

Saving Energy and Building "Green" for the World

In Hong Kong, an international financial and commercial centre, our citizens' daily activities mostly take place in skyscrapers. The use of air-conditioners, lifts, lighting, computers and various electrical appliances consumes a large amount of energy. In response, energy saving and green buildings have grown in popularity and become crucial to the development of modern society.

BEC Members are actively supporting the business community in energy saving and green building solutions. Let's learn more from them:

Issue Date: 23 May 2023

Council Members

China State Construction Engineering (Hong Kong) Limited ("CSHK")

CSHK is committed to continually improving environmental and energy performance through scientific and efficient management practices, and providing a solid foundation for green building construction with a professional ecological management team through leading technologies. Recently, at the 2023 Geneva International Exhibition of Inventions, the smart construction site management platform C-SMART developed by the company won the Bronze Award, being the first local constructor awarded by construction technology. It affirms the company's efforts in leading the industry toward digitalisation and intelligent management. [Learn More]

Gammon Construction Limited

Gammon has introduced CarbonCure™ technology to Hong Kong, whereby waste CO_2 captured from other industrial processes is injected into fresh concrete to reduce its carbon footprint without compromising on strength or performance. With this technology, the cementitious materials content in concrete can be reduced by 5%. CarbonCure™ provides a 4-6% reduction to Global Warming Potential to support the achievement of a net-zero future. [Learn More]

Jardine Engineering Corporation ("JEC")

To improve building energy efficiency, JEC launched an AI Powered analytics platform named JEDI, which utilises data-driven machine learning and AI solutions such as energy optimisation, fault detection diagnostics, including Internet of Things ("IoT") for facility management, to provide users with a holistic view of building performance and help achieve up to 8-12% energy saving. [Learn More]

Kum Shing Group Limited

Kum Shing has devoted ongoing efforts to developing renewable energy infrastructures to reduce carbon emissions. Leveraging its expertise in various engineering skillsets and new technologies, the group offers design and installation services for solar photovoltaic panels to corporate and individual clients who share the same vision of sustainability and building Hong Kong into a smart city. [Learn More]

PCCW Limited

The Group offers Smart Energy Solutions to help enterprises achieve energy saving through the deployment of renewable energy generation, energy distribution optimisation, AI-powered energy management and energy automation using IoT sensors. Based on its use cases, the solutions have reduced energy consumption by close to 10%, enhancing energy efficiency for a more sustainable future. [Learn More]

Siemens Limited

As part of Siemens Xcelerator, an open digital business platform featuring a curated portfolio, partner ecosystem, and a marketplace, Building X is a suite of AI-enabled application that leverages digital twins and integrates building systems for a net-zero future. It enables building operators to forecast energy usage and emission data in real-time, thus making data-driven decisions to achieve sustainability goals. [Learn More]

Schneider Electric (Hong Kong) Limited

Schneider Electric's EcoStruxure™ Building Advisor provides key insights into building operations by monitoring systems and identifying faults to proactively address building inefficiencies. It ensures that users can respond more proactively with data-driven decisions to reduce maintenance costs, improve asset value, increase occupant satisfaction, and create more sustainable and energy-efficient buildings. [Learn More]

The Hong Kong and China Gas Company Limited

By integrating pioneering technologies of air conditioning, dehumidifying, and UV sterilisation into one, as well as including energy-saving features powered by solar thermal energy, the Integrated PAU with Desiccant Wheel ("Integrated D-PAU") has been hailed for its innovative role in energy-saving.

