



Tutorial for Registration - Technical Seminar on Green Data Center - Trends and Technologies for Design, Installation, Monitoring and Assessment for Data Center Performance, The Success Stories and Some Common Pitfalls [(co-organised by the ASHRAE Hong Kong Chapter (ASHRAE-HKC) and BEAM Society Limited (BSL))]

Please directly proceed with Step 4 if you already have an existing account at BSL.

1) Access to the BSL's Online Training Portal.

<https://portal.beamsociety.org.hk/>

2) Click “**Register for Online Services**” and register for a free portal account as a “General Member” by filling in all the required information.



General Member
(for registration of BEAM Pro / BEAM Affiliate Training & Examination / BSL Membership / CPD courses)

Continue

3) Your account will be approved by the BSL in 2 calendar days.
An email with login password will be sent out to your mailbox.

4) Login to BSL's Online Training portal.

5) Find the course and click the “**Register**” button at the right-hand side of the page.

CPD Training(s)

Training Type	Training Code (sort by letters: Z -A) or by language	Flyer	Training	Speakers	Training Date (live) (sort by date: latest)	CPD Recognition for BEAM Pro (sort by number: highest)	Fee (HK\$)				Register
							BEAM Pro BEAM Affiliate & BSL Member (For CPD course) (sort by price: highest)	General Member (sort by price: highest)	SO Member (sort by price: highest)	CO Member (sort by price: highest)	
LIVE	M-2024-0108 (Language: English)		Technical Seminar on Green Data Center - Trends and Technologies for Design, Installation, Monitoring and Assessment for Data Center Performance, The Success Stories and Some Common Pitfalls Achieving a Green Data Center. More than a Good Design Is Needed The concept of a Green Data Center is difficult to perceive with a building full of computers consuming electricity. So the goal for a green data center is to minimize the energy consumed by the facility that does not go into computation	Ir Emily Wong Manager (Project Assessment) of BEAM Society Limited Mr Chris Wong Associate Director - Facility Management, Navitech Technology Mr Jim Vallart Commissioning Program Manager, Mortenson	8 Jan 2024	2.5	\$250.00	\$350.00	\$300.00	\$250.00	Register

After completion of step 5, please refer to your membership type as below and proceed with the required steps.



**a) Member Type –
BEAM Pro / BEAM Affiliate Member /
Non-Member of ASHRAE-HKC / Non-Associate or Ordinary of BSL**

P.S. If a member of ASHRAE-HKC/ Supporting Organisation is a BEAM Pro / BEAM Affiliate Member at the same time, the member is also categorised in this member type.

You will be directed to the payment page right afterwards as follows. Please choose your desired payment method (Cheque / Credit Card) and complete the payment in order to finish the course registration.

Payment Information

Name:

E-Mail:

Title: Technical Seminar on Green Data Center - Trends and Technologies for Design, Installation, Monitoring and Assessment for Data Center Performance, The Success Stories and Some Common Pitfalls

Course Type: Live

CFD Recognition: 2.5 CPD hours for BEAM Pro/BEAM Affiliate

Description: **Achieving a Green Data Center: More than a Good Design Is Needed**
The concept of a Green Data Center is difficult to perceive with a building full of computers consuming electricity. So the goal for a green data center is to minimize the energy consumed by the facility that does not go into computing power. To achieve this reduction the site selection, facility program, design, installation and operations all play an equal role. Jim will discuss some current trends and design strategies for high performance in various climates and he will also present some keys to maintaining the edge of a high performance site such as Cx at turnover, seasonal testing, operations plans for changing IT loads, EBCx as operations change, Cx of added equipment during the life of the data center and most importantly - annual monitoring and operational adjustments. These concepts, success stories and some common pitfalls will be presented.

Data Center Immersion Cooling System
Immersion cooling is a highly efficient cooling solution that involves submerging servers in a non-conductive fluid. This fluid absorbs the heat generated by the servers, allowing for highly efficient cooling. It does not only enables data center operators to meet the increasingly demanding heat dissipation and power requirements for IT infrastructure today, it can significantly reduce energy consumption by 45% compared with traditional air-cooling systems and improves the PUE to 1.09 or even lower. Chris will share with us why Immersion Cooling is so important for a data center, how does it work and the challenges for Immersion Cooling adoption. He will also present the details of the first of this cooling system for data center in Hong Kong.

Assessment Guidelines and Best Practices for Green, Sustainable, Reliable, and Energy-Efficient BEAM Plus Data Centres
Sustainable data centres prioritise environmental responsibility, resource conservation, cost efficiency, regulatory compliance and stakeholder expectations. By adopting sustainable practices, data centres can minimise their environmental impact, optimise resource utilisation, reduce costs, enhance their reputation and foster innovation in the industry.
This presentation will provide comprehensive insights into planning, design, construction and operation of a green, sustainable, reliable and energy-efficient Data Centre in accordance with BEAM Plus Data Centre assessment tools, covering topics such as site selection, building design, minimisation of operational materials and waste, energy efficient equipment selection, cooling systems, renewable energy integration, water conservation, human environmental quality and operational best practices. Participants will gain knowledge about the key principles, strategies and technologies involved in creating an environmentally friendly and energy-efficient data centre while ensuring reliable and high-performance operations.

