



Synergy Corporate Identity



Synergy Saving Solutions



Infinity & Sustainability



With Quality & Integrity



Synergizing Resources



With EMC business model,

Synergy's interest is always aligned with our clients' benefits –

Achieving maximum energy efficiency while improving
and maintaining the highest operational standard

Green Tech Economy: Our New Economy

Progress and Development of Synergy Group

- 2018 Stake Acquisition in Negawatt specializing in Building Digitalization with Artificial Intelligence and Big Data Analysis
 - Investment in a Vanadium Resource and a Processing Facility for Electrolyte Supply to Energy Storage Market
 - BOCHK Corporate Environmental Leadership Awards EcoChallenger
 - WGO Sustainable Business Award
- 2017 Selected in the Top 100 Most Promising Listed Company by Forbes China
 - Selected as the Strategic Partner of the Silk Road International Association in Environmental Protection
- 2016 Listed on HK Main Board (Stock Code: 1539 HK)
 - United Nations and SERI Social Caring Awards for Green Excellence
 - Launched Synergy Energy Efficiency Index (SEEI) with WGO
 - WGO Sustainable Business Award
 - PCCW & YP The Excellent Brand Award
- 2015 Completed the first solar project in Guinea
 - Listed on GEM Board of HKEX
 - BOCHK Corporate Environmental Leadership Awards EcoPartner
- 2014 Completed the first LED media display project, One Peking
 - Established Synergy ESCO (Malaysia) Sdn Bhd
- 2013 Introduced proprietary technology "Cooling & Water Treatment Solution"
- 2011 Launched Synergy Group new identity
 - WWF Hong Kong Corporate Member
 - Received Caring Company certificate
 - HKPC's Green Manufacturing Network Member
 - Launched EMC with new induction lamp and LED products
 - Launched EMC in HK with hydrocarbon energy saving refrigeration
- 2010 CAPITAL Outstanding Green Excellence Awards
 - CAPITAL Entrepreneur Green Enterprise Awards, 1st runner-up
 - Prime Magazine and Business Environment Council Prime Awards for Eco-Business
 - Economic Digest The Best SME Partners
 - Productwi\$e Label of the Hong Kong Awards for Environmental Excellence
 - Established overseas partnership for "Tube-in-Tube (TIT)" System
- 2009 Purchased "TIT" worldwide patent rights
 - · Outstanding Chinese Patented Invention Award from the State Intellectual Property Office (SIPO) of the PRC
- 2008 Founded Synergy Lighting Limited





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Synergy Group Major Markets



^{*} Mainly based on "Doing Business Project" data from The World Bank. Electricty rate of the capital is referenced if no country average is provided.

For USA and EU, data from the government agency is referenced.

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^{**} United Nations Framework Convention On Climate Change Intended Nationally Determined Contributions.

Energy Management Contract



Synergy Energy Saving & Management Services

In Synergy, we provide one-stop energy saving and management solutions for reputable multi-national companies and conglomerates to achieve energy efficiency. With the help of our professional team of energy specialist from Synergy, you can enjoy a wide range of services with absolutely no upfront investment cost.

From the design to the implementation of energy saving and clean energy projects, we can help you achieve energy efficiency and reduce electricity expenses up to 80% within a year. Our services include but not limited to retrofitting, energy conservation, comprehensive energy audit for the facilities, and provide consultation advices in identifying possible improvements.

THE EMC MODULE

The EMC module enables you to reduce energy expense, energy consumption and carbon footprint at no opportunity cost. In return, Synergy will share part of the total energy cost you have saved through enjoying our services as the project cost.



How it works? One-Stop Energy Saving & Management Service

Synergy covers all necessary capital investments, and provides technology knowhow for our clients. Our experienced team of engineers and project managers strives to assist you in achieving a maximum amount of guaranteed savings with our expertise in the clean energy, energy saving and management field.

Establish Baseline and Contract Signing **Energy Audit** Savings Opportunities Send a professional Baseline energy Establish savings Project management team of energy consumption percentage and define including detailed specialists, CEng, establishment, energy contract terms design, engineering, BEAM Pro, and saving and clean energy procurement, Certified Energy measures identification. installation and testing, Computer-aided Manager to perform training, operation, energy audit software for system maintenance and repair preliminary design, scientific measurements and evaluations

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Our Solutions



Building Digitalization



Our subsidiary, Negawatt, provides a scalable cloud-based platform which serves as an artificial intelligence (A.I.) virtual engineer to assist building owners to achieve easy and smart building management through electrical and mechanical digital transformation. We offer 3D visualization and comprehensive document control, energy and key indoor environmental quality parameters monitoring and analysis, fault detection and diagnostics, predictive maintenance planning, energy saving measures identification, and automatic reporting for the building.

Negawatt also provides an intelligent platform to automatically optimize chiller operations through A.I. and machine learning in order to save energy.

