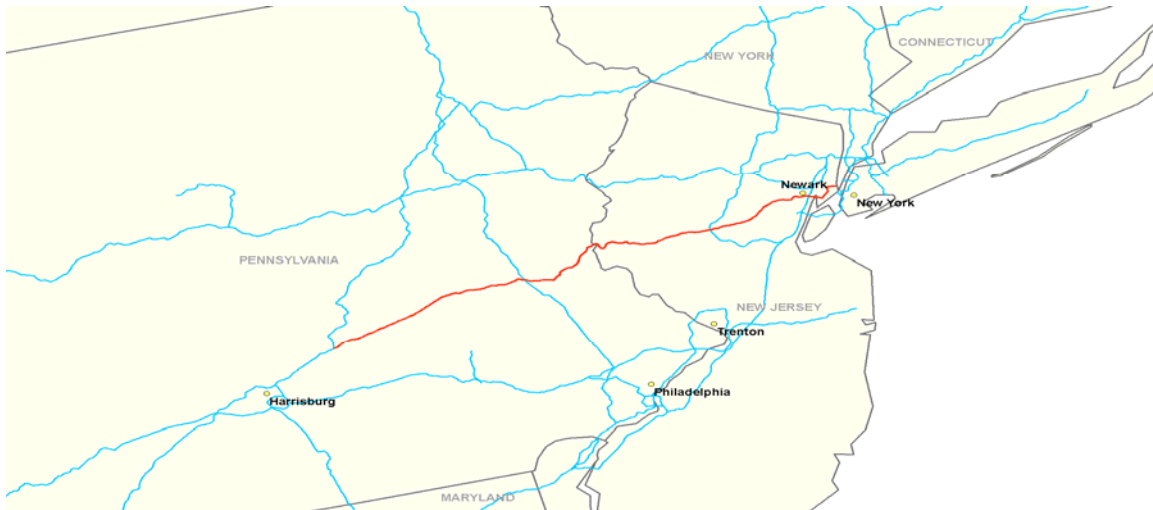


HYDROGEN HIGHWAY EAST LEHIGH VALLEY TO NYC

Interstate 78 runs from Interstate 81 northeast of Harrisburg through Allentown, Bethlehem, and Easton, crosses the Delaware River into Phillipsburg, extends through Newark metropolitan area to the Holland Tunnel and finally, delivers into downtown New York City. The 143.56 mile interstate provides an express highway for transcontinental traffic crossing through Pennsylvania, New Jersey, and New York.



Undoubtedly, the construction of Interstate 78 was transformational for our region; today, we must be visionary with its use. Interstate 78 is uniquely situated and suited to be a gateway to the hydrogen economy – the Hydrogen Highway East.

Objective:

Maximize existing regional resources in order to foster and deploy a clean, reliable and efficient hydrogen network that will:

- Decrease our dependence on foreign oil and fossil fuels;
- Protect our citizens and preserve our environment from the harmful effects of vehicle emissions; and
- Mitigate traffic and congestion.

Strategy:

Undeniably, realizing a clean, reliable energy future that relies on hydrogen will be an incremental process. Just as California Governor Arnold Schwarzenegger has set manageable goals for the California Hydrogen Highway Network, the creation of Hydrogen Highway East will require a series of steps.

- Phase I – Advance Hydrogen Infrastructure Along I-78
- Phase II – Employ Transition Technologies Throughout the Region
 - Stationary/Portable Fuel Cells
 - Hydrogen and Fuel Cell Buses
- Phase III – Commercial, Affordable Hydrogen and Hydrogen Fuel Cell Vehicles

Why: Why Hydrogen? Why Now? Why Here?

Hydrogen makes up 98% of the known universe, and it is the third most abundant element on the earth's surface. It is the lightest of all gases, the coldest of all liquids next to helium, and as a component of water, minerals and acids, it makes up a fundamental part of all hydrocarbons and organic substances. Hydrogen is abundant, efficient and CLEAN.

States and Countries across the world are recognizing the promise of hydrogen – a clean, reliable, efficient energy future. California, Florida, Iceland, the Netherlands, Spain, Germany, the United Kingdom, Portugal, Sweden, Australia, Luxembourg, and China have all begun to harness this powerful energy carrier.

An investment in the necessary infrastructure now is a deposit for the future. Hydrogen and fuel cells will play a key role in freeing our nation from dependence on foreign sources of oil and fossil fuels. Equally important, hydrogen and fuel cell technology holds the promise of an economy that is powered by an energy source that maximizes our resources without doing harm to our environment.

The tools are right here in the region to make the Hydrogen Highway East a reality. Just as Houston is the petroleum city, and Detroit is the motor city, the Lehigh Valley could be America's Hydrogen Valley in the 21st Century.

