



COMPANY PROFILE



Founded in 1994, Allied Environmental Consultants Limited (AEC) is a Hong Kong based top-ranked and pioneering sustainability and environmental consulting firm with 26 years' experience, striving to provide one-stop on-demand services for our clients covering five business areas, including (a) Green and Healthy Building; (b) Acoustics, Audiovisual, Lighting and Theatre Planning; (c) Environmental Consultancy and Sustainable Design; (d) Green Finance, Sustainability Strategies and ESG; and (e) Smart and Green Internet of Things (IoT). Our holding company, Allied Sustainability and Environmental Consultants Group Limited (stock code: 8320), is the first listed sustainability and environmental consultancy service provider in Hong Kong.

Today, AEC is an award-winning sustainability and environmental consulting firm with an extensive portfolio spanning Hong Kong, mainland China and the Asia Pacific region. We strive to offer independent and consultancy services to our clients, positively transform communities and create a sustainable future for the world. AEC seeks to excel in innovation and sustainable design, honed by a well-defined set of core values. By focusing on continual development, we aim to earn the long-term recognition and commendation of our industry and clients.

OUR VISION

We strive to be the independent environmental consultant of choice to all our clients and a respected name in our industry.

OUR MISSION

Through achieving commercial success and full satisfaction for our clients, we seek to build a sustainable future for all the stakeholders in the community.



OUR FRAMEWORK



We develop efficient solutions that create value for our customers, while raising the bar on industry standards on service and delivery.

AEC and its staff prioritize ethical behaviour and do not tolerate bribery or corruption. Our safety culture targets zero harm to all.

Our focus on client-driven quality aims to ensure complete satisfaction while creating opportunities for our mutual long-term success.

Our people are the heart of our company. We nurture their continued personal growth by respecting and supporting their knowledge and experience.

Our greatest stakeholders are the environment and the local communities we work with. Together we strive to ensure these vital pillars benefit from our sustainable solutions.

OUR PEOPLE

AEC has over 50 dedicated staff with broad expertise in providing professional consultancy services to our clients. Our principals and professional team of experts comprise of qualified engineers and scientists with wide technical and managerial experience in different aspects of environmental engineering. They are additionally backed by an extensive complement of specialized instrumentation and computing facilities. New tools and ideas, together with the specialist resources of the company enable us to deliver appropriate designs that achieve sustainability for our clients and the wider community.

Grace Kwok



Chairman and Executive Director, AEC Group

BEng(Hons) FFHKIQEP FHKIOA MHKIEIA CAP GB Faculty BEAM Pro GBL Manager USGBC Faculty LEED Fellow LEED AP(BD+C) BREEAM AP

Ms Grace Kwok has 20 years' experience in working as an acoustics, environmental and sustainability consultant. She specializes in environmental impact assessment and built environmental studies for sustainable building design. As a member of HKGBC Green Building Faculty, BEAM Expert Panel and USGBC Faculty with qualifications including BEAM Pro, LEED Fellow, BREEAM AP and GBL Manager, she has the privilege to work on the earliest batch of BEAM, LEED, BREEAM and China Green Building Label certified building projects in Hong Kong. Other than being a green building expert, Grace is also an experienced acoustician and a GRI G4 Certified Sustainability Practitioner advising on sustainability strategies and providing Environmental, Social and Governance (ESG) consultancy services to listed companies.

Grace is a fellow member of the Hong Kong Institute of Acoustics, a founding fellow serving on the Board of Directors of the Hong Kong Institute of Qualified Environmental Professionals, a member of the Noise Control Appeal Board Panel of Environmental Protection Department, a member of Expanded Building Committee of Buildings Department as well as a member of Assessment Sub-Committee of BEAM Society Limited. She is the Chairperson of Construction Environmental Management of the Expert Panel of the BEAM Society Limited and also serves HKGBC's various standing committees, including Communications & Membership Committee and Green Labelling Committee. Besides, she is a member of the LEED Indoor Environmental Quality Technical Advisory Group and LEED Data Centers Advisory (China) Committee. Currently, she is the Chairman in Environment and Sustainability Committee of the Guangdong-Hong Kong-Macao-Bay Area Economic and Trade Association, President in Environmental Assessment Sub-Committee of the GHM Greater Bay Area Institute of Urban Architecture (Hong Kong), Expert Advisor of the inauguration of the Degradable Plastics Professional Committee of the All-China Environment Federation and Co-Chair of the Hong Kong Women Professionals & Entrepreneurs Association Environmental Sustainability Working Committee.