Solar Energy



Synergy provides a wide range of world class, high efficiency solar energy products in accordance with customer needs. We have a specialized team of professionals to provide a turnkey solution from funding, design, installation and commissioning, to operation and maintenance of Photovoltaic (PV) plants.

Facade Lighting



The Synergy LED media display excels in quality and design practices, including but not limited to unparalleled high transparency, slim size, light weight, high brightness and low power consumption.

Energy Storage - VFB



Synergy offers a wide range of energy storage solutions and in particular, a patented core vanadium flow battery (VFB) technology with more than 15 years of operational experience at over 50 sites worldwide. It is a battery with high safety and long life expectancy of over 25 years of heavy duty cycle services. It is extremely scalable with best-in-class efficiency and power density.

Cooling



Synergy Coologic® Energy Management Platform offers a comprehensive set of cooling energy saving solutions which can help to achieve 20-40% savings in air conditioning energy consumption. The solutions include Environmental Condenser Water Treatment solution & Chilled Water Treatment solution, Air Handling Unit (AHU) Optimization, Inverter Control, Cooling Load Management, Overall System Optimization and Data Mining Analysis on saving strategies.

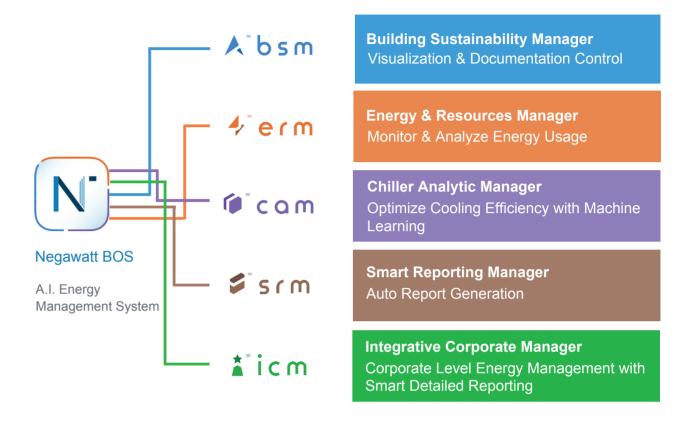
Lighting



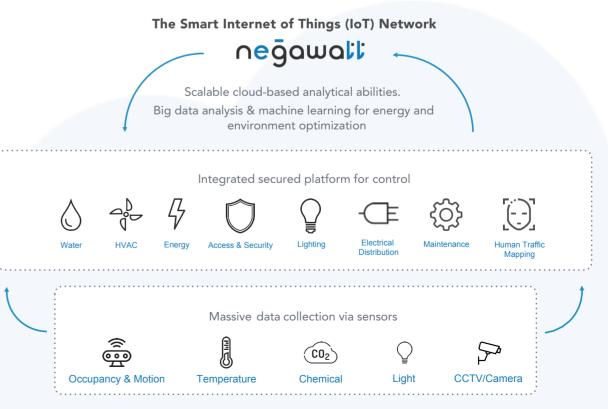
Synergy has developed its own award-winning, cutting edge, and patented energy saving lighting product, which is revolutionizing the lighting market by setting a new standard. Synergy specially co-designed the LED chips to produce the best Ultra Brightest and Coolest High Output LED lighting with up to 190 lm/W (@8W) while lasting up to 100,000 hours with very low failure rate at 0.01% per year.

Building Digital Transformation

Negawatt helps buildings to become smart through Electrical & Mechanical (E&M) digital transformation.



As a virtual engineer, Negawatt Building Operating System (BOS) is a cloud-based software with artificial intelligence designed to collect, manage, and analyze all building information under one platform - to improve energy efficiency, increase building operator's productivity and optimize resources for building excellence.



Vanadium Resources & Vanadium Flow Batteries



Long lifespan of 25+ years with minimal degradation



No Fire/Explosion or Emissions Risk



100% Reusable & Recyclable



Instant Release on Demand with **High Conversion Efficiency**



Extremely Scalable



Wide Temperature Range with No Risk of Cross-Contamination



Long Duration Stable Storage Application

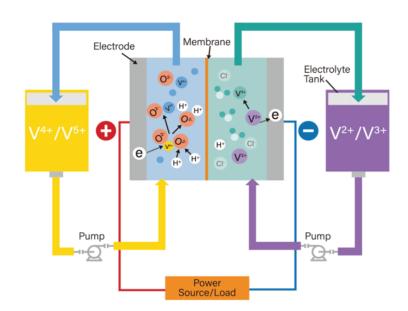


Modular Architecture, Simple Installation & Arrangement



High-Reliability Plug & Play Arrays

Our chosen Vanadium Flow Battery (VFB) is a US patented core technology with specialized cell stack and electrode design. It is recognized by Pacific Northwest National Laboratory and independent engineering consultant. VFB has been proven in the market for more than 15 years at 50+ sites. It has also been used in US military/navy bases.





