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AGENDA
ANSI Hydrogen Standards Workshop

June 22nd 1:00 – 5:00 pm | June 23rd 9:00 – 4:30 pm EST
American Society of Mechanical Engineers (ASME) 1828 L St NW | Washington, DC 20036

Table with 2 columns: TIME and DISCUSSION TOPIC AND SPEAKER. It details the agenda for Day 1 (June 22, 2026) from 1:00 PM to 5:00 PM, including sessions on networking, workshop opening, hydrogen ecosystem panel, and navigating compliance.

## ANSI Hydrogen Standards Workshop Agenda

4:20 – 4:45 pm	<b>Canadian Hydrogen Codes &amp; Standards <a href="#">Roadmap</a></b> – <i>*<a href="#">Olumoye Ajao</a>, Natural Resources Canada</i>
4:45 – 5:00 pm	<b>Day 2 Planning &amp; Preparation</b> – <i>Christine Bernat, ANSI</i>
5:30 – 6:30 pm	<b>Informal / Un-sponsored Networking Social</b> – <i><a href="#">Casa Theresa</a>, 919 19th Street NW, Washington DC</i>

*\*Discussions will run concurrently.*

### DAY 2 – JUNE 23, 2026 | 9:00 – 4:30 PM

TIME	DISCUSSION TOPIC AND SPEAKER
8:30 – 9:00 am	<b>Check-in &amp; Networking</b> ( <i>continental breakfast provided</i> )
9:00 – 9:15 pm	<b>Day 1 Recap &amp; Day 2 Objectives</b> – <i>Christine Bernat, ANSI</i>
<b>Session 4</b>	<p><b>Lifecycle Deep Dives</b></p> <p><i>Facilitated discussions around standards gaps, pre-standardization research needs, standards implementation, and regulatory/conformity assessment frameworks.</i></p> <p><b>Questions:</b></p> <ol style="list-style-type: none"> <li><b>1. Desired End-State:</b> <i>What capabilities does technology have and what are you hoping it will achieve? What does this look like for various stakeholders?</i></li> <li><b>2. Conformity Assessment, Permitting, &amp; Regulatory Frameworks:</b> <i>What conformity assessment activities are necessary, if any, to reach the desired end-state? How well are current conformity assessment pathways (testing, certification, permitting, and code adoption) keeping pace with hydrogen technology development? Where are the misalignments between what standards require and what these frameworks recognize or enforce?</i></li> <li><b>3. Standards Implementation:</b> <i>Where are stakeholders encountering the greatest challenges in applying existing standards in the field, and what would make standards more implementable (e.g., clearer guidance, better training, or harmonization across overlapping documents?) How can stakeholders better leverage, implement, and/or advocate for standards implementation?</i></li> <li><b>4. Standards Gaps:</b> <i>Where are the most critical gaps in the current standards landscape, and what evidence (from experience, incident data, or emerging research) should inform how we prioritize closing them?</i></li> <li><b>5. Standards Coordination:</b> <i>What technical areas would benefit from standards coordination between SDOs? Are there concerns about duplication, overlap, or conflicting content or requirements?</i></li> <li><b>6. Pre-Standardization Research Needs:</b> <i>What technical questions or data gaps must be resolved before standards development can meaningfully begin, and how should industry, national labs, and academia coordinate to address them efficiently?</i></li> </ol>
9:15 – 10:30 pm	<p><b>I. Production, Storage, &amp; Carbon Capture</b> – <i>Moderated by <a href="#">Rob Early</a>, CGA</i></p> <p>Discussions will center around:</p> <ul style="list-style-type: none"> <li>- Generation of hydrogen, including efficiency, environmental impact, and quality/purity considerations.</li> <li>- Systems and methods for storing hydrogen in gaseous, liquid, or solid form, addressing materials, pressure, and safety requirements.</li> </ul>
10:30 – 10:45 am	<b>Break</b>