Dennis Wu



Vice Chairman and Executive Director, AEC Group

Mr. Wu Dennis Pak Kit has been re-designated as Vice Chairman and Executive Director since 1 July 2020. He was appointed as our non-executive Director on 16 November 2015 and has been providing advice on strategic development of the Group, and his additional new roles will help create a greater synergy between the Group's existing business segments, including Green Finance, Environmental, Social and Governance ("ESG") Advisory as well as Smart & Green Internet of Things ("IoT"), so as to further expand our Group's customer base and extend geographical coverage to the Asia-Pacific region.

Mr. Wu has 20 years of experience in finance industry. He worked as an accounting supervisor at Techno Group, a company engaging in manufacturing of plastic moulds for home appliances, in Hong Kong from April 1998 to June 2000. From September 2000, he worked as a staff accountant at the Assurance and Business Advisory Services Department of Arthur Andersen (which was acquired by PricewaterhouseCoopers since July 2002) and he left the firm as a senior associate in April 2003. He was the executive director in the finance department of CITIC Capital Holdings Limited, a company focusing on alternative asset management including private equity, real estate, mezzanine venture capital and marketable securities from April 2003. During the period of 1 July 2017 to 30 June 2020, he was appointed as the executive director in the principle investment department of the same company. He is also a director of Hong Kong Private Equity Finance Association which aims to promote the private equity and venture capital industry in Hong Kong. Mr. Wu received a certificate on training from China Green Building Council in March 2015.

Mr. Wu graduated from the University of Southern California in the United States with a bachelor's degree in Business Administration, majoring in Finance, in December 1996. He obtained a master degree of Accountancy from The Chinese University of Hong Kong in November 2001.

Lincoln Fung



Associate Director, AEC Group / Acoustics, Audiovisual and Lighting Design Leader

MSc (Hons), BEng (Hons), MHKIOA

Mr. Lincoln Fung is our Associate Director, who has 26 years of experience in the building construction industry. Lincoln has both design and management skills in a diverse range of large-scale projects including performance venues, retail, sport facilities, theatres, schools, critical facilities, convention centres, leisure and entertainment venues, commercial buildings, residential buildings, industrial buildings, hotels, and transportation terminals and so forth. Lincoln is principally taking charge of supervising the acoustics, lighting and audio-visual team of AEC Group and is responsible for design management, project execution, business development and strategic planning of the Group.

James Wong



Honorable Advisor, AEC Group

BSc, MSc, PhD, CEng, RPE, REA, MIMechE, MCIBSE, MIOA, MHKIOA, MHKIEIA, MIFIMA, MASOS, FHKAASST, MIOE, MICTA, CTBUH, MSLL, BEAM Pro, GB Faculty

James is a Chartered Engineer and acoustics scientist. Educated at Heriot-Watt University (Scotland) and having worked in Hong Kong, the United Kingdom, and throughout the Asia-Pacific region, he is one of the nation's experts in acoustic research. James is also the Founder and Chairman of the Hong Kong Institute of Energy.

Kenny Siu



Senior Advisor, AEC Group

Dr. Kenny Siu was awarded a Professional Diploma in Building Surveying from Hong Kong Polytechnic University, a Master of Business Administration degree from the University of South Australia in and a PhD in Economics from Jiang Xi University of Finance and Economics. He was admitted as a chartered member of the Chartered Institute of Housing and a professional member of the Royal Institution of Chartered Surveyors. Dr. Siu has over 30 years of experience in sales and marketing, project management and consultancy in the property industry. He has the experience of employment with a number of major property developers, including Shui On Properties Limited, Harbour Ring Property Development Limited (now known as China Oceanwide Property Sino Limited), SIIIC Investment Company Limited and Hsin Chong Construction Group. In 2009, Dr. Siu established Kenny Siu Surveyors & Co., being a local real estate surveying firm in Hong Kong, in which he is now working as a director and consultant specialising in project finance and development study. Dr. Siu has been appointed as an Independent Executive Director of the listed company Unitas Holdings Limited (Stock Code: 8020). He has also been appointed as a visiting professor of Jiangxi University of Finance and Economics.