To be the leading Vertical, Fully-Integrated, Low-Cost High Purity Vanadium Producer and VFBs Supplier for the hundred-billion dollar Energy Storage industry market

70% ownership in a high-grade vanadiumcontaining reserve with more than 30,000 tonnes of vanadium pentoxide (V₂O₅) in China





Constructed a nearby processing facility with a maximum production capacity of 5,000 tonnes of V_2O_5 at a high purity of 98%

Possessed the purification technology to produce 99.96% purity of V₂O₅ for electrolyte in VFB





Partnered with a US supplier who provides proprietary total VFB solutions

Cooling Solution

Synergy Coologic® Energy Management Platform



3-6%

Environmental Chilled Water Treatment Solution



5-10%

Environmental Condenser Water Treatment Solution



20-30%

Energy Saving Refrigerant



5-10%

Variable Frequency Drive



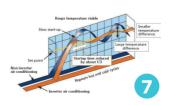
5-20%

System Design Optimization



2-10%

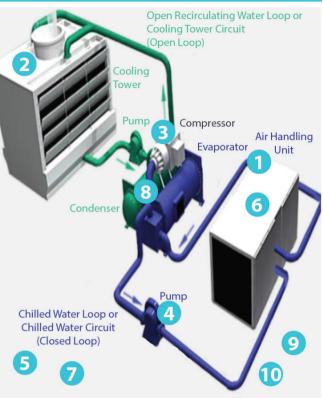
Equipment Optimization



5-20%

Cooling Load Efficiency Optimization

Estimated minimum saving 20-40% on air-conditioning systems





5-10%

Heat Recovery Solution



5-10%



5-10%

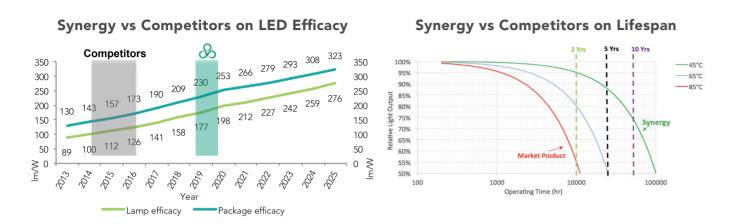


Energy Management Data Mining Analysis

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Lighting Solution

Ultra High Output LED Lighting



	Synergy LEDs	Competitors LEDs
Energy Savings	81% (190lm/W, 8W)	57-62% (100-120lm/W, 16-18W)
Product Life Span	100,000 hours (low maintenance)	20,000 - 50,000 hours (high maintenance)
Heat Generation	75% less heat generation, save cooling, stable product	High heat generation, more cooling, high failure
Lux Performance Guarantee	Lumen drop ≤ 2 ~ 4 % per year	High lumen drop 10 ~ 20 % per year
Product Failure Rate	≤ 0.01% per year	10 - 15% after 2nd year 50% by end of life
LED Driver Failure Rate	Patented high efficiency driver with 1% power loss	High failure rate with 12% power loss

Our Case Studies

Energy Saving & Building Digitalization Solutions

p.17-29

South Africa	A Major Retailer	Retail (Hypermarket /CG Store)
China	China Overseas - The UniMall	Property Development
Malaysia	WCTH - Paradigm Mall	Retail (Shopping Mall)
Malaysia	Kuala Lumpur International Airport	Aviation
Malaysia	Sungei Wang Plaza	Retail (Shopping Mall)
Indonesia	Lippo Group - Hypermart	Retail (Hypermarket)
Indonesia	Lippo Group - Matahari	Retail (Department Store)
Singapore	Singapore Airport Terminal Services	Catering
Hong Kong	International Commerce Centre	Property Development
Hong Kong	The Kowloon Motor Bus Co. Ltd.	Public Transportation
Hong Kong	Citibank Tower	Property Development
Hong Kong	Towngas Headquarters	Utility
Hong Kong	Sun Hung Kai Centre	Property Development
LED Media Display		p.31-36

Hong Kong	Prada Canton Road Flagship Store	Retail
Hong Kong	Miu Miu Canton Road Store	Retail
Hong Kong	One Peking	Property Development
Hong Kong	Miramar Shopping Centre (Mira Mall)	Retail
Hong Kong	No. 26 Wellington Street	Property Development
Hong Kong	YOHO Midtown	Property Development

Solar Energy and Energy Storage

p.38-39

Guinea	Roof-Top Photovoltaic (PV) Plant
Indonesia	Ground-Mounted PV Plant and Battery Storage



A Major Retailer

South Africa





Project: The retailer is the largest consumer goods retailer with over 2,600 outlets in Africa. It is listed on the

Johannesburg Stock Exchange Limited in the "food retailers & wholesalers" sector. Secondary listings are also maintained on the Namibian and Zambian Stock Exchanges.

