ANSI Hydrogen Standards Coordination Initiative

2025-2026

Project Plan

Hydrogen serves as a critical industrial element, supporting petroleum refining, fertilizer and chemical production, and metal processing, while also offering a path to cleaner transport and power systems through fuel cells. Beyond its current uses, hydrogen holds promise as a large-scale energy storage medium, enabling excess renewable electricity to be converted, stored, and used when demand is high.

Beginning in early 2026, ANSI will launch a series of standards coordination initiatives covering the full hydrogen value chain—including production, storage, carbon capture, transportation, utilization, and related infrastructure. ANSI will develop a standards landscape, host webinars, and convene a technical workshop to raise awareness of existing hydrogen standardization activities and explore the challenges and opportunities in hydrogen standardization. Efforts include:

PHASE I

***Timeline**: December through March 2026*

***Activities**:*

- **Hydrogen Standards Coordination Website –** A public facing webpage with information about the project, its deliverables, and sponsor information.
- **Hydrogen Standards Landscape** – A comprehensive listing (excel) of hydrogen-related standards, associated activities, supporting organizations, and related metadata.
- **Standards Webinars** – A series of briefings from various standards and codes developers, highlighting their current activities and providing opportunities for dialogue with participants.

Webinar recordings, presentations and other related materials may be made available on the ANSI website post-event. Pre- and post-event communications will support Phase 2 and finalization of the H2 standards landscape.

PHASE II

[Sponsors Currently Invited]

***Timeline**: March through July 2026*

***Activities**:*

- **Technical Workshop** – A one-day, in-person workshop in the Washington, DC area focused on pre-standardization research, standards and conformity assessment needs, and potential regulatory framework considerations.
- **Workshop Report** - An executive report which will contain a summary of identified key challenges and opportunities for standards development, gaps in standards, and other associated recommendations.

This collaborative effort will draw contributions from a broad spectrum of stakeholders across the public and private sectors, including industry, consortia and professional societies, academia and research institutions, standards development organizations, and regulatory bodies.

The results of this initiative will be made publicly available on the ANSI Hydrogen standards coordination webpage.

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