OUR PROFESSIONAL TEAM



Green Building

- BEAM Professional (BEAM Pro)
- LEED Fellow
- LEED Accredited Professional (LEED AP)
- BREEAM Accredited Professional (BREEAM AP)
- BREEAM In-Use Assessor
- China Green Building Label (GBL) Manager
- WELL AP
- HKGBC Green Building Faculty



Sustainability and Environmental Consultancy

- Member of Hong Kong Institute of Qualified Environmental Professionals Limited (HKIQEP)
- Member of Hong Kong Institute of Engineers Environmental Division (HKIE)
- Member of Hong Kong Institute of Environmental Impact Assessment (HKIEIA)
- Member of The Society of Environmental Engineers (SEE)
- Member of Chartered Institution of Water and Environmental Management (CIWEM)
- Infrastructure Sustainability Accredited Professional (ISAP)



Acoustics, Audio-Visual and Lighting Design

- Member of Hong Kong Institute of Acoustics (HKIOA)
- Member of Institute of Acoustics UK (IOA)
- Professional Member of International of Lighting Designers (IALD)
- Member of Acoustical Society of America (ASA)



ESG

- Certified Carbon Auditor Professional (CAP)
- Certified GRI G4 Practitioners, Global Reporting Initiative (GRI)



Other Professional Qualifications

- Registered Energy Assessor (REA)
- Chartered Engineer (CEng)
- Registered Professional Engineer (RPE)
- Member of Institution of Mechanical Engineers (IMechE)
- Member of The Chartered Institution of Building Services Engineers (CIBSE)
- Member of The Association of Energy Engineers (AEE)
- Member of Council of Tall Buildings and Urban Habitat (CTBUH)
- Member of Association for Project Management, UK (APM)

OUR CAPABILITIES

Green & Healthy Buildings

- BEAM Plus
- Leadership in Energy and Environmental Design (LEED)
- China Green Building Label (GBL)
- Building Research Establishment Environmental Assessment Method (BREEAM)
- WELL Building Standard
- Fitwel
- CEEQUAL
- IS Rating

AEC offers the most comprehensive and cost-effective options for developers intending to enhance environmental performance and sustainability of their buildings that create long-term benefits for its stakeholders and the environment.

We have provided consultancy services in support of green building certifications for an aggregate site area of nearly 1 million sq.m. We are currently involved in more than 100 BEAM Plus and LEED projects in Hong Kong. Some of our projects have obtained Green Building Award and Quality Building Award.

Our projects cover (i) residential buildings including public and private housings; (ii) commercial buildings including office buildings, plaza, data centre and mixed usage building; and (iii) public usage building and infrastructure including academic buildings, government complex, district cooling system, football pitch, public library, public transport interchange, hospital and swimming pool, etc.



[One, Two & Three Exchange Square and the Forum](#)
Grand Award (2019)

[SKYPARK](#)
Merit Award (2019)

[International Commerce Centre](#)
Merit Award (2014)

[Hang Seng Management College](#)
Finalist (2014)

[Lime Stardom](#)
Finalist (2014)

[Long Ching Estate](#)
Grand Award Winner (2014)

[Stanley Plaza](#)
Green Building Award (2014)

[Siu Sai Wan Complex](#)
Grand Award Winner (2012)

[Double Cove](#)
Merit Award (2012)

[39 Conduit Road](#)
Finalist (2012)

[ICAC Headquarters](#)
Merit Award (2008)

[Double Cove](#)
Grand Award for Hong Kong Residential (Multiple Buildings) Category (2016)

[Centennial Campus, The University of Hong Kong](#)
Merit Award for Non-Residential Category (2014)

[Victoria Swimming Pool Complex](#)
Merit Award for Non-Residential Category (2014)

[International Commerce Centre](#)
Quality Excellence Award Winner (2012)
Grand Award Winner for Non-Residential Category (2012)

[39 Conduit Road](#)
Grand Award Winner for Hong Kong Residential [Single Building] Category (2012)

[ICAC Headquarters](#)
Merit Award for Sustainability (2008)
Finalist for Non-Residential Category (2008)