Synergy has helped in reducing lighting electricity cost for superstores, supermarkets and convenient

Scope of Work: Existing T8 fluorescent tubes in over 2,500 stores are being replaced with Synergy LED lightings to

enhance energy efficiency

Project Date: May 2017 – present

Description



53-67% energy saved



~ 200M kWh energy reduction in a year



 $CO2 = 198,000 \text{ tons } CO_2 \text{ emission reduction in a year}$



= Planting 9,000,000 trees

The emission factor is assumed to be 0.99 kgCO₂/kWh based on Eskom utility company data It is assumed that each tree can absorb 21.8 kgCO₂ throughout its life Preliminary estimation and project subject to deployment

China Overseas - The UniMall

China





Project: UniMall, a brand mall series, is developed by China Overseas Property Holdings Limited, which is listed

on the Hong Kong Stock Exchange (02669.HK). It is a subsidiary of the China Overseas Holdings Limited with business in more than 70 major cities across China. It is managing over 672 contracted projects servicing an area of about 130 million m².

Existing lightings are being replaced with Synergy LED lightings to enhance energy efficiency for the Scope of Work:

UniMall in Nanjing

Project Date: 2018 – present

Description



62% energy saved



 \bigcirc = 299,600 kg CO₂ emission reduction in a year



Planting 13,760 trees

The emission factor is assumed to be 0.997 kgCO₂/kWh based on online tanpaifang source It is assumed that each tree can absorb 21.8 kgCO₂ throughout its life

WCTH - Paradigm Mall

Malaysia







Project:

Paradigm Mall was built in 2012 with a total GFA of 65,032m². It is part of the RM1.8 billion dynamic Paradigm integrated commercial development. It is managed by WCT Malls Management under the WCT Holdings Berhad (WCTH). WCTH is listed on the Main Market of Bursa Securities (KLSE:WCT) which is mainly involved in engineering and construction, property development, investment and management. The major owner of Pavilion Group has acquired a stake in WCTH.

Paradigm and Synergy have entered into a five-year Energy Management Contract for reducing lighting and cooling electricity cost for the Mall.

Scope of Work:

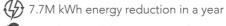
Existing lightings have been replaced with Synergy LED lightings to enhance energy efficiency. Implemented seven solutions of Synergy Coologic® Energy Management Platform

Project Date: September 2014 – present

Description



45% energy saved (71% in lighting, 33% in cooling)







Planting 262,061 trees















Kuala Lumpur International Airport

Kuala Lumpur, Malaysia





Kuala Lumpur International Airport (KLIA2) is the largest and busiest airport in Malaysia with site spanning Project:

> over 100 km². The airport handles more than 50 million passengers a year. It is operated by Malaysia Airports Holdings Berhad (MAHB) which is listed on the Malaysian stock exchange (MYX:5014).

KLIA2 and Synergy have entered into a ten-year Energy Management Contract for the carpark.

Scope of Work: Existing T5 lightings have been replaced with Synergy LED lightings to enhance energy efficiency

Project Date: March 2016 – present

Description



77% energy saved



20% increased brightness



942,000 kWh energy reduction in a year



 $CO_2 = 698,020 \text{ kg CO}_2 \text{ emission reduction in a year}$



= Planting 32,060 trees

The emission factor is assumed to be 0.74 kgCO₂/kWh based on Malaysia Authority It is assumed that each tree can absorb 21.8 kgCO₂ throughout its life

Sungei Wang Plaza

Malaysia







Project: Sungei Wang Plaza, with a total GFA of 47,483m², is one of the longest running malls in Malaysia with

shopper traffic of 13.8 million.

Sungei Wang Plaza and Synergy have entered into a five-year Energy Management Contract for reducing

lighting and cooling electricity cost for the Mall.

Existing lightings have been replaced with Synergy LED lightings to enhance energy efficiency. Implemented Scope of Work:

seven solutions of Synergy Coologic® Energy Management Platform

Project Date: September 2016 – present

Description



44% energy saved (86% in lighting, 29% in cooling)



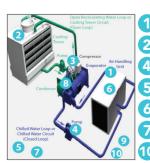
8.0M kWh energy reduction in a year



= 5,901 tons CO_2 emission reduction in a year



Planting 271,050 trees





The emission factor is assumed to be 0.74 kgCO₂/kWh based on Malaysia Authority It is assumed that each tree can absorb 21.8 kgCO₂ throughout its life

Lippo Group - Hypermart

Indonesia



Lippo Group - Matahari

Indonesia









Project: Hypermart is the largest hypermarket retailer with over 100 stores in Indonesia. It is operated by PT

Matahari Putra Prima Tbk (MPPA), Indonesia's prominent multi-format modern retailer listed on the Indonesian stock exchange (IDX:MPPA), under Lippo Group. Lippo Group is one of the largest real estate

developers in Indonesia with 16 listed companies across Asia.

Hypermart and Synergy have entered into a seven-year Energy Management Contract for reducing lighting electricity cost for superstores.

