand Sustainability Investment (THSI) 2018 Award at the SET Sustainability Awards 2018. Dr. Chaiyawat Wibulswasdi, SET Chairman of the Board of Governors, presented the Outstanding Sustainability Award to Mr. Anusorn Muttaraid, Delta Executive Director, and Dr. Pakorn Peetathawatchai. SET President presented the THSI 2018 Award to Mr. K.K. Chong, Senior Director of Sustainability Development, at the annual awards ceremony event held at the SET Conference Hall.

This year Delta is among 15 SET-listed companies to receive the Outstanding Sustainability Award and is in the category of companies with a market capitalization between 30,000-100 billion Baht. The award selection process leverages the SET’s sustainability assessment system to provide a reliable reference for investors seeking long-term returns from companies with strong Sustainable Development (SD) practices.

This is the fourth year for Delta to receive the THSI Award, which recognizes organizations with excellent stock performance and exemplary business practices based on the key SD principles including environmental, social and governance (ESG) aspects.

DET wins Outstanding Sustainability Award and THSI Award at SET Sustainability Awards 2018

Text by DET

Mr. Anusorn Muttaraid (left), Delta Executive Director, with Outstanding Sustainability Award and Mr. K.K. Chong (right), Senior Director of Sustainability Development, with THSI 2018 Award
Focusing on dreams and working earnestly to achieve them Delta Pingjhen Plant

I joined Delta in 2017, when EVSBG-TIBU was still in the early stage of its establishment. I had never been in such a driven team and a diverse workplace before. My colleagues come from different countries or regions: Shanghai, India, the United States, Thailand, Europe, Japan, and Taiwan. Working as a project manager, I believe this is an exceptional environment, as the communication with my teammates is more challenging so that the sense of accomplishment is far higher whenever we achieve a goal. Our project is based on the traction inverter for electric vehicles, which is the core component, also known as the brain of a car. The high-voltage direct current from the battery is converted into three-phase AC drive motors to move the car. The project is complex because it offers something more than a single component. We must look at all project activities from a systematic perspective. In addition to devoting greater efforts into project management, I have to be in charge of the division of labor of each team. Fortunately, my engineering background enables me to be efficient in the task. It is not difficult for three people to reach a consensus, but it is not easy for three teams to agree with things unanimously and win. My team is always active, full of energy and quick to achieve any job. I like the feeling that everyone is making himself/herself work harder towards the common goal.
After moving to the Pingjhen Plant in December, my mood is expansive while working in the large office space surrounded by pleasant mountains and waters. Recently, the laboratories are also getting ready one after another so that the competitiveness of my unit will be greatly improved.

Although we spend a lot of time working with others in the workplace, it takes only oneself to enjoy leisure activities such as running, cycling and working out for fitness. My favorite activity is working out for fitness because it is rather convenient to make use of the equipment and space provided by the Company. I also like to cook healthy fitness meals for myself, such as boiled chicken and oil-free vegetables. Although it is prepared for growing muscles, the meals accidentally make my digestive system healthier as well. A stronger body will keep away a lot of sports injuries and make it easier to recover after running and cycling. During workout, we are required to complete every movement by feeling the interlocking effect of muscles, and matching with the rhythm of our breathing in order to achieve high efficiency. In addition to be physically strong, we can also strengthen our mentality. I was easily agitated when dealing with things in the past, but workout and exercise has made a significant improvement in my judgment and decision-making.

Even though working out is something personal, it unexpectedly drives the workout atmosphere within my unit. After getting off work, the number of colleagues whom exercise together, and discuss how to improve their movements and their purposes has increased every day. We have recently been working on our core muscles together. In the future, we also expect to grow stronger physically and mentally so that EVSBG will become the strongest prop of Delta.
This is the ninth year since I became a member of Delta. I joined the team of electrical vehicle drive from the beginning. Later, due to the Company’s operational planning, the drive development was suspended in 2013. Afterwards, I was still involved in vehicle-related product development, such as motor drive for electric motorcycles and stackers, so that I continued to accumulate experiences and R&D capabilities. In 2017, in response to the changes in the industry and the needs of customers, the Company decided to resume the development of motor drives for electric vehicles. When hearing this news, I rejoined the EVSBG at the end of 2017 to continue my contribution to this field.