Our Achievements in Green Building Projects



Our Key Projects

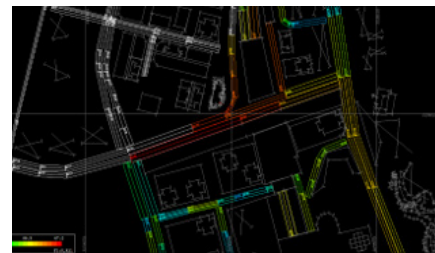


Environmental Consultancy and Sustainable Design

- Environmental Impact Assessment (EIA)
- Noise Impact Assessment
- Air Quality Impact Assessment
- Land Contamination Assessment
- Drainage and Sewerage Impact Assessment
- Water Supply Impact Assessment
- Landfill Gas Hazard Assessment
- Quantitative Risk Assessment
- Ecological Impact Assessment
- Preliminary Environmental Review
- Environmental Assessment Support on Town Planning Applications
- Environmental Monitoring and Audit (EM&A)
- Sustainable Building Design (including Daylight and Natural Ventilation Study, Building Permeability Performance, Air Ventilation Assessment as well as Microclimate Study)
- Overall Thermal Transfer Value Study
- Building Façade and Energy Study
- Carbon Audit
- Independent Environmental Checker
- Environmental Due Diligence
- Expert Witness

AEC has undertaken a number of built environment studies for prestigious development projects and provided sustainable design solutions to Architects in Hong Kong. We are dedicated to provide expert advice, research and practical support on all aspects: from strategy and policy, through to programme development, and project implementation. We are committed to providing clients a high quality service that meets their specific requirements through integrated multi-disciplinary teams, or specialist inputs.

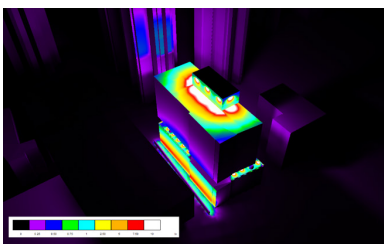
Our assignments extend from inception, initial analysis and feasibility, through to design and detailed development, and to implementation and management. Our approach is to support the client at every stage, and to add value through a holistic approach and a wider perspective that places us at the leading edge of issues such as urban regeneration, sustainable development and integrated planning.



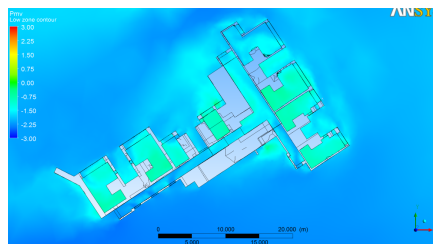
Road Traffic Noise Model



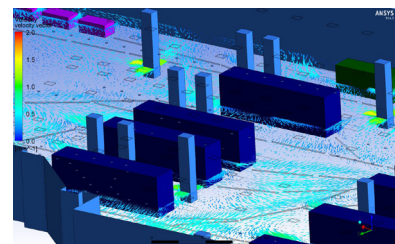
On-site Noise Measurement



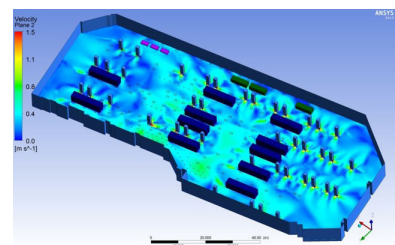
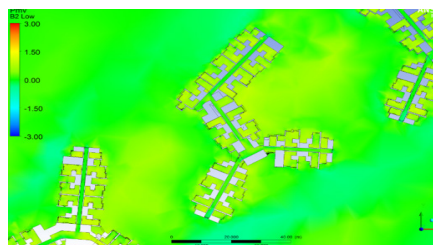
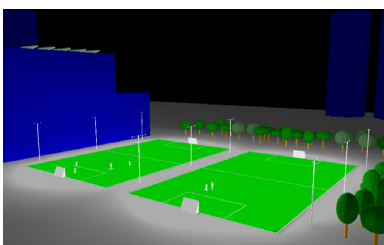
Exterior Lighting Simulation



Thermal Comfort Study



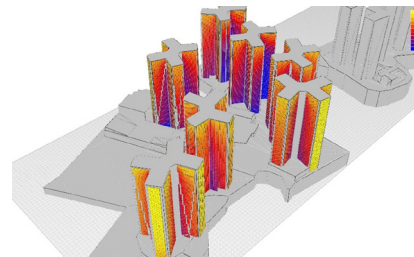
CFD Model for Public Transport Interchange



