

MACH2 Hydrogen Hub

What is it and What it Could Mean for Southeastern PA Communities

- The [Mid-Atlantic Hydrogen Hub \(MACH2\)](#) is a proposed cluster of hydrogen energy projects reportedly to be comprised of 17 components throughout southeastern Pennsylvania, South and Central New Jersey, and Delaware
- Earmarked to potentially receive \$750 Million in federal funding; No \$ yet.
- Projected to produce 300+ tons hydrogen/day; 100,000+ tons/yr. @buildout
- Will “reuse and revitalize significant existing pipeline infrastructure” and terminals - this is where environmentally overburdened communities live now; new public health and hazardous threats would be layered on
- Hydrogen planned to be produced from: PSEG Salem Nuclear Plant and HOLTEC Modular Nukes (“pink hydrogen”); hydropower, wind and/or solar (“green hydrogen”); wastewater (“orange hydrogen”) and, according to the official MACH2 Abstract, will use fracked gas to employ “blue hydrogen” through a processing method called “steam methane reforming” with carbon capture “while green H2 production is developed”.
- A “Hydrogen Highway” is planned to move hydrogen through pipelines, in trucks, etc. and stored along the way. Hydrogen is highly flammable and is a powerful explosive; is so tiny and light it profusely leaks and causes steel to break down (“embrittlement”); is classified as a hazardous material.
- There has been very little information available about the details of the proposed Hub and what the impacts would be on the air, water, and quality of life for communities or on the Delaware River Watershed environment but MACH2 has published these plans:
 - Plans for industrial, transportation, electric power generation, and residential & commercial end-uses. Note: burning hydrogen, no matter how it is produced, emits nitrogen oxides, which severely harm human health with pollution and cause smog, worsening the climate crisis. Electric power generation requires burning hydrogen.
 - Maps of MACH2’s southeastern PA projects include: HILCO site (the former PES Refinery), the Schuylkill River Tank Farm, PGW facilities, SEPTA locations, Philadelphia riverfront terminal, the Monroe Refinery, and the Marcus Hook Industrial Complex. Additional hydrogen hub projects would located in New Jersey and Delaware.



“MACH2 Hydrogen Highway of regional connections between producers, distributors, and users” from: *Mid-Atlantic Clean Hydrogen Hub (MACH2)*, *MACH2 Abstract*, p. 2 of 5

Map: Southeastern Pennsylvania and proximate New Jersey region components

For more information:

Delaware Riverkeeper Network, tracy@delawariverkeeper.org and see: <https://www.delawariverkeeper.org/ongoing-issues/mid-atlantic-hydrogen-hub>

Physicians for Social Responsibility Pennsylvania, tammy@psrpa.org and see: <https://www.psrpa.org/resources-toolkit>