



Total Energy Efficiency Assurance Solution

Green and Sustainability

KILOWATT
HOURS

Building Energy Efficiency Measurement and Verification Service

Intertek provides the Measurement and Verification (M&V) service to help you achieve your **carbon reduction** and **energy saving target**. Delivering **professional and advisory consultancy** and **report evidence** on energy efficiency facilities upgrades including the lighting and air-conditioning system.

Adding value to your Sustainability Road

- Can **fulfill regulatory challenges** on Building Energy Efficiency Ordinance (e.g. **BEEO**) in implementation actions

- Able to achieve national carbon reduction and energy saving target (e.g. target of Hong Kong Government 50-60%)
- **Easily reporting** to investor on new facility's performance and demand result of energy saving as well as the reporting process on company **energy management system** and the policy

Internet of Things (IoT) adopted in Building Management System (BMS)

What is IoT?

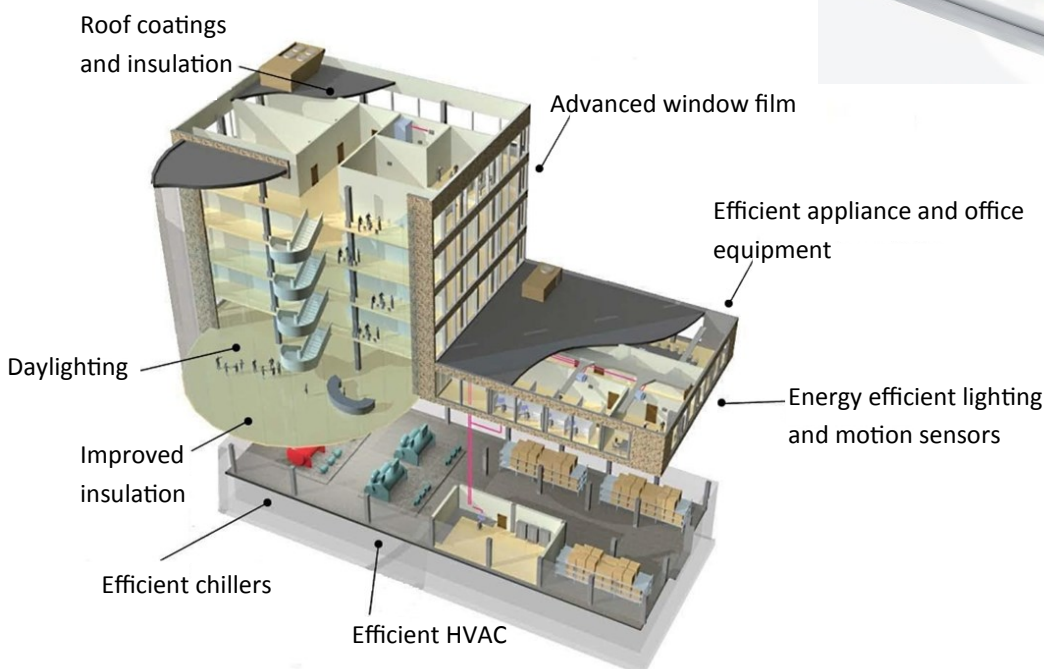
- Inter-networking of physical devices and other items embedded with electronics, software, sensors, actuators, and network connectivity
- These objects enable to collect and exchange data by different technologies, i.e. Wi-Fi, Bluetooth, ZigBee, etc.
- No human-to-human or human-to-computer interaction required

Intertek makes it happen when Energy Management Solutions meets IoT.

Internet of Things (IoT) offers infinite possibilities in building energy efficiency. Our smart and intelligent solutions are:

- **Real-time** smart data monitoring
- Advanced analytics capabilities of big data
- Provide decision making for **optimized** usage of energy
- Achieve energy saving and cost reduction
- Equip with **cyber security solutions** to secure protocols for communication

The data transmit can be:



Green Building & Environmental, Carbon and Energy Consultation Service

Intertek provides the project management service including energy review, energy simulation in building design and also document review services for the BEAM Plus Labelling Scheme. We are providing two steps of advisory services:

Pre-assessment Service

To review your building situation and your on hand materials, provide gap analysis in achieving the rating and advise alternative solutions of supplementary testing and measures.

Helpdesk Service for BEAM Plus Application

To consolidate the materials for the requirements of application and offer technical guidance on any application issues.

Green Building Labelling



Environmental, Social and Governance (ESG) Advisory Service

Intertek conducts carbon/energy audit, and below approach steps in ESG advisory service:

1. Provide gap analysis in existing materials
2. Offer awareness training for staff
3. Collect stakeholder concerns by stakeholder engagement
4. Materiality assessment to find out the significant impacts
5. Consolidate existing environmental and social information
6. Provide data review based on environmental KPI and result from the following 2 items
7. Deliver energy audit for energy efficiency measures, energy analysis and improvement plan review
8. Conduct carbon audit in order to collect carbon emission data
9. Report review based on HKEX ESG reporting as well as other sustainability standards, e.g. GRI standard



Audit and Certification Service for Environmental and Energy Management Systems

Intertek provides the verification service and issue the certificates for both systems —

- Environmental Management System (EMS) ISO 14001:2015 and
- Energy Management System (EnMS) ISO 50001:2011.

We can also provide the energy review, document preparation, training courses and system build-up on EnMS.



ONE-STOP SERVICE:

With Intertek's network of offices and status of certification body, we can offer the support of project coordination and arrange verification schedule as well as issue the certificate.



FOR MORE INFORMATION

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