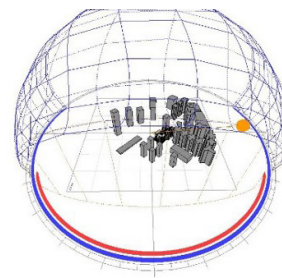
AEC is one of the best equipped environmental and acoustic design consultancy in Hong Kong. In order to assist the architects and engineers to test their ideas quickly and reveal environmental performance of materials and products, we have installed comprehensive environmental and acoustics modeling softwares suitable for use in different situations. They include ISCST3, CALINE 4, Safetimicro from DNV, MicroTunnel from MicroCFD, 'Raynoise' from LMS Belgium for geometrical acoustics ray tracing analysis, 'Sysnoise' for structural borne noise analysis, 'SEAD' for statistical energy analysis in sound transmission studies, 'ANSYS' for vibration studies, 'TROX' for building services system noise predictions and 'Acoucadd' for small room acoustics analysis.

Our capability in Computational Fluid Dynamics (CFD) simulation by FLUENT, daylight and thermal modeling have provided us the leading edge in microclimate and built environment study. AEC have a very experienced team of environmental scientists, acousticians and modelers and, a well equipped Technical Support Section for all on-site environmental, noise and vibration survey as well as Indoor Air Quality (IAQ) measurements.

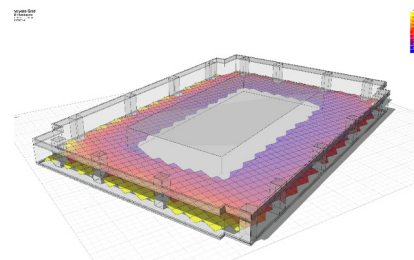
AEC has amassed an extensive library of rare books and graphics on environmental engineering, building constructions and architectural acoustics. The firm has also developed a collection of acoustic products for use in making comparisons as new designs are evolved.