At present, the development of electric vehicle-related products in Taiwan is the responsibility of the EVSBG, and its core component, "motor drive", belongs to the scope of the TIBU. The current trend in the industry is system integration. The subsystems such as MCU, DCDC, Onboard Charger, APM and Motor are integrated and reduced to become a complete power system. Therefore, R&D is no longer the business of any single unit, and shall be integrated among various units to be able compete against international rivals. Besides coordinating functions of my unit with those of other units in normal time, it is necessary to communicate and collaborate with the teams in the United States, China, Thailand, and other regions.

In the past year at the TIBU, I have accumulated and strengthened my professional capability, language proficiency, practical experience, and communication and coordination ability due to the new challenges brought about by differences in environment and development projects. In addition, I have made friends with many good partners. We share common goals, assist each other in performing the work and exchange experiences and views in life.

My interest is riding a motorcycle. Riding a heavy motorcycle has been my dream since I was a child. The mechanical beauty and the sound of the growling engine have always been tugging at my heartstrings. Someone says that: "Four wheels move the body, but two wheels move the soul." I like to ride my heavy motorcycle outdoors to feel the air and sunshine in the suburbs on holiday morning. When I ride, the beautiful mountains and forests of Taiwan pass me, effectively taking my stress away. I have even made friends with a group of like-minded heavy motorcycle fellows. We meet regularly to chat on motorcycles and about life in general. We all come from various walks of life so that we have different perspectives on social issues. Here I have to remind everyone that: "Ride fairly, not recklessly. Roads are for everyone, not yours to race." Observe the traffic rules and enjoy every ride in safety!
Delta Electronics introduces the CliQ VA series of DIN rail power supply with integrated LCD display. The CliQ VA series display module offers three key functionalities.

1. **Display Mode** will scroll through values such as output voltage, output current, cap life expectancy, (power supply unit) PSU temperature etc.
2. **Maintenance Alarm Setting** allows the user to set a pre-determined maintenance alarm before the power supply reaches the end of its expected cap life.
3. **Error Mode** will display the type of error if the PSU enters and recover from OVP, OLP, SCP or OTP mode. This enables the user to quickly identify the cause of any abnormalities.

The CliQ VA series offer 24V output in three different power ratings: 120W (DRV-24V120W1PN), 240W (DRV-24V240W1PN) and 480W (DRV-24V480W1PN). They have a wide operating temperature range of -25°C to +70°C, providing full power up to +60°C at 5,000m or 16,400 ft. altitude. Other features include Power Boost 150% for 5 seconds.

**Highlights & Features:**
- Universal AC input voltage range
- LCD display monitoring output current / voltage / peak current and PSU temperature
- Lifetime expectancy monitoring and alarm signal
- Built-in active PFC with up to 94% efficiency
- Power Boost of 150% for 5 seconds
- Advanced Power Boost (APB)
- DC OK Contact and LED indicator for DC OK/ Overload
- Conformal coating on PCBAs to protect against common dust and chemical pollutants
The “Paris Agreement Rulebook” is to be implemented and was assigned in the 24th Conference of the Parties to the United Nations Framework Convention on Climate Change (COP24), which ended recently in December last year. The rulebook allowed for the realization of goal to “limit the global warming to 2 °C or 1.5 °C” and each nation’s Nationally Determined Contribution (NDC). For this reason, COP24 was closely followed by the global climate community with the utmost attention since the 2015 COP21 Paris Climate Summit.