Scope of Work: Existing lightings have been replaced with Synergy LED lightings to enhance energy efficiency

Project Date: April 2016 – present Project: Matahari Department Store is the largest chain of department stores in Indonesia, operating a business

space of over one million m². It is listed on the Indonesian stock exchange (IDX: LPPF). It is operated under Lippo Group which is one of the largest real estate developers in Indonesia with 16 listed

companies across Asia.

Matahari Department Stores and Synergy have entered into a seven-year Energy Management Contract for reducing electricity cost for retail stores.

Existing lightings have been replaced with Synergy LED lightings to enhance energy efficiency Scope of Work:

Project Date: December 2015 – present

Description



76% energy saved



- 20-40% increased brightness



45M kWh energy reduction in a year



 $CO_2 = 38,295$ tons CO_2 emission reduction in a year



= Planting 1,758,878 trees





















= Planting 4,104,049 trees

105M kWh energy reduction in a year

Description

























The emission factor is assumed to be 0.85 $\rm kgCO_2/kWh$ based on PLN figure It is assumed that each tree can absorb 21.8 kgCO, throughout its life

= 89,355 tons CO_2 emission reduction in a year

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Singapore Airport Terminal Services

Changi Airport, Singapore





Project: Singapore Airport Terminal Services (SATS) is the leading provider of gateway services and food solutions

in the region and listed on the Singapore stock exchange (SGX:S58). SATS controls about 80% of Changi

airport's ground handling and catering business.

SATS and Synergy have entered into a five-year Energy Management Contract for reducing lighting electricity

cost.

Scope of Work: Synergy has replaced high bay metal halide lamps and induction floor lights with Synergy Energy Saving

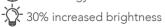
Induction Lamps

Project Date: 2013 - 2018

Description



60% energy saved





3.0M kWh energy reduction in a year



 $CO_2 = 1,294 \text{ tons } CO_2 \text{ emission reduction in a year}$



= Planting 59,428 trees

The emission factor is assumed to be 0.43 kgCO₂/kWh based on Singapore Market Authority - Singapore Energy Solutions It is assumed that each tree can absorb 21.8 kgCO₂ throughout its life

International Commerce Centre

Hong Kong





International Commerce Centre (ICC) is the tallest building in Hong Kong developed by sole metro Project:

> operator, MTR Corporation Limited and one of the largest property developers, Sun Hung Kai Properties. It houses some of the most prominent financial institutions in the world.

ICC and Synergy have entered into a six-year Energy Management Contract for reducing lighting electricity cost.

Scope of Work:

LED conversion for general lightings in carpark, commercial floor corridors and toilet areas

Project Date: 2015 – present

Description



79.2% energy saved



16% increased brightness



208,750 kWh energy reduction a year



 $CO_2 = 112,720 \text{ kg CO}_2 \text{ emission reduction in a year}$



= Planting 5,177 trees

The emission factor is assumed to be 0.54 kgCO $\slash\!\!\!/ kWh$ based on CLP figure It is assumed that each tree can absorb 21.8 kgCO₂ throughout its life

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The Kowloon Motor Bus Co. Ltd.

Hong Kong





The Kowloon Motor Bus Co. Ltd. (KMB) is one of the world's biggest public transport companies and the Project:

largest bus company in Hong Kong in terms of fleet size and number of bus routes. It is a subsidiary of

Transport International Holdings Limited (00062.HK).

KMB and Synergy have entered into two consecutive four-year Energy Management Contracts for

reducing lighting electricity cost.

Scope of Work: Existing high bay lamps and fluorescent systems at four depots have been replaced with Synergy

induction lamps and LED tubes

2011 – present **Project Date:**

Description



55% energy saved



50% increased brightness



2.6M kWh energy reduction in a year



 $CO_2 = 1,389 \text{ tons } CO_2 \text{ emission reduction in a year}$



= Planting 63,775 trees

The emission factor is assumed to be 0.54 kgCO₂/kWh based on CLP figure It is assumed that each tree can absorb 21.8 kgCO₂ throughout its life

Citibank Tower

Hong Kong





Citibank Tower is a 50-storey Grade A commercial tower with a floor area of over 6,000 m². It is owned by Project:

Champion REIT listed on the Hong Kong stock exchange (02778.HK).

Citibank Tower and Synergy have entered into a six-year Energy Management Contract for reducing lighting

electricity cost.

T8 fluorescent tubes have been replaced with Synergy patented "Tube-in-Tube" lighting system in Scope of Work:

Citibank headquarters and back office

2011 - 2017 Project Date:

Description



40% energy saved



- 40% increased brightness





= Planting 21,536 trees

The emission factor is assumed to be 0.78 kgCO₂/kWh based on HEC figure It is assumed that each tree can absorb 21.8 kgCO₂ throughout its life

Towngas Headquarters

Hong Kong





Project:

Towngas is Hong Kong's first public utility and one of the largest energy suppliers in Hong Kong (00003.HK).

