Center for Clean Hydrogen

Accelerating the Transition to Clean Energy

Nick Barilo

Executive Director

Center for Hydrogen Safety

HYDROGEN SAFETY CONSIDERATIONS

Safety concerns are a significant factor that needs to be addressed for the successful acceptance and deployment of hydrogen technology. Like any new technology, it is essential to ensure that the design and use of hydrogen are safe, minimizing adverse incidents, and promoting the broad acceptance of hydrogen as a transformative fuel. In this presentation, we will discuss the properties and hazards of hydrogen, fundamental safety considerations, and the availability of beneficial resources. Additionally, we will emphasize the importance of adhering to codes and standards, adopting best safety practices, and maintaining a strong safety culture to ensure safe and efficient use of hydrogen technology.

BIOGRAPHY

Nick Barilo is the Executive Director of the Center for Hydrogen Safety (CHS) at the American Institute of Chemical Engineers (www.aiche.org/chs). He is also the Hydrogen Safety Program manager at the Pacific Northwest National Laboratory (PNNL). CHS is a global nonprofit organization that promotes the safe handling and use of hydrogen in various industrial and consumer applications during the energy transition.

As the Executive Director of CHS, Nick facilitates access to hydrogen safety experts, leads the development of comprehensive safety guidance, outreach, and education materials, and expands a platform to partner on worldwide technical solutions. Nick is a licensed fire protection engineer with over 35 years of experience and has dedicated his career to reducing risks to personnel and property.

Nick has served on the NFPA 2 Hydrogen Technologies Code committee and played a crucial role in developing the document's fundamental chapters. His work at PNNL provides critical hydrogen safety support for the U.S. Department of Energy's Hydrogen and Fuel Cells Office. In this role, he leads safety knowledge dissemination and directs the U.S. Hydrogen Safety Panel activities.

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