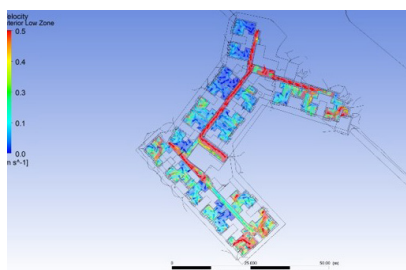
Solar Irradiation Analysis



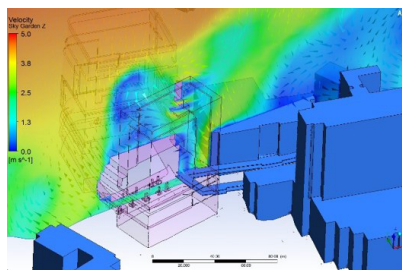
Natural Daylight Access Model



Indoor Daylight Access Simulation



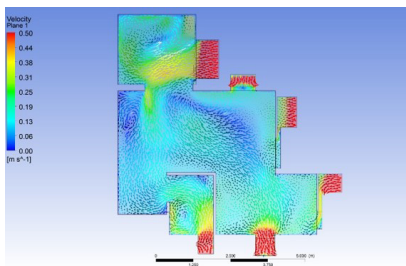
Indoor Ventilation Performance



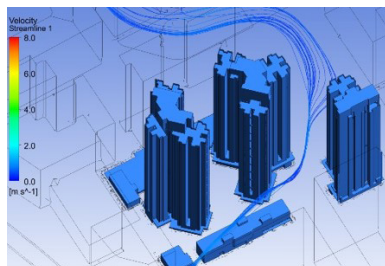
Outdoor Ventilation Performance



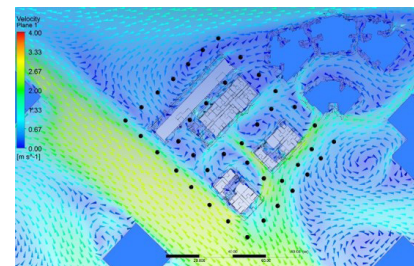
Overshadowing Analysis



Natural Ventilation Study for Acoustic Window



Air Pollutant Emission Path Analysis



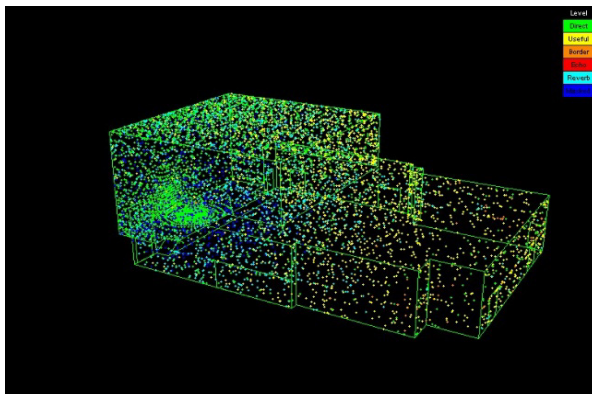
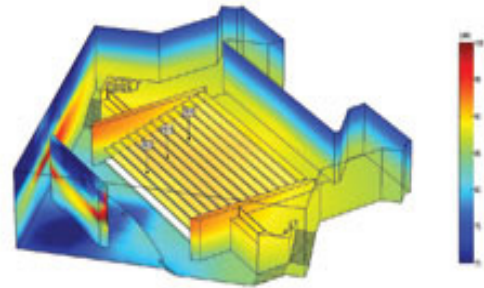
Wind Amplification Assessment

Acoustics, Audiovisual, Lighting and Theatre Planning

- Architectural and Building Acoustics Design
- Noise and Vibration Control System Design
- Speech and Musical Reinforcement Systems
- Audio-visual and Feature Lighting Performance
- Expert Witness
- Acoustics Testing and Noise Measurement
- Detailed Design and Construction Supervision of Acoustics Treatment and Noise Mitigation Measures
- Outdoor Event Noise Monitoring and Mitigation Measures
- Architectural and Façade Lighting System
- Stage Lighting System
- Theatre Planning and Stage Equipment System

Acoustics

Proper acoustic design ensures the high quality of desired sounds as well as the isolation of unwanted sounds from some space or environment. Architectural form and mechanical logistics must be considered with acoustics for the benefit of listeners, occupants and performers. This holds true for all spaces, not just those with which sound quality is primarily associated. AEC has provided solutions by ensuring the sound quality of concert and lecture halls, noise isolation privacy for residences and office spaces. AEC possesses a team of acousticians with a depth of project experience to draw from and a diverse set of skills like simulation, computation and design to navigate this science.



Acoustic Modelling (Odeon)



Wah Yan College Rooftop Acoustic Louvre

Audiovisual

Audiovisual systems are among the drivers of the multimedia technology trend we are seeing become more and more important in the 21st Century. The general evolution of technology has increased the capabilities of AV systems and has facilitated more specialized projects. Now more than ever, artists, theatre owners and business leaders can see their visions come to life using complex and large scale systems. As these systems grow in scale and depth, so to do the intricacies of designing them. AEC's AV team can help build these systems from the schematic stage to the integration stage and enrich and a patron's – and owner's – experience.



Shrewsbury International School

Lighting

Lighting design is for people, their comfort and their enjoyment of the spaces in which they live, so it must provide smart, sustainable and affordable solutions and be considerate of our environment. AEC offers a comprehensive lighting design service, from initial strategic advice and concept development, through to construction and on-site support. Our electrical lighting services include architectural lighting, façade lighting and landscape lighting design. AEC's lighting team is also skilled in daylight modelling which, by working closely with architects, enhances natural light distribution through building interiors by reflecting and diverting different colours to materials.



Beijing Garden Hong Kong Pavilion



Moganshan Zhejiang Province Joe Lalli Hotel Resort



Sports Expo

Theatre Planning

Theatre Planning allows the implemented Acoustic, AV and Lighting measures to be received by the individual. It smooths the service of front-of-house planning and eases the technical aspects of back-of-house and maintenance. Theatre planning is an extensive, logistical practice which combines many disciplines. AEC's team is proficient in these and can provide solutions to functional planning of public FOH areas, BOH circulation, machinery, fly tower and rigging systems, stage engineering, communication infrastructure, seating and lighting sightline studies and many more technical considerations.



