

Building Information Performance 2025

7 August 2025

Closing Speech

Ir Raymond POON, JP, DEMS

Opening

Good afternoon, Ir. Peter WONG, Mr. K H LEE, distinguished guests, esteemed speakers, talented young engineers, ladies and gentlemen.

It is my great honor to deliver the closing remarks for today's insightful seminar on "Building Information Performance 2025." I would like to express my deepest gratitude to CIBSE and HKIE for co-organizing this remarkable event. This seminar has been an invaluable platform for sharing knowledge, collaboration, and staying at the forefront of technological advancements for sustainable development

Key Insights from Today's Seminar

As the pace of technological progress accelerates, staying ahead demands continuous learning and innovation. Today, we have had the privilege of hearing from visionary experts who shared transformative insights on IoT applications—ranging from AI-driven energy optimization to digital twin technologies and next-generation smart building solutions. These discussions have clearly demonstrated how innovation is reshaping our industry on a global scale, and how emerging technologies are redefining the way we design, manage, and optimize the built environment.

Alignment to Global Innovation and EMSD's Commitment

According to the latest reports by the International Energy Agency (IEA), a substantial portion of the CO₂ emission reductions needed by 2050 will depend on technologies that are currently in the demonstration or prototype phase. Many of these innovations are not yet commercially viable, underscoring the critical need for ongoing research, development, and investment.

Even among mature solutions — such as renewable energy and energy management systems — there remains immense potential for breakthrough innovations. The message is clear: We must embrace innovation as a core element of our strategies, ensuring we are prepared to leverage new technologies as they emerge. In fact, the pace of technological change consistently exceeds our expectations.

At EMSD, we are fully committed to accelerating the adoption of innovative technologies — including IoT and AI in building services systems. In recent years, AI technology has rapidly evolved, with many practical applications already being deployed and industrialized.

In line with this trend, the EMSD is actively promoting E&M digitalisation and AI integration to drive energy savings and carbon reduction. Currently, we have connected the E&M equipment data from approximately 400 government buildings to our central digital monitoring center. Leveraging AI and big data analytics, we aim to enhance operational efficiency and environmental performance.

One such example is our AI-powered central air conditioning energy optimization system, "ChillStream", which predicts cooling demand and automatically adjusts settings to continuously optimize energy performance. At its current stage, it achieves energy savings of up to 5%. This initiative exemplifies our commitment to enabling smarter, greener buildings.

Furthermore, we are fostering collaboration among industry leaders, researchers, and young professionals to integrate cutting-edge technologies into smart and energy-efficient buildings. Under our E&M AI Lab, we launched two Practice Notes on AI-ready Building Informatics this year - one focusing on data quality, and the other on semantic modeling - to promote best practices and drive industry-wide progress.

Empowering the Next Generation of Engineers

Achieving carbon neutrality by 2050 is a long and challenging journey. Our next generation of engineers will also play important roles for the future of smart buildings and IoT. At EMSD, we are deeply committed to nurturing future talents through different training programmes and motivation schemes, providing platforms for young professionals to lead, innovate and drive sustainable transformation.

To all young engineers here today: your passion, creativity, and eagerness to embrace emerging technologies are the driving forces behind changes for sustainable future. Continue to push boundaries, collaborate across disciplines, and shape the future of our industry. Your remarkable contributions, showcased in the Young Engineer Competition, are already making a significant impact. You are leading the way towards a greener and more sustainable world.

Closing

Today's seminar has been a resounding success, thanks to the inspiring presentations and the active engagement of every participant here.

I would like to reiterate that: Traditional technologies alone will not be enough to bring us to carbon neutrality. We need bold innovation, strategic partnerships, and the brilliance of our engineers, in particular the younger generation to accelerate decarbonization. By joining hands — government, industry, and emerging talent — we can build a smarter, greener Hong Kong.

Thank you once again for your active participation. I look forward to seeing you at future events as we continue this exciting journey together.

Have a wonderful day ahead!

[Around 700 words, about 5.5 minutes]