

# Moving Towards An Effective Carbon Management Programme: A Chemical Industrial Perspective

Organised by Chemical Engineering Technical Division

BEM APPROVED CPD HOURS: 2.0  
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**12 APRIL 2021  
MONDAY  
5.30 PM - 7.30 PM**

by Ir. Thayananthan Balakrishnan



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## SYNOPSIS

Climate change effects that scientists had predicted in the past are now occurring: loss of sea ice, accelerated sea level rise, more frequent and more intense heat waves, drought in some regions, as well as tropical storms. Besides the direct damages to the ecosystems by wildfires, more carbon dioxide (CO<sub>2</sub>) is released in the atmosphere. As a greenhouse gas, CO<sub>2</sub> traps heat in the Earth's lower atmosphere which in turn causes the rise in global temperatures.

At the 2015 Paris Agreement, the world leaders pledged to keep a global temperature rise this century to well below 2 degrees Celsius above pre-industrial levels. However, in Oct 2018, World Meteorological Organization (WMO) reported that the average global surface temperature in 2018 was already 0.98 degrees Celsius above the levels. Meanwhile, NASA scientists reported that the warming in the last 60 years is attributed to human activities.

The presentation will cover on the following aspects:

- The challenges and opportunities in tackling climate change issues for chemical industries.
- Fulfillment of expectations by external rating agencies on organization's sustainability performance in relation to climate change
- Pathway towards achieving net zero emission

## SPEAKER'S PROFILE

Ir. Thaya holds a degree in Chemical Engineering and a Masters of Engineering in Safety, Health & Environment. He is a registered Professional Engineer with the Board of Engineers Malaysia and a UK Chartered Professional Engineer. Ir. Thayanathan is a chemical engineer by training with 24 years of experience in environmental management consultancy and chemical process plant operations management. He has worked on projects for various clients locally and internationally and has specific experience in generation of Certified Emission Reduction from Clean Development Mechanism (CDM) projects under the Kyoto Protocol prior to ratification of a new climate deal under the Paris Agreement.

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