



Mechanical/Environmental Sustainability Project

Hydrogen Refueling Infrastructure in Connecticut

Mission Statement

Design a hydrogen refueling infrastructure considering necessary number of stations given different factors in the state of Connecticut

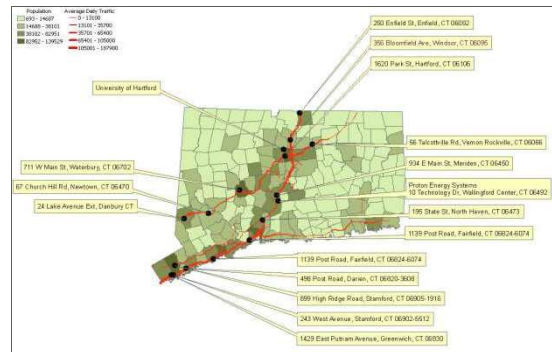
Synopsis

Connecticut is the home for several leading hydrogen fuel cell manufacturers. Because vehicles powered by fuel cells do not emit CO₂ they are finding wide acceptance in the public transportation (buses) community. Vehicle (cars) utilization is hampered by the lack of hydrogen fueling stations. The actual production of hydrogen led by companies like Proton Energy (Wallingford, CT) is not an issue, the distribution is.

This team undertook the ambitious research project of creating a Phase I distribution plan for the State of CT. To accurately pin point where these stations could be placed extensive data was gathered from the US Census, CT Department of Transportation, as well as other sources.

Utilizing ArcGIS computer software the team created detailed maps of station locations to cover the major travelling routes within the state of CT, including the New York to Boston corridor.

The Phase I plan has been submitted to the CT Department of Transportation for review.



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