However, what were results of such a crucial conference? A summary of the assessments by the international media and environmental groups in the past two weeks seems only to amount to the term “average”.

Global commentary COP24: Climate negotiations yielded average results

Text by Yvonne Chan / Climate and Energy Specialist of the Delta Electronics Foundation
"Special Report on Global Warming of 1.5 °C" released by IPCC last October clearly specified the difference between the rises of 1.5 °C and 2 °C in earth’s temperature. It has even estimated that the rise in earth’s average temperature would be likely to exceed 1.5 °C by 2030. There is no doubt that this momentous report has sounded the alarm in the negotiations “to urgently bolster the initiative for carbon reduction”, but not all the nations care for the warning.

Four leading oil-producing countries: USA, Russia, Saudi Arabia, and Kuwait unanimously insisted on “noting” rather than supportively “welcoming” the special report to weaken its position in the rulebook. After some compromise, conflict, and wrestling, the tone was set as “welcome the timely completion” without requiring the nations to refer to the scientific evidence in the execution of the “Paris Agreement”. This has made the global climate community worry that the implementation of the agreement will not take root and be settled.

The puzzle of the rulebook is missing a few pieces

Now take a look at the highly anticipated rulebook, which could be said to have been successfully released at the last hour. It defines a nation’s responsibility to deal with climate change and puts down each nation’s declared execution schedule and status in black and white. However, this seemingly comprehensive rulebook is still missing a few pieces of the puzzle.

The most important piece is none other than the carbon market, which is considered an effective mechanism to drive global collaboration. Brazil, led by “Trump of the Tropics” Jair Messias Bolsonaro, had insisted that the carbon rights obtained by the country can be traded and also factored into NDC. Of course it is difficult for other countries to agree to such a double calculation of carbon rights, and the proposal went nowhere in the end.
On the other hand, even though the rulebook was passed, the nations still lack the initiative for a higher level of climate action. Also, COP24 originally had a schedule to review each nation’s achievements from carbon reduction actions over the past three years since the “Paris Agreement” was passed. However, the countries spent most of their energy on debating the rulebook during this conference and appeared to lack interest in the NDC examination and reinforcement. With the exception of the 2050 “carbon neutral” target announced by the EU prior to the conference, almost all the other countries had nothing to show.

All in all, the negotiation results of COP24 were not satisfactory for the public. However, many critics consider that it was something to have produced the rulebook, especially under a “power vacuum”. Several indicator nations (UK, Germany, and France) who led the conference forward in the past conferences were unable to attend the negotiations this year due to their respective domestic affairs. Furthermore, looking back at the COP progress in history, this incomplete rulebook is probably the most comprehensive and most ambitious procedures and agreement to date.
Volunteer travelogue in Africa - Cherishing resources around you

Text by Sean Huang / DRC Senior Data Engineer

Foreword: During the Golden Week Holiday of Delta in 2018, I participated in a civil volunteer team to travel to Uganda, Africa for a two-week volunteer campaign of health education, helping and encouraging women in local villages to produce hygiene products from any materials available to them. To gain a deeper understanding of the local life, we carried out “Mom Pampering Day”, one day dedicated to helping local mothers complete their daily housework. The seemingly ordinary work has made us volunteers have profound and complex feelings. Through the story of the day, I would like to share with Delta colleagues the lifestyle of the people on this distant land.
"We are almost there!" Mike turned his head at the corner ahead and shouted somewhat encourage-ingly. He, at the age of seven, has big eyes and beautiful long eyelashes, and his body is as thin as any Ugandan child. However, the bashful smile on his face is rare among local children. Most of the children I saw along the way smiled broadly, showing two rows of brightly white teeth made conspicuous by their dark skin. They happily touched our forearms to feel the texture of the lighter skin. In contrast, Mike's shyness is different.