The Education University of Hong Kong



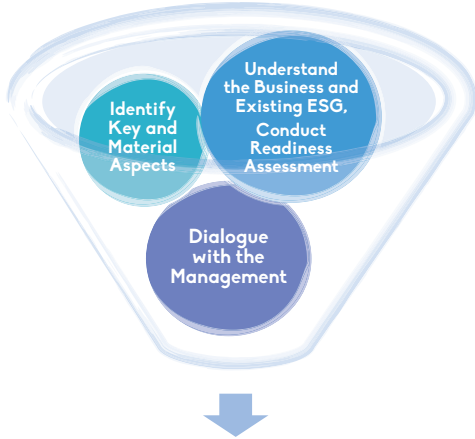
Yau Ma Tei Theatre



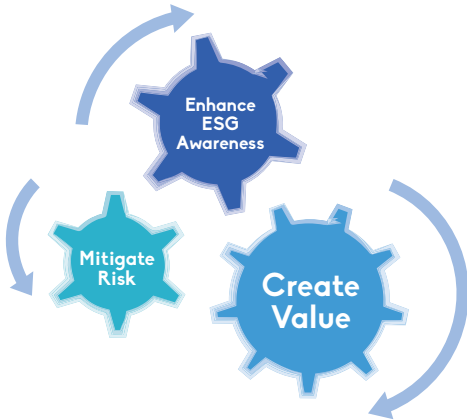
Clockenflap 2016-2018

Green Finance, Sustainability Strategies and ESG

Our ESG Approach - Environmental + Business Consultancy



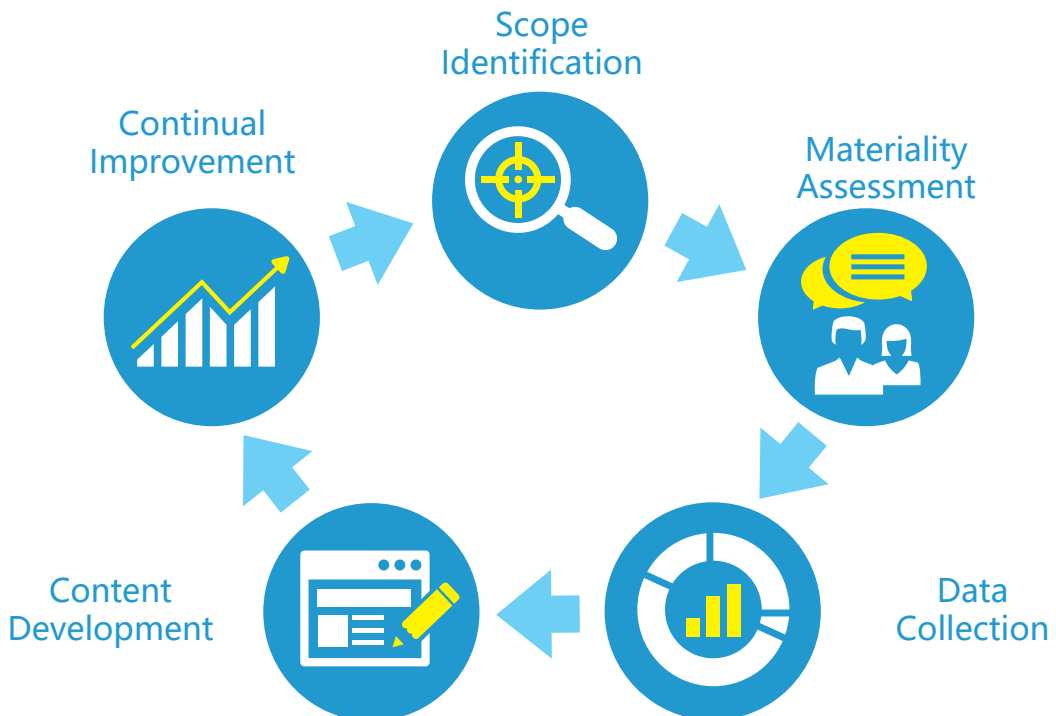
Comprehensive Recommendations and Solutions



Our ESG Services:

- Assess the readiness of ESG reporting and suggest areas for improvement
- Formulate ESG disclosure plan and communicate with auditors
- Develop and enhance ESG strategy and reporting
- Establish and enhance environmental risk managing system and monitoring database
- Conduct ESG training or awareness sessions
- Provide assurance services upon request on specific areas

Sustainability Reporting Process





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