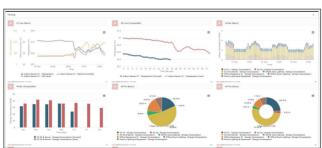
Scope of Work:

Deployment of Building Sustainability Manager (BSM), Energy & Resource Manager (ERM) and Chiller Analytic Manager (CAM) for Towngas headquarters including the car park. The following has been implemented:

- 20% energy saved on air-conditioning system with no hardware investment
- Chiller optimization through artificial intelligence/ big data analysis to identify the optinum operating condition while minimizing energy use
- Smart metering structure establishment with indoor environmental quality and energy usage monitoring
- Customized dashboard and alarming system
- Thermal line evaluation in accordance to ISO certification approach
- System establishment to consolidate all types of information such as equipment specifications and layout

Project Date:

2017 – present





Sun Hung Kai Centre

Hong Kong





Project:

Sun Hung Kai Centre is a Grade A commercial building in Wanchai with a floor area of over 83,980 m². It is owned by Sun Hung Kai Properties listed on the Hong Kong stock exchange (00016.HK).

Scope of Work:

Deployment of Building Sustainability Manager (BSM), Energy & Resource Manager (ERM), Chiller Analytic Manager (CAM) and Smart Report Manager (SRM) for Sun Hung Kai Centre including the office premises, retail mall and the underground car park. The following has been implemented:

- Chiller optimization through artificial intelligence/ big data analysis to identify the optinum operating condition while minimizing energy use
- Smart metering structure establishment with indoor environmental quality and energy usage monitoring
- Customized dashboard and alarming system
- Thermal line evaluation in accordance to ISO certification approach
- System establishment to consolidate all types of information such as equipment specifications and layouts to achieve ISO50001 certification
- Consultancy work on green building assessment (Beam Plus)
- Smart reporting system for data consolidation and Environmental, Social and Governance (ESG) report preparation

Project Date: 2017 – present





Prada Canton Road Flagship Store

Hong Kong





Type: Networked Video Wall Digital Signage System

Project Date: June 2016

Description

1st in the World in PRADA GROUP

The Ultrafine P3 LED display wall 6,628mm (W) x 2,496mm (H) has been incorporated with automatic wireless control swing door system. Seven top commercial grade video walls with different sizes are connected together so that Prada headquarters in Milan can manage and update the contents remotely via cloud network. This is the first design that has been applied in Prada Global Store network.







Miu Miu Canton Road Store

Hong Kong





Type: P3 Indoor LED Display

Project Date: May 2016

Description

FHD In-store LED Display

The Ultrafine P3 LED display 5,568mm (H) x 1,920mm (W) has been incorporated into the design of the stairwell in the store.









One Peking Hong Kong





Type: P200 Outdoor See-through LED Display

Project Date: October 2014

Description

Energy Saving and High Quality LED Media Display with Long Lifespan

After the success of the CITIC Tower project, One Peking is another P200 LED media screen with the size of 814m². This LED Media Display sits on the roof top of an iconic building situated in the heart of Kowloon, overlooking the spectacular view of Victoria Harbour.





Miramar Shopping Centre (Mira Mall)

Hong Kong





Type: Curtain Wall Media Display

Project Date: October 2015

Description

Outdoor Advertising with Cutting Edge Content Management and Live Broadcast Technologies

A shopping, dining and business hub in the prime location on Nathan Road, Tsim Sha Tsui. 2 nos. of Curtain Wall Media Displays located at the main and side entrance (Knutsford Terrace) of the shopping mall, both are equipped with cutting edge content management and live broadcast technologies that can greatly enhance the event and marketing promotion capabilities.





No.26 Wellington Street

Hong Kong





Type: Curtain Wall Media Display

Project Date: October 2015

Description

Eye-grabbing LED Media Display for Outdoor Advertising Situated in the Heart of Central

The first curtain wall building LED media display with the measurement of 11.92m (H) x 9.4m (W) that covers 4 storeys in Hong Kong.

With over 1.1M pixels of display resolution, our LED media display retains its unparalleled high transparency of 75%.





