Capability Statement

AEE SUSTAINABILITY ENGINEERS

COMPANY OVERVIEW

Asian European Engineering Ltd. (AEE) is an award-winning sustainability engineering consultancy based in Hong Kong with operations in greater China, South-east Asia, Middle East and Eastern Europe.

We are equally proficient in optimizing new buildings, existing buildings and interior fit-out projects. AEE provides analyses and answers far beyond the scope of a standard consultant, allowing clients to make informed decisions early in the project and save capital and operational costs. We provide one-stop shop consultancy for LEED, WELL, BEAM Plus and other green building certifications including design enhancement and analysis, building physics modeling, code compliance, site and construction coordination, commissioning and corporate sustainability.

What sets us apart from the competition:

- Our People
- Our Philosophy
- Our Adaptability to Changing Technology

MAIN AREAS OF FOCUS

- Green Building Certification (LEED, WELL, BEAM Plus)
- Building Services Design Consultancy
- Sustainability Consultancy
- Energy Efficiency Services
- Existing Buildings Optimization
- Indoor Air Quality Monitoring and Enhancement
- Building Physics (Energy Modelling, CFD Modelling, Daylight and Lighting Modelling, LCA, Acoustic Modelling, etc.)
- Commissioning Authority and Commissioning Management
- IT and Building Automation Design and Installation
- Corporate Sustainability

QUICK FACTS

Experience:

- Experience in design of building services in multiple countries / territories and sectors
- 300+ new construction projects

Sectors:

- Residential
- Commercial
- Retail
- Hospitality
- Industrial
- Lifestyle
- Infrastructure
- Government

Awards:

- Green Building Award 2014 Finalist for Existing Buildings (HKJEBN Centre)
- 2012 winner of the PassiveHouse International Design Competition
- 2nd Prize at Sustainable Architecture 2020-8

Contact Us

Asian European Engineering Ltd
11/F, Unit 1102, 88 Gloucester Road
Wan Chai, Hong Kong

P: (852) 3504 2590
F: (852) 3572 0031
www.aee-ltd.com

Contact

Rumen Yordanov
rumen@aee-ltd.com
(852) 3504 2590

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AEE LOCATIONS

AEE serves its clients from the following locations:

DIFFERENTIATORS

AEE delivered a number of firsts including:

- The 1st LEED v4 ID+C Hospitality Gold project in the world – SLEEEP
- The 1st education LEED EBOM Gold project in Asia – HKU, Chow Yei Ching Building
- AEE's core team members delivered the 1st LEED EB Gold Certified Project in HK – 2 IFC

AEE's senior management holds seats at:

- LEED International Roundtable Member
- USGBC Faculty
- Platinum: a LEED Consortium Chair of Technical Committee
- Environment and Energy Business Council under European Union Chamber of Commerce Hong Kong

OUR CLIENTS INCLUDE

westKowloon 西九文化區

香港大學 THE UNIVERSITY OF HONG KONG

香港會議展覽中心 Hong Kong Convention and Exhibition Centre

恒隆地產 HANG LUNG PROPERTIES

L&O ARCHITECTS

OH+K

華懋集團 Chinachem Group

瑞安集團 SHUI ON GROUP

MONCLER

NESPRESSO

樓上

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BUILDING SERVICES DESIGN

We are offering end-to-end consultancy services which not only focus on the technical engineering works but also on completing the full circle of the project including:

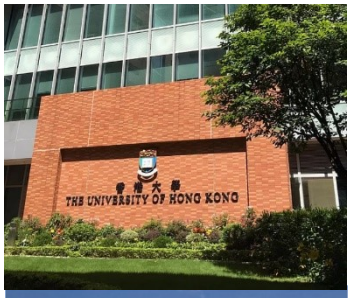
- Site survey and landlord services provision verification
- MEP design development
- Integration of sustainability criteria in the design
- Passive design development
- Integration of building physics in the design
- Tender development and evaluation
- Advanced equipment selection for optimized energy performance
- Periodic site work verification and defect list report
- Testing and Commissioning verifying the quality of the delivered systems
- Handover and operational monitoring and enhancement
- Ongoing commissioning and monitoring-based commissioning

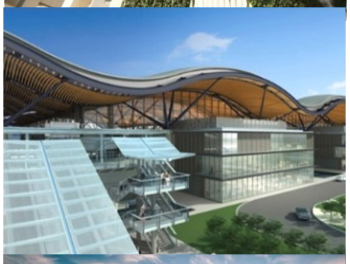
SUSTAINABILITY DESIGN AND CERTIFICATION

We provide a one-stop shop package for sustainable design, operation and certification of properties and organizations:

- Sustainability design provisions
- Building certification:
  - LEED
  - WELL
  - BEAM Plus
  - RESET
- Environmental Impact Assessment
- Environmental Monitoring
- Energy and Carbon Audits and Optimizations
- Water and Waste Audits and Optimization
- Corporate Sustainability Strategy and Reporting

OUR PROJECTS INCLUDE





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BUILDING PHYSICS

We provide detailed computational analysis, far beyond the scope of traditional design, achieving optimized building performance in terms of energy, indoor environment quality, ventilation, lighting, etc.

Our expertise covers a wide range of services including:

- Design Energy Modeling and Operational Energy Analysis
- Façade Analysis and Solar Modeling
- Computational Fluid Dynamics (CFD)
- Daylight Modeling
- Interior Lighting Modeling
- Light Pollution Modeling
- Noise and Acoustics

EXISTING BUILDING OPTIMIZATION

AEE offers a wide range of services and expertise in the area of existing building optimization. Our specialists work with both: top management and Facility Management and Operations teams to enhance the building operation practices and achieve the building's full potential.

Our services include:

- Calibrated energy modeling and operational benchmarking
- Energy audits and operational audits (EMSD, ASHRAE or customized)
- Measurement and verification
- Monitoring-based commissioning
- Data analytics and continuous improvement
- Indoor Air Quality monitoring and improvement

The benefits for the property are:

- Reducing operating costs
- Increasing occupancy comfort and satisfaction
- Enhancing management policies and procedures
- Enhancing property's sustainability and efficiency and
- Increasing overall asset value.

OUR PROJECTS INCLUDE

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