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MARCH

**Data Centers: Mission-Critical Design**

MAY

**Acoustics for the Indoor Environment**

SEPTEMBER

**Decarbonization Decisions: Considering  
Utility Rates and Emissions Factors**

NOVEMBER

**Operation and Control of Electrified Hydronic  
Heating Systems**

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# 2025 PROGRAM LINE UP

**Data Centers: Mission-Critical Design.** This program focuses on the efficient and reliable design of mission-critical data center applications, emphasizing best practices for plant design. Key topics include optimal layout configurations, the implementation of free cooling strategies, and the accommodation of varying temperature requirements. Additionally, the program will explore advanced cooling technologies, specifically air-cooled systems and liquid immersion cooling, tailored for high-tech computing environments.

**Acoustics for the Indoor Environment.** Acoustics in the indoor built environment continues to be an important issue. This program will review current trends in acoustics, including the use of open ceiling systems, discussion of acoustical standards for VAV boxes, and examination of common indoor sound requirements.

**Decarbonization Decisions.** As efforts to decarbonize continue to expand, it is critical to consider the influence of the electrical grid when determining the decarbonization method for a given scenario. In this program, we will explore how utility rate structures determine project viability and discuss how grid emission rates impact project outcomes. We will consider how these concepts relate to demand management, electrification, and other decarbonization options.

**Operation and Control of Electrified Hydronic Heating Systems.** Hydronic heating systems require control methods and considerations that are different from traditional chilled-water systems. The rapid adoption of electrified heating systems creates a steep learning curve for engineers, operators, and owners. This program addresses many of the control considerations for electrified heating systems.

**Contact your local Trane office for details or visit [Trane.com/ENL](https://www.trane.com/enl).**