YOHO Midtown

Hong Kong





Type: LED Light Boxes and Control System

Project Date: November 2014

Description

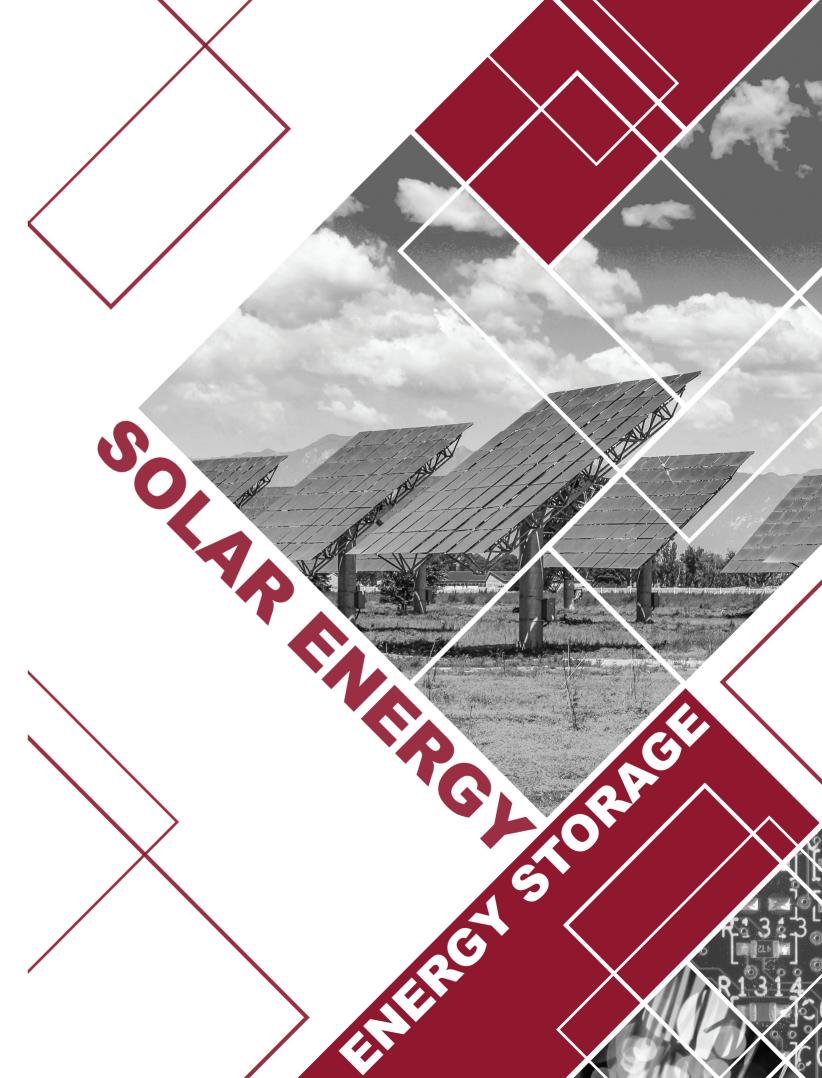
Smart and Automatic Control Signboard System

Our intelligent control system automatically reacts to preset outdoor lighting level and/or time schedule.

Six signboards were installed with over 220,000 nos. of Nichia (Japan) LEDs. It measures a total area of 1,500m² facing both Castle Peak Road and Yuen Ching Road.







Roof-Top Photovoltaic (PV) Plant

Guinea, West Africa





Type: 318W Mono-Crystallite Back-Contact Technology without Light Induced Degradation (LID) Effect

Project Date: July 2015

Description

A Roof-Top Grid Connected Solar Power System using the World's Highest Efficiency Solar Modules

Synergy has built the largest grid-connected roof-top (29,500mm x 10,200mm) solar PV system in Conakry in 2015. 128 PV modules were connected to the grid through four 12.5kW solar inverters. The PV Module has an efficiency of over 19.5%. The adaptation efficiency is more than 99.9% with multi-Maximum Power Point (MPP) trackers.

Ground-Mounted PV Plant & Battery Storage West Papua, Indonesia





Type: 250W Mono-Crystallite PV Module

Project Date: September 2016

Description

A Leading Approach – An Integrated Solar Energy and Battery Storage System

40 mono-crystallite PV modules were installed in an off-grid village in Indonesia. The modules were connected to a 10kW low-frequency solar inverter. A valve-regulated and maintenance-free 14.4kWh gel battery was also installed to store excess solar energy for later usage when required (e.g. at night) to optimize the use of the PV system and enhance its reliability.

Our Clients

Office & MNCs



























中國人專保險(海外)股份有限公司 CHINA LIFE INSURANCE (OVERSEAS) Co. LTD.

Retail































Property Management / Real Estate Developer

































Transportation











Industrial / Others



















(1) 恒益



"Coupled with their investmentfree saving sharing program, strong customer service and technical support, Synergy Group has assisted Henderson Land Group in cutting operational costs and more importantly contributing to a greener environment."





Kwok Lam JP, MH **Executive Director** Henderson Land Group 00012.HK (Henderson Land Development)

華懋集團 **Chinachem Group**

"As one of our first partners in the energy saving field, Synergy Group has allowed us to achieve energy savings, reduce operational costs and succeed in our aim of improving energy efficiency without requiring any up front capital."





Dr. Kung Yan-Sum Chairman Chinachem Group

"Citybase believes that environmental protection is essential in quality property management and is committed to creating a low carbon living environment for occupants by implementing sustainable green policies and promoting energy saving products as well as carbon management solutions."