## ANSI Hydrogen Standards Workshop Agenda

10:45 – 12:00 pm	<p><b>II. Distribution &amp; Transport</b> – Moderated by <a href="#">Ken Lee</a>, DNV</p> <p>Discussions will center around standards addressing the movement of hydrogen from production to end users via pipelines, vehicles, or marine transport.</p>
<b>12:00 – 12:45 pm</b>	<b>Lunch</b> ( <i>provided</i> )
12:45 – 2:00 pm	<p><b>III. Infrastructure</b> – Moderated by <a href="#">Elizabeth McCall</a>, Chart Industries, Inc.</p> <p>Discussions will center around standards impacting the physical systems, facilities, and regulatory frameworks that support hydrogen deployment (refueling, storage, and grid integration).</p>
2:00 – 3:15 pm	<p><b>IV. Utilization &amp; End-Use Applications</b> - Moderated by <a href="#">Christian Thiele</a>, SAE International</p> <p>Discussions will center around standards impacting the focus on safety, efficiency, and performance within and across various sectors, including transportation (mobility), energy, chemical production, processing and refining.</p>
<b>3:15 – 3:30 pm</b>	<b>Break</b>
<b>Session 5</b>	<b>Taking Action</b>
3:30 – 4:00 pm	<p><b>What's Next?</b> – <i>Christine Bernat, ANSI</i></p> <ul style="list-style-type: none"> <li>- If this workshop were to produce a prioritized roadmap for hydrogen standards coordination over the next three to five years, what would you argue must be at the top of the list — and who needs to be at the table to get it done?</li> <li>- What other areas not highlighted in the workshop that would benefit from similar discussions?</li> </ul>
4:00 – 4:30 pm	<p><b>Key Takeaways &amp; Closing Remarks</b> – <i>Christine Bernat, ANSI</i></p>



# Advancing Hydrogen Through Standards



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ASME Clean Hydrogen  
Solutions

## The Future of Clean Hydrogen Energy

The transition to a hydrogen-enabled energy future depends on more than technology advancement. It requires a coordinated standards framework that supports safety, consistency, interoperability, and confidence across the full hydrogen value chain.

ASME brings deep engineering expertise to support the standardization of hydrogen technologies that can accelerate the transition to clean energy. Yet it's through collaboration with the broader standards community to truly establish green energy solutions while maintaining a shared commitment to safety and public trust.

## Services

- Supporting cross-sector standards alignment across hydrogen production, storage, transport, and application
- Contributing technical expertise in pressure systems, piping, materials, safety, inspection, and lifecycle reliability
- Advancing conformity assessment approaches that help strengthen confidence in hydrogen technologies and infrastructure
- Collaborating with SDOs, regulators, industry, and technical stakeholders to address standards gaps and enable responsible deployment

## Production

**Hydrogen production** technologies require standards that support safe system design and integration with existing infrastructure. ASME contributes engineering expertise that helps inform technically sound and robust approaches.

## Storage

**Hydrogen storage** presents complex challenges related to pressure, materials, inspection, and long-term reliability. ASME supports standards development efforts that help address these considerations and strengthen confidence in storage systems.

## Application

**Hydrogen application** expands across several applications, making coordination essential. ASME works alongside the broader standards community to support safe adoption, interoperability, and market readiness.



ADVANCING STANDARDS  
TRANSFORMING MARKETS

Helping our world work better by creating a foundation for trust, trade, and transformation through the power of global standardization.

## We Welcome

everyone to our open and global community of belonging where every voice is unique and every voice matters.

## We Collaborate

to discover and deliver the best solutions through diversity of thought, open minds, and teamwork.

## We Innovate

by embracing new possibilities, challenging ourselves, thinking boldly, driving change, and evolving as an organization.

## We Serve

with passion, commitment, and integrity, striving to exceed the expectations of each other, our members, and all those who rely on us.

## We Believe

in our ability to make a positive difference in people's lives through standards and services, helping our world work better.

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# HYDROGEN SAFETY THROUGH STANDARDS & COLLABORATION



For more than 70 years, the Compressed Gas Association (CGA) has supported the safe production, storage, transportation, and use of hydrogen through technical standards, industry collaboration, and educational resources.