Amount(HKD): \$350

A confirmation email will be sent out by the BSL in around 2 business days.



**b) Member Type –
ASHRAE-HKC Member**

After clicking the register button, a pop-up box will show up asking if you are a **co-organiser's member** shown as follows, please input **"ASHRAE2024"** as the code for this event and click **"Yes"** to proceed with the registration.

The image shows a 'Register Course' pop-up window. At the top, it says 'Register Course' with a close button (X). The main text asks: 'Are you the co-organiser's member for this CPD course?'. Below this, it says 'If yes, please Enter CO Code:'. There is a text input field containing 'ASHRAE2024'. At the bottom, there are two buttons: 'Yes' and 'No'.

You will be directed to the payment page right afterwards as follows. Please choose your desired payment method (Cheque / Credit Card) and complete the payment in order to finish the course registration.

The image shows a 'Payment Information' page. It contains the following details:

- Name:
- E-Mail:
- Title: Technical Seminar on Green Data Center - Trends and Technologies for Design, Installation, Monitoring and Assessment for Data Center Performance, The Success Stories and Some Common Pitfalls
- Course Type: Live
- CPD Recognition: 2.5 CPD hours for BEAM Pro/BEAM Affiliate
- Description: Achieving a Green Data Center: More than a Good Design Is Needed

The description text continues: "The concept of a Green Data Center is difficult to perceive with a building full of computers consuming electricity. So the goal for a green data center is to minimize the energy consumed by the facility that does not go into computing power. To achieve this reduction the site selection, facility program, design, installation and operations all play an equal role. Jim will discuss some current trends and design strategies for high performance in various climates and he will also present some keys to maintaining the edge of a high performance site such as Cx at turnover, seasonal testing, operations plans for changing IT loads, EBCx as operations change, Cx of added equipment during the life of the data center and most importantly - annual monitoring and operational adjustments. These concepts, success stories and some common pitfalls will be presented."

Additional text includes: "Data Center Immersion Cooling System", "Immerison cooling is a highly efficient cooling solution that involves submerging servers in a non-conductive fluid. This fluid absorbs the heat generated by the servers, allowing for highly efficient cooling. It does not only enables data center operators to meet the increasingly demanding heat dissipation and power requirements for IT infrastructure today, it can significantly reduce energy consumption by 45% compared with traditional air-cooling systems and improves the PUE to 1.09 or even lower.", "Chris will share with us why Immerison Cooling is so important for a data center, how does it work and the challenges for Immerison Cooling adoption. He will also present the details of the first of this cooling system for data center in Hong Kong.", "Assessment Guidelines and Best Practices for Green, Sustainable, Reliable, and Energy-Efficient BEAM Plus Data Centres", "Sustainable data centres prioritise environmental responsibility, resource conservation, cost efficiency, regulatory compliance and stakeholder expectations. By adopting sustainable practices, data centres can minimise their environmental impact, optimise resource utilisation, reduce costs, enhance their reputation and foster innovation in the industry.", "This presentation will provide comprehensive insights into planning, design, construction and operation of a green, sustainable, reliable and energy-efficient Data Centre in accordance with BEAM Plus Data Centre assessment tools, covering topics such as site selection, building design, minimisation of operational materials and waste, energy efficient equipment selection, cooling systems, renewable energy integration, water conservation, human environmental quality and operational best practices. Participants will gain knowledge about the key principles, strategies and technologies involved in creating an environmentally friendly and energy-efficient data centre while ensuring reliable and high-performance operations."

Amount(HKD): \$350

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**c) Member Type –
Member of Supporting Organisations**

After clicking the register button, a pop-up box will show up asking if you are a **co-organiser's member** shown as follows, please click “No” to proceed with the registration.

Register Course [X]

Are you the co-organiser's member for this CPD course ?

If yes, please Enter CO Code:

After that, another pop-box will show up asking if you are a **SO member** shown as follows, please input “**BSL_2024**” as the code for this event and click “Yes” to proceed with the registration.

Register Course [X]

Are you the SO member for this CPD course ?

If yes, please Enter SO Code:

You will be directed to the payment page right afterwards as follows. Please choose your desired payment method (Cheque / Credit Card) and complete the payment in order to finish the course registration.

Payment Information

Name:

E-Mail:

Title: Technical Seminar on Green Data Center - Trends and Technologies for Design, Installation, Monitoring and Assessment for Data Center Performance, The Success Stories and Some Common Pitfalls

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Important Notes:

1. Please note that all course applicants shall declare the correct membership type and settle the corresponding course fee. The BSL and ASHRAE-HKC reserve all rights to contact the course applicants to make up the required difference before attending the event.
2. The BSL and ASHRAE-HKC reserve the right to cancel, postpone or reschedule an event due to unforeseen circumstances e.g. insufficient enrolment.
3. If you need any assistance, please contact Training Department, BEAM Society Limited by phone at +852 3610 5719 or by email at beampro.training@beamsociety.org.hk.