



Fuel Cell and Hydrogen Energy 2011 Workshop Macro-System Modeling for Hydrogen System Analysis

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<http://h2-msm.ca.sandia.gov>

Individual User QUESTIONNAIRE

Based on the workshop, or on your experience as a Macro-System Model (MSM) user, please let us know your thoughts on the following:

Which MSM features are you likely to use (please mark them below)? These features are accessible for the web-users:

- Costs of hydrogen* for a variety of production/delivery/dispensing pathways
- Well-to-wheel energy use and emissions* associated with each pathway using parameters that are consistent with the cost estimation
- Sensitivities* on the key cost, energy use, and emissions parameters
- Selecting a *geographic location* to make the results region-specific
- Vehicle* production energy use and emissions
- Combined *fuel* pathway and *vehicle* results to estimate life cycle energy use and emissions and the total cost of vehicle ownership
- Combine *vehicle cycle* tool with *geographic location* tool ("What if the car is made in XX state, Xxxx county?")

Which off-line MSM features can be of interest for you? These features are available by request:

- Stochastic capabilities* to provide uncertainty ranges around the results
- Transition scenarios* of hydrogen production/delivery/dispensing pathways depending on a specified hydrogen demand growth curve.

COMMENTS:

Which prospective MSM features can be of future interest for you?

- Make *transition scenarios* tool available to the web-users
- Geographically specific* transition scenarios
- Ability to modify *vehicle cost and performance* parameters

What other features would you like to see or other models integrated with the MSM?

Thank you for your input!

Name and email (optional) _____