We had been walking for more than ten minutes and had made several turns on the loess-flying paths, climbing several small earth mounds. "Here we are!" Mike pointed to a small group of people who bent their backs. The villagers held yellow plastic barrels of the same style as ours and filled them with water in a small pool at the foot of the hill. The groundwater underneath the hill kept flowing out of the two water pipes on the wall. This is the only water source that the several nearby villages live on.

"We used to walk to get water every day since we were young," Christine said. She is a Ugandan volunteer who is responsible for regularly visiting families in need and assessing the subsidies invested. She told Mike's mother that she would visit this week but did not say the exact day so that she could get the whole picture of the real situation. "I can go very far this way!" After she filled the bucket with water, she shouted loudly before placing the bucket over her head, showing off the amazing head-carrying practice among the local women. Whether it is a bolt of cloth, a bunch of bananas, washbasin or something else, it can be carried off on top of their heads.
We stepped into the pool in a clumsy manner and filled the bucket with water by following the local ways, thinking that this journey shouldn't be wasted. However, in the return trip, several members reluctantly dumped part of the water because of the overwhelming weight of the water. I had to stop and swing my hands to relieve the pain at short intervals. "Oh, the handle of this bucket cut my hands! We don't know how to carry it on our heads..." It was very thoughtful of our members to come up with reasonable explanations for each other.

The plan of this day was to help Mike's mother complete her daily tasks. His mother was running a restaurant to support the entire family. The so-called restaurant was actually a roadside spot where a large pot was set, complete with a bench and a board for a dining table. We had to help her prepare the ingredients and peel green bananas. "Let her show you how to peel the banana." Christine worked as a translator and asked Mike’s mother to use a knife to demonstrate. After working awkwardly for a while, I looked at the finished product in my hands and said to Christine in despair: "We are KILLING these bananas instead of peeling them...."
After a short break, Mike’s mother hesitantly pulled out a few washbasins and talked with Christine. "Mike’s mom was very sorry, saying that the job was exhausting. I told her you have no problem." She explained with a smile. Assigned to the work of dishwashing, I squatted by the washbasin full of dirty dishes, using a Uganda-style scrubber cut from the feed bag, and the gray water and soap in the washbasin to remove food residues. Then I rinsed the remaining soap out of the dishes with some water that we just carried back. When the clean water turned grayish, I was to discard the water but told not to. My Gosh! It turned out that the grayish water would be used again the next day.

The members in charge of doing the laundry used four washbasins filled with water to soak the clothes in the clean water, rub them in the soapy water, rinse out the bubbles, and then wring them in the clean water in sequence that was the same as that of a washing machine. When the first piece of clothes was done, it gave such a sense of satisfaction. However, as they kept working, the water in the washbasins turned into an indescribable color, and the members’ expression was increasingly complicated. After all, they finished washing a hill-like load of clothes. The laundry in various colors was hung on the ropes and fluttered in the wind.

While we were working, I learned from Christine's introduction that Mike's mother is an HIV positive, and unfortunately Mike is another one among the pair of her children. His mother was very actively receiving treatments and her condition stable. Mike was still young, and his family didn’t let him know what happened. After all, such an issue is very sensitive to local people. He only knew that he was in poor health, and sometimes he got to stay in hospital for a week. His mother told us that Mike was very brave and a great help in the restaurant and at home; she was very gratified with that. When the sun was setting, with the fluttering clothes as the background, we took pictures with the family. Mike, in the photo, still wore a shy smile.

I often thought about the day after I came back to Taiwan. I thought that from the moment the child was born, he was destined to face many challenges in his life, from the inside outside. And what virtues and ability do I own to have an easy life with a lot of resources available to me? Since I realize that the world is unfair, I cherish more what I have. When returning to everyday life, watching and listening to the water flows out of a faucet or the like, I don’t take it for granted anymore. When we take a shower, wash and clean things, or drink water, we should just take what we need and leave more convenience to future generations. I hope that these good things will not be depleted in my own generation, and I wish that our children will never have to be severely tested by the basic needs of their lives.