With the very first Virtual Tour on Towngas' C&I website, visitors can conveniently explore the successful story of the Integrated D-PAU located at H ZENTRE. [Learn More]

Corporate Members

AECOM Asia Company Limited

Through AECOM's *Sustainable Legacies*, AECOM supports clients in the public and private sectors to achieve their carbon targets with professional services encompassing all aspects from planning, design and engineering to consulting and construction management throughout the project lifecycle. [Learn More]

Baguio Green Group Limited

Baguio offers a one-stop greening solution with sustainability considerations in design. The greening solution includes green roof installation, tree planting, automatic irrigation system installation, revegetation of badland, flora management and arboricultural services. [Learn More]

Clestra Limited

Clestra offers the world's smartest air management platform, which cleanses buildings' indoor air while vigilantly monitoring data in real-time. The solution's award-winning design and patented technology filters and disinfects VOC, viruses, spores and bacteria to match requirements from international building standards like WELL and LEED. Its web platform enables fleet management for large deployment of purifiers and data reporting. [Learn More]

CLP*e* Solutions Limited

To empower the sustainable development of Hong Kong and Mainland cities, CLP*e* offers comprehensive green building solutions ranging from consulting and energy management to renewable energy through innovative means to commercial and industrial customers. Energy as a service model can be applied to cooling, solar, EV charging and battery energy storage services which helps lower customers' capital investment. [Learn More]

Hilti Asia Limited

Passive fire protection is critical in high-rise projects. As it is practically impossible to quickly evacuate a large number of people from tall buildings, it is vital to contain fire, smoke and toxic gases. Hilti fire protection solutions are easy to install, retrofit and inspect. Many of its devices also contribute to obtaining green certifications from leading organisations including LEED and BREEAM. [Learn More]

Issue Date: 23 May 2023

WSP (Asia) Limited

With its engineering expertise and innovative digital mindset, WSP helps clients face the sustainability challenges of today and tomorrow by designing efficient and cost-effective Future Ready green building solutions. WSP will optimise buildings' life cycle performance to shape the environmental and sustainability vision and make a positive bottom-line effect. [Learn More]

General Members

Airguard Industries (HK) Limited

AirGuard's advanced Indoor Air Quality ("IAQ") sensors capture and visualise data on thermal comfort, CO_2 and pollutant levels that, given past building methodologies, are often at unhealthy levels. Combined with occupancy sensors to optimise energy usage and its suite of IAQ solutions, AirGuard enables decision-makers to map IAQ conditions in full, model indoor spaces accordingly and mitigate against health-related issues. [Learn More]

Allied Sustainability and Environmental Consultants Group Limited ("AEC Group")

AEC Group's green building certification consultancy covers local and international green and healthy building rating tools, including BEAM Plus, LEED, WELL, BREEAM, and China GBL certifications for building, e.g., commercial, residential, industrial, hotels, data centres, and public usage, etc. It provides detailed assessment to meet the certification criteria or statutory requirements, such as energy saving and indoor environmental quality. [Learn More]

Amosola Limited

The solar energy system is an essential part of a green building. Amosola partners with Jinko Solar, one of the largest solar panel manufacturers in the world, to provides one-stop solar solutions, from design, installation and equipment maintenance, to the development of environmental protection investment plans. Its solar energy system could be built on residential buildings, industrial buildings, commercial buildings, warehouses or any legally registered rooftop space. [Learn More]

ASB Biodiesel (Hong Kong) Limited

ASB Biodiesel, a green energy which is 100% produced by waste cooking oil, can reduce waste and provide a new source of energy. ASB perseveres with its motto of turning waste into energy which has been dedicated to collecting used cooking oil from local restaurants or food processors and producing sustainable biodiesel. [Learn More]

Belimo Actuators Limited

The Belimo Energy Valve™ provides pressure-independent flow control and transparent monitoring of heating or chilling systems, ensuring that they are not operated with a temperature spread that is too low (low delta T syndrome). The Belimo Energy Valve™ is an IoT device that can be connected to the Belimo Cloud, providing easy access to data and reports. [Learn More]

Canica Building Materials Limited

Canica offers both outdoor and indoor flooring solutions. Canica's thermal-treated HD bamboo product is suitable for outdoor applications while its engineered timber flooring is suitable for indoor use. Both of them are sustainable and eco-friendly products. [Learn More]

Issue Date: 23 May 2023

Commtech (Asia) Limited (Trading as Sygna Hong Kong)

With more than 25 years of experiences in commissioning and project management, Sygna is a global leader that offers professional consultancy services from mission-critical facilities to commercial offices, integrated resorts and many more.

