

# Hydrogen Delivery Scenario Analysis Model (HDSAM)

(Argonne National Laboratory)

## Objectives

Provide platform for comparing the cost of alternative hydrogen delivery and refueling options. Identify cost drivers of current hydrogen delivery and refueling technologies for various market penetrations of fuel cell electric vehicles (FCEVs).

## Key Attributes & Strengths

The tool is highly flexible, allowing end users the ability to change many detailed input assumptions and to perform sensitivity analyses. *HDSAM* evaluates the cost of hydrogen delivery and refueling for various fuel cell vehicle market penetrations in U.S. cities with population of 50,000 or greater. The model incorporate optimization algorithms to identify least cost delivery and refueling configurations. All assumptions and calculations are transparent and key components and drivers of cost are easily identified.

## Platform, Requirements & Availability

HDSAM model uses an Excel-based platform with graphical user interface, and is freely available to the public from the Systems Analysis program's website: [http://hydrogen.energy.gov/h2a\\_analysis.html](http://hydrogen.energy.gov/h2a_analysis.html)

