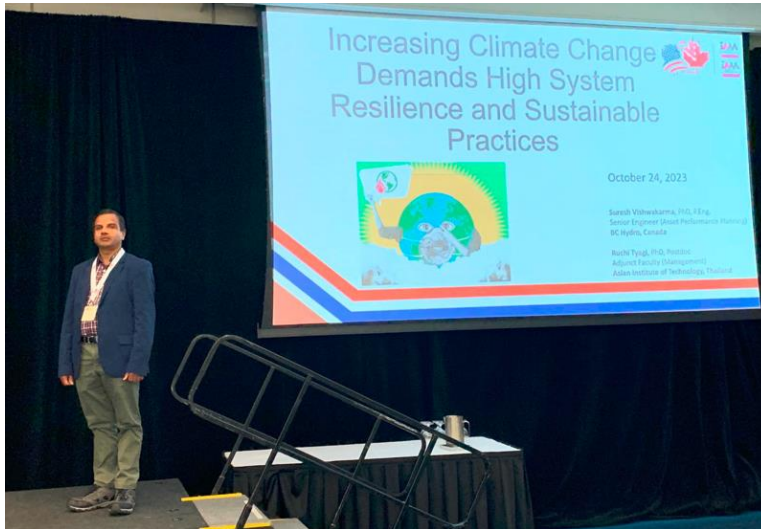


## IET National Travel Award 20230 - Travel Report

**Dr. Suresh Vishwakarma**

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Senior Engineer, BC Hydro, Vancouver, Canada

Thanks to the IET National Travel Award 2023. I travelled to Toronto, Canada on Oct 23, 2023, to present the research paper titled “Increasing Climate Change Demands High System Resilience and Sustainable Practices” authored by my co-researcher Dr. Ruchi Tyagi and me at the Institute of Asset Management (IAM) North American Conference 2023 held at the Metro Toronto Convention Centre, 222 Bremner Blvd, Toronto Canada from Oct 23 to Oct 25, 2023. It was a great moment to talk about the adverse impact of Climate change on industries worldwide with storms, wildfires, droughts, heat waves, and rising seas. The need for sustainable financing, low-emission development and ensuring energy security, adaptation actions or opportunities, and building a climate-resilient infrastructure and communities was discussed.



The need for utility asset managers to ensure a resilient and sustainable critical infrastructure of power systems was discussed including a few strategies to reinforce the resilience and sustainability of systems to extreme weather events. Measures undertaken by a few utility companies to improve their system resilience, sustainability, natural disaster emergency, preparedness, and response were shared. The challenges and opportunities before the utility asset managers in aligning their investment portfolios with the goals of improving their system resilience and sustainability for climate adaptation were discussed. A need for a framework to examine the vulnerability of assets considering exposure, sensitivity, and adaptive capacity was also emphasized.



## Increasing Climate Change Demands High System Resilience and Sustainable Practices



October 24, 2023

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This presentation can be a good reference for practicing utility asset managers and for future researchers to explore advanced resilience and sustainability solutions to improve asset performance.

I express my sincere gratitude to the IET and the Award Panel for supporting my paper presentation. Special thanks go to my coresearcher Dr. Ruchi Tyagi for the success of the presentation. I look forward to getting more such support from the IET in the future.

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