Sygna identifies actionable Energy Saving Opportunities and provides its clients with solutions that save energy used in operations and ultimately achieve carbon neutrality objectives. [Learn More]

Cundall Hong Kong Limited

As a multidisciplinary engineer, Cundall integrates decarbonisation and energy efficiency approaches into everything it does, from corporate advisory to engineering design. Its work on upgrades for assets performance ranges from full net-zero pathway planning, energy audit and reduction planning, and electrification strategies to retrofits of smart building services solutions, plant optimisation, and structural design optimisation. Cundall is committed to achieving zero-carbon design on all projects by 2030. [Learn More]

Dyson Hong Kong Limited

Dyson Airblade hand-dryers help to create a cleaner and more hygienic washroom. All models have H13 grade HEPA filters, capturing 99.95% of particles, including bacteria and viruses. Using Airblade can replace paper towels and is engineered to help achieve sustainability goals. Dyson Airblade 9kJ produce up to 88% fewer CO_2 emissions and are the only hand-dryers to achieve Carbon Trust's Lower Carbon label. [Learn More]

EcoBricks Ltd

EcoBricks is a circular economy solution that transforms virtually any type of plastic waste into certified industry-grade concrete products. It recycles plastic waste that no one else can, diverting it from landfills and the natural environment. EcoBricks significantly reduces the carbon footprint of concrete through the use of local waste to replace natural resources, its 100% circular economy model and its ability to recycle 100% of its products at end-of-life, thus achieving true circularity and creating zero waste. [Learn More]

En-Trak Hong Kong Limited

En-Trak is an award-winning IoT platform that enables building occupants to control the temperature, lighting, and other environmental factors in their office space. The platform uses data analytics and machine learning to create a personalised and comfortable workplace experience, which leads to increased productivity and occupant satisfaction. In addition, it offers real-time insights and analytics to building managers, enabling them to optimise building efficiency and reduce energy consumption. En-trak is used and trusted by over 450 world-class clients across Asia. Its goal is to create a better and more sustainable workplace experience for employees and building owners alike. [Learn More]

Environmental Pioneers & Solutions Limited ("EPSL")

EPSL offers a one-stop comprehensive portfolio of sustainable solutions ranging from professional consultancy services covering energy and carbon audits, green building consultancy, IAQ certification and environmental assessment, to innovative environmental solutions including smart facility and energy management system enabled by AIoT and 5G technologies, nano-ozonation water treatment system, and deodorization system. [Learn More]

Issue Date: 23 May 2023

Envision Digital Hongkong Limited

Envision Digital is focused on bringing technology solutions as a Net-Zero Technology Partner. Its world-class AIoT technology helps governments and companies across the world accelerate progress toward a net-zero future and improve their citizens' quality of life. The company supports clients in adopting different smart building solutions that leverage Envision Digital's AIoT platform – an EnOS platform applying a range of applications to better manage energy, decarbonisation programmes, assets, facilities, spaces, IAQ and EV charging. [Learn More]

HKBN Ltd.

The Company's corporate business arm launched this Managed IoT - Energy Monitoring is a cloud-based solution that provides visibility into your real-time energy consumption with features including one-stop service, advanced data analytics, a centralised dashboard, and 24/7 abnormal usage alerts. With energy data at your fingertips, you can take immediate actions to reduce your energy consumption as well as operational costs. [Learn More]

Intertek Testing Services Hong Kong Ltd.

Intertek is providing total solutions on energy saving and green building assurance services, including three major areas from product LCA, supply chain assessment, green building consultation and assessment services.