As an ANSI-accredited standards developer, CGA works alongside industry, government, and partner organizations to advance practical hydrogen safety guidance across the hydrogen value chain.



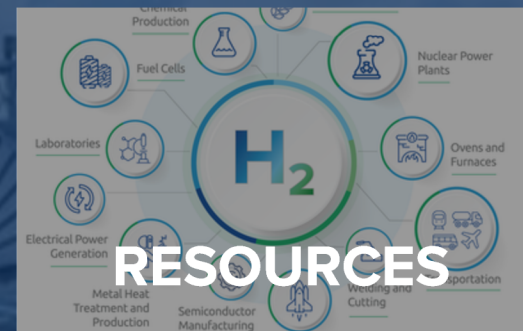
**STANDARDS**

Hydrogen safety publications and operational guidance supporting production, storage, transportation, and use.



**ALIGNMENT**

Technical coordination with industry, government, partner organizations, and international stakeholders.



**RESOURCES**

Safety videos, e-learning modules, technical standards, one-pagers, and Safe Hydrogen Project materials.

**ANSI Accredited | Founded 1913 | 28+ Hydrogen Publications**



**Explore Hydrogen Safety Resources**

Videos • Standards Map • Safety Education

# Supporting the deployment of hydrogen technologies

CSA Group codes, standards, and research for safe and reliable implementation of hydrogen, including production, delivery, storage, and end-use applications

As the deployment of hydrogen moves forward, there is a growing need for standards and codes that can help facilitate safe and reliable use of hydrogen.

For more than two decades, CSA Group has been working on standards and codes for various aspects of the hydrogen value chain and subject areas, including:

- Hydrogen production
- Carbon capture utilization and storage
- Hydrogen storage above ground and in underground formations
- Hydrogen delivery by pipelines, road, rail, or ships
- Hydrogen use for various transportation modes including hydrogen fuel cells
- Hydrogen use in commercial/industrial applications



**500+ volunteer experts**

representing diverse areas of knowledge, viewpoints, and interests serve on more than 30 Technical Committees related to hydrogen



**100+ CSA Group standards and guidelines** support the hydrogen ecosystem.



**CSA Group's consensus-based standards development** process is accredited by the Standards Council of Canada (SCC) and the American National Standards Institute (ANSI).

**Get more information**

[csagroup.org/hydrogen](https://www.csagroup.org/hydrogen)

[hydrogen@csagroup.org](mailto:hydrogen@csagroup.org)



## About CSA Group

CSA Group is a global organization dedicated to safety, social good, and sustainability. We are a leader in Standards Development and in Testing, Inspection and Certification around the world, including Canada, the U.S., Europe, and Asia.

The mission of CSA Group's Standard Development organization is to enhance the lives of Canadians through the advancement of standards in the public and private sectors. As such, CSA Group continues to be at the forefront of standards research, development, education, and advocacy.

# AMPP Standards Developments in H<sub>2</sub> and CO<sub>2</sub>



## H<sub>2</sub> Projects

- Hydrogen Transport Guideline (Guide 21579)
- Guidelines for Laboratory Corrosion Testing for Hydrogen (Guide 21586)

## CO<sub>2</sub> Guidance Document

- Guideline for Materials Selection and Corrosion Control for CO<sub>2</sub> Transport and Injection (Guide 21532)

## CO<sub>2</sub> Projects

- Guideline for corrosion testing in CCUS applications with impure CO<sub>2</sub> (Guide 21577)
  - Materials Selection and Corrosion Control for CCS (Carbon Capture & Storage) Projects (SP21632)
- Guidelines for Materials Selection and Testing for CO<sub>2</sub> Injection in Wells (SP21632-3)

Learn More or Join an AMPP  
Standards Committee



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CODE COUNCIL®



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## POWER THE FUTURE OF HYDROGEN MOBILITY

Join the SAE Fuel Cell Standards Committee in shaping the standards that define safety, performance, and innovation for hydrogen and fuel cell vehicles. From critical system interfaces to rigorous testing protocols, your expertise can help drive a safer, more reliable path forward for clean transportation.

Get involved today—scan the QR code to learn more.

