

USGS Maryland-Delaware-District of Columbia Water Science Center

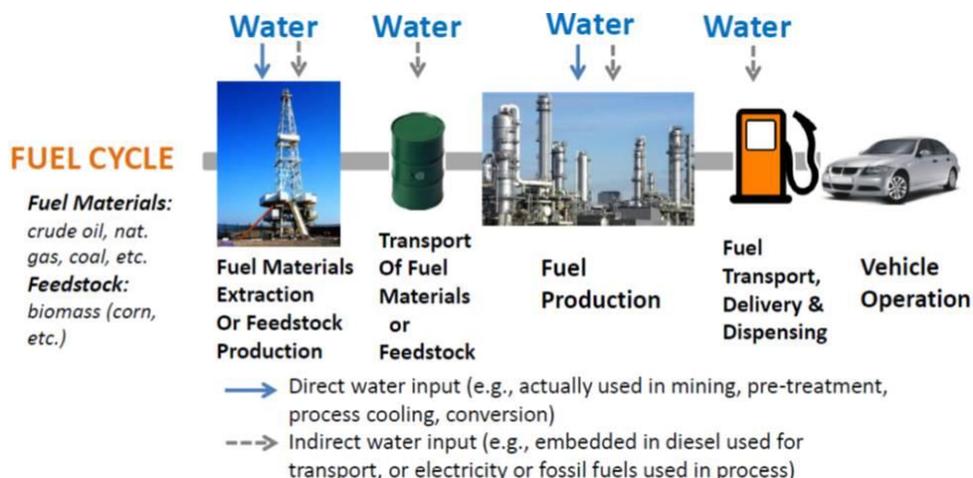
Seminar Series

Thursday, October 29, 2015 10:00 a.m.

Water Consumption for Light-Duty Vehicles' Transportation Fuels

Dave Andress, President, David Andress & Associates, Inc and Tien Nguyen, Sr. Technology Analyst, U.S. Department of Energy, and Jeni Keisman, Biologist, U.S. Geological Survey

Life-cycle analysis of water consumption in the production of transportation fuels for use in light-duty vehicles, assuming current technology for fuels production, electric generation, and vehicles. Pathways analyzed include: gasoline blended with 10% corn ethanol by volume, diesel, natural gas, electricity, and hydrogen.



Dave Andress has 39 years of consulting and analysis experience. U.S. Department of Energy clients include the Energy Information Administration, the Office of Energy Efficiency and Renewable Energy, the Office of Civilian Radioactive Waste Management, and others. He has developed electricity models, radioactive waste logistics and radiation models, combined heat and power cost models, water consumption models, fuel cell benefits analysis models, biomass supply cost models, forklift market analyses, among others. He has conducted analysis of greenhouse gases effects and water intensity of alternative transportation pathways. Dave holds a Bachelor's degree from Rensselaer Polytechnic Institute and a M.S. in Mathematics from the University of Maryland.

Tien Nguyen is a Sr. Technology Analyst in the Fuel Cell Technologies Office at the Department of Energy's Office of Energy Efficiency & Renewable Energy. Tien conducts system studies of alternative technologies for vehicles and stationary applications involving tradeoffs in costs, performance, and environmental benefits. He evaluates effects of deployment on resource requirements, carbon emissions, and water and petroleum use, assesses technical and market barriers and policy measures needed for successful market penetration, and analyzes legislation aimed at improving market potential. He has also conducted assessments of radioactive waste management alternatives and associated transportation risks. Tien holds advanced degrees in engineering and economics from SUNY Buffalo.

This presentation will also be available remotely via Webex:

<https://usgs.webex.com/usgs/j.php?MTID=m986cd28f9965a19237aad6092b495790>

For directions to the USGS MD-DE-DC WSC: <http://md.water.usgs.gov/directions/baltimore.html>.