It also provides data consolidation, reporting services and also IoT tool for system monitoring with an online platform for real-time data collection. [Learn More]

Issue Date: 23 May 2023

Mitsubishi Electric (Hong Kong) Limited

Mitsubishi Electric Building Management System ("BMS") integrates diverse building systems and devices into one seamless solution, including e-series Chillers, PLCs, elevators, etc. The one-stop solution centralises building equipment monitoring and provides easy access to real-time power consumption data. It helps business and public sectors thrive and progress into a more sustainable and higher efficiency environment. [Learn More]

Netsphere Solution Limited

Netsphere provides the diversified power solution of the high-quality products including Uninterruptible Power System, rectifier, inverter, EV charger, battery system, Energy Storage System , and specialises in clean energy such as solar, hydrogen solution as well as diversified networking power related solutions and infrastructure services to customers. [Learn More]

Neuron Operations Limited

Neuron's ESG modules help clients understand their building's carbon emissions and plan for sustainable strategies. The digital platform integrates all building data, quantifying emissions from IoT, BMS, and waste measurement devices. Operators can monitor emission history, benchmark spaces, generate ESG reports, and manage corporate emissions for multiple buildings. It also offers energy-saving modules to reduce carbon emissions and identify optimisation measures. [Learn More]

Ronald Lu and Partners (Hong Kong) Limited

Ronald Lu and Partners provides environmental benefits for communities through various design services. “Air-tree” is an urban greenery and wind funnel installation for climate adaptation to extreme temperatures in outdoor open spaces. Vertical sponge building envelope design for climate adaptation of stormwater management for high-rises. Vertical microclimate-responsive design analysis and high-rise building passive design consultancy services review and formation of zero-carbon-ready high-rise building design strategies. [Learn More]

SGS Hong Kong Limited

Excellence in Design for Greater Efficiencies (“EDGE”) helps property developers create resource-efficient buildings quickly, easily and affordably. It is the next generation of environmental building certificate standards, incorporating a design tool to prove the financial case for constructing green buildings.

SGS provides EDGE audit and certification services. We are the one-stop-shop provider for all EDGE green building certification requirements. [Learn More]

Spare-it Limited

Spare-it is a Software as a Service (“SaaS”) platform for workplace sustainability. Its smart scales deployment enables users to access live waste intelligence inside the building and leverages this data to help people increase circularity, reduce waste, and reduce associated costs.

Based in Boston, and the company works with leaders and innovators in Boston, New York, San Francisco and Hong Kong. [Learn More]

South Star Glass Limited

Glaspedia CdTe thin-film Building Integrated Photovoltaics ("BIPV") can be applied to vertical façade glazing with longer power generation hours at a low incident angle and therefore higher total output compared to the first generation mono-si PV. Thanks to technological advancement, payback time is drastically reduced to around 10-15 years. Glaspedia BIPV can be customised to transparent vision glass with different visible light transmittance. [Learn More]

Sustainable Office Solutions Limited ("SOS")

SOS specialises in office inventory management and provides tailored and streamlined service to support businesses in their transition towards a resource-efficient, circular and sustainable economy. Through sustainable solutions that optimise redistribution, recycling and reuse, SOS helps corporations, property managers and developers to maximise the value of their office assets while minimising waste, with over 95% waste diversion rate. [Learn More]

Tony Ip Green Architects Ltd

Tony Ip Green Architects are community-centric architects, urban designers, interior designers and green building professionals, who specialise in sustainable design and advocate the paradigm shift to green architecture and biophilic urban-scape to address climate change. [Learn More]

Wo Lee Steel Co., Ltd

Wo Lee is a steel supplier and fabricator being able to supply high-strength and low-carbon-footprint steel. Its automated welding robots and offsite fabrication capabilities can reduce construction waste and speed up installation time on-site. [Learn More]

To connect with the BEC Members listed above, please contact us at membership@bec.org.hk.

Issue Date: 23 May 2023

About Business Environment Council Limited

Business Environment Council Limited ("BEC") is an independent, charitable membership organisation, established by the business sector in Hong Kong. Since its establishment in 1992, BEC has been at the forefront of promoting environmental excellence by advocating the uptake of clean technologies and practices which reduce waste, conserve resources, prevent pollution and improve corporate environmental and social responsibility. BEC offers sustainable solutions and professional services covering advisory, research, assessment, training and award programs for government, business and the community, thus enabling environmental protection and contributing to the transition to a net-zero economy.

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