Jim Huna Kin General Manager Citybase Property Management Limited 00001.HK (Parent Company)

Whampoa Property Management

"Synergy Group proved to provide a professional and efficient service to us. As what they have committed, it makes the property achieve Carbon Reduction and substantial saving in electricity cost."





Assistant General Manager Estate Management Whampoa Property Management Limited 00013.HK (Parent Company)



"We formulate our Environmental Management Policy to stipulate our green services, objectives and targets. Through our enormous property asset and facility service network, we work hand in hand with our customers to endeavour for a cost-effective and green living environment and contribute to the sustainable development of the Earth."





Dr. Edmond Cheng Managing Director Urban Group



"Energy saving is one of our top priorities, not only with regard to the positive effects on the environment and to reduce climate change but also to reduce our operational costs."



Chief Executive Officer 7-Eleven Hong Kong & Macau



"We fully appreciate the high level of professionalism and the "can do" spirit of the Synergy Group. The quality of the device provided to us is excellent and satisfies our highly demanding requirements."



James C Louey Commercial Director The Kowloon Motor Bus Co. (1933) Limited 00062.HK (Parent Company)





"The implemented comprehensive cooling solution from Synergy has demonstrated over 20% saving in air conditioning energy & ventilation services consumption while maintaining all operational standards. We are very impressed by their professionalism in managing the whole energy saving project and able to offer complete set of cooling solution ranging from water treatment solution, AHU optimization, inverter control, cooling load management and overall system optimization. Coupled with Synergy's lighting solution and carpark fan control with saving of over 70% in energy consumption."



Capt (R) Kon Head of Operations of Paradigm Mall WCT Malls Management Sdn. Bhd. KLSE:WCT (Parent Company)

GMATAHARI

"We have gone through a very stringent tendering process and carefully selected Synergy Group as our energy saving solution provider. We are able to enjoy more benefits such as better electricity savings and lighting performances with Synergy's advanced and customized solutions compared with other LED manufacturers."





Clarissa Joesoep Chief Financial Officer PT. Matahari Department Store Tbk. IDX:LPPF

LHGROUP @ 叙福樓集图

"LHGroup supports ecofriendly ways of doing business. Our use of Synergy Group's energy saving "Tube-in-tube" has reduced not only electricity costs but carbon emissions as well. Thus we are able to enjoy the benefits of both economic savings and environmental protection, a win-win result that we are very pleased to see."





Simon Wona **Executive Director** LHGroup



"Synergy Group cutting edge energy efficient and longer lasting Synergy "Tube-in-tube" lighting system was introduced and considered a feasible solution to our need."



Chief Executive Officer New Media Group



"As a big business and employer like RBS, we believe we have a duty to manage our environmental impacts and help save resources over the coming years. Setting up targets is a good opportunity for us to show that RBS is changing and that we recognise our responsibilities as a global citizen."



Head of Corporate Services APAC The Royal Bank of Scotland Group plc LON:RBS



"Prudential Hong Kong started a working committee in December 2009 to launch a series of environmental friendly initiatives. We encourage a culture of reduce-reuse-recycle to bring a greener future for next generation."





Derek Yung Chief Executive Officer Prudential Hong Kong 02378.HK



"We are committed to providing the market in the region with the best quality products and services to meet the ever-changing market environment in East Asia. However, corporations can no longer only care for business outcomes. As a large corporation, we at the Jebsen Group have embraced our corporate social responsibility, committing ourselves to ensuring that carbon management is a permanent issue in our group."





Helmuth Henning Managing Director Jebsen Group



"The professionalism, the fast response to our requests, the flexibility and mobility of your system and your staff all have impressed my team and myself. The Negawatt BOS Platform guarantees no loss in our building information and data. It is the kind of IoT (Internet of Things) technology that we implement in our daily operation system performance and energy signature. From the records of the past year, we confirmed that this system help us to save energy significantly upon our already very efficient oil free chiller system. You have convinced us that "mining" of energy saving opportunities work to an intensive and comprehensive levels."

Nelson Lo Assistant General Manager Property & Projects Management 00003.HK



"The three intelligent platforms, viz., BSM (Building Sustainable Manager), ERM (Energy and Resource Manager) and CAM (Chiller Analytic Manager) perform brillantly in terms of documentation and information management, energy accounting and auditing and chiller optimization operation analysis... the ERM is the most comprehensive visual dashboard and report generator for our energy metering systems they ever seen... Your tool will definitely help us to explore a deeper level of "mining" energy saving in the coming future."



Consultant
S.H.K. Real Estate Management Company Ltd.
00016.HK



"We have partnered with Synergy Group since 2009, Synergy delivers quality products in a professional manner."



Andrew D. Ross Managing Director Baker Tilly Hong Kong



"Sustainability and fulfillment of social responsibilities which help deter the climate change are the key areas being pursued and put into action."



李文達

Lee Man Tat Group Chairman Lee Kum Kee

