



National Lieutenant Governors Association

NLGA Consensus Resolution On Hydrogen in Energy Supply

WHEREAS, hydrogen is the lightest, simplest, and most abundant known element, and

WHEREAS, hydrogen is a color-less, odor-less, non-toxic, and highly combustible element, and

WHEREAS, hydrogen has gained attention as a growing potential future energy source, and

WHEREAS, hydrogen can be used in power generation, heavy industry, and transportation, and

WHEREAS, hydrogen must be produced from other energy sources, and can be produced from natural gas via steam reformation and from water via electrolysis, and

WHEREAS, hydrogen is commonly classified using colors such as grey, blue, and green, and

WHEREAS, grey and blue hydrogen are produced with fossil fuel inputs, and green is produced from water by electrolysis and is considered green if the hydrogen is produced from a clean energy source, such as nuclear or renewables, and

WHEREAS, different regions of the United States have the resources to produce both blue and green hydrogen, and

WHEREAS, hydrogen's characteristic as an energy carrier distinguishes it as having various valued potential future energy uses, and

WHEREAS, once produced, hydrogen can be stored, transported, and later used in applications such as hydrogen fuel cells, ammonia production, biofuels, and more, and

WHEREAS, the use of hydrogen as an energy source would require substantial scale-up in arenas from cost to regulatory environment.

NOW, THEREFORE, BE IT RESOLVED that the National Lieutenant Governors Association (NLGA) recognizes the importance of education on hydrogen for its potential in future energy development and use.

ADOPTED, this day, the 6th of December, 2023.

Co-Sponsors: *TBD*

Proposed for the docket by: University of Houston, NLGA Partner

CITATIONS:

<https://www.nrel.gov/docs/fy22osti/82554.pdf>

<https://www.moorhouseconsulting.com/insights/perspectives/hydrogen-101/>

<https://www.energy.gov/eere/fuelcells/hydrogen-production-natural-gas-reforming>

<https://www.energy.gov/eere/fuelcells/hydrogen-production-electrolysis#:~:text=Electrolysis%20is%20a%20promising%20option,a%20unit%20called%20an%20electrolyzer>

<https://www.schroders.com/en-us/us/wealth-management/insights/hydrogen-101-the-uses-the-costs-and-the-opportunity-/>

<https://betterenergy.org/blog/hydrogen-101/>

<https://clearpath.org/tech-101/hydrogen-101/>