



DETAILS

DATE: FRIDAY, 4 SEPT 2020

TIME: 9AM - 5PM

VENUE: ZOOM WEBINAR

Due to the pandemic this workshop will be held online. However, it will still take the shape of a workshop with focus on interaction and discussions between attendants and the facilitator as is the case in workshops and for this purpose the max attendance number is set to 20 people

The event is open to the following:

- CoolestSG Industry Members: Free
 - CoolestSG Government Agencies: Free
 - CoolestSG SME Full Member 4 pax
 - CoolestSG MNC / LLE Member 6 Pax
 - CoolestSG Associate SME Member 2 Pax
- *on a first come first served basis.

Click [HERE](#) to register

Registration closes on the 1st Sept 2020

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INTRODUCTION

Data Centres are concentrated energy users. A large part of total power consumption in Data Centres comes from cooling. So it is no wonder that companies and governments around the world are looking for more efficient methods. Efficient cooling in Data Centres also helps to increase the lifespan of equipment and decreases the likelihood of malfunctions. Efficient Cooling for data centres is especially important for Singapore as renewable energy in Singapore is limited and the ambient temperature and humidity are high.

This one day workshop seeks to look into the challenges faced by data centre operators, manufacturers and government regulators interested in efficient cooling of data centres in the tropics.

PROGRAM OUTLINE

PART 1 : THE DATA CENTRE COOLING LANDSCAPE

1. How the Paris Climate change agreement affects Singapore Government policies.
2. How the new GreenMark for Data Centres will affect the cooling designs and measurement / instrumentation
3. The future outlook for data centre growth
4. How various stakeholders affect design and operation
5. How perceptions and behaviour may vary from technical expectations

PART 2 : COOLING SYSTEM CONSIDERATIONS

1. Uptime Resiliency, cooling redundancy strategies, and response when there are failures
2. Options for cooling systems, and factors affecting energy efficiency
3. Optimising the traditional aircon system efficiency
4. Room temperatures and chilled water temperatures
5. Use of monitoring systems at rack level to closely control the efficiency of the cooling system

PART 3 : SPECIFIC CHALLENGES

1. Oversizing of heat load requirements and the eventual difficulties met
2. Brown Field data centre space management challenges on the pillar distances and getting the right cooling technologies or customizing the cooling units to fit the space available.

PART 4 : GREEN IDEAS FOR DATA CENTRES

1. Integration of data centres into the wider energy-infrastructure

PART 5 : SUMMARY

SPEAKER

Derek William, Consulting Engineer

After the successful completion of an honours degree in Mechanical Engineering from Auckland University, Derek William worked for several years as consultant in Auckland and London before relocating to Singapore in 1995, with Beca Carter Hollings & Ferner. He is a founding partner of TW International Counsel Pte Ltd (TWin) – formed in 2000, with a specific focus on Mission Critical projects (for investment banks and data centers). Based in Singapore, TWin has undertaken projects throughout the Asia-Pacific region. Derek is also a trainer conducting DCPro classroom courses, and a committee member for the latest Green Mark for Data Centres task force.

This webinar will be recorded.