

UC Davis Models

Geospatial Station Network Design Tool & Hydrogen Infrastructure Rollout Economic Analysis Model
(University of California-Davis)

Objectives

Analyze regional strategies for early rollout of hydrogen infrastructure in support of fuel cell vehicle commercialization. Estimate how many hydrogen fueling stations would be needed and how much it will cost to develop cost competitive hydrogen supply. Compare the cost of hydrogen from different types and sizes of hydrogen stations under steady-state conditions, when stations are fully utilized.

Key Attributes & Strengths

The model presents robust data on costs and performance for early hydrogen fueling stations, as well as scenarios and strategies for deployment. Ability to conduct case studies for a projected hydrogen fuel cell vehicle rollout in California, utilizing GIS-based analysis for station siting and consumer convenience and economics from perspective of the network, individual station owners, and consumers.

Platform, Requirements & Availability

Microsoft Excel-based hydrogen infrastructure rollout spreadsheet model.

