

**Workshop on EPA Lifecycle Modeling for EISA Renewable Fuel Requirements  
June 10-11, 2009**

**Dupont Hotel  
1500 New Hampshire Avenue NW, Washington D.C. 20036**

Workshop Objectives:

- Help ensure a full understanding of EPA's greenhouse gas (GHG) lifecycle analysis for the Proposed Revisions to the Renewable Fuels Program, including the issues addressed and options considered
- Answer clarifying questions from participants about the lifecycle analysis
- Hear stakeholder input on technical aspects of lifecycle analysis
- Provide participants with information to help them provide thoughtful and useful comments on the lifecycle analysis component of the proposal

**Wednesday, June 10**

<b>Schedule</b>	<b>Topic</b>
8:30-9:00	<b>Registration</b>
9:00-9:15	<b>Welcome, Agenda Review, and Ground Rules</b>
9:15-12:30 <i>(15 minute break at approximately 10:45)</i>	<p><b>Overview of EISA Requirements and Lifecycle GHG Analysis (LCA)</b></p> <ul style="list-style-type: none"> <li>• EPA presentation on key topics:               <ul style="list-style-type: none"> <li>○ EISA renewable fuel and lifecycle GHG requirements</li> <li>○ Lifecycle analysis process, approach, and modeling</li> <li>○ Summary of LCA results in Proposed Rule</li> <li>○ Key areas where EPA is seeking feedback on LCA</li> </ul> </li> <li>• Presentations by stakeholders:               <ul style="list-style-type: none"> <li>○ Geoff Cooper &amp; Tom Darlington, Renewable Fuels Association</li> <li>○ Mike Schieble, California Air Resources Board</li> <li>○ Tom Hance, American Soybean Association</li> <li>○ Michelle Manion, Northeast States for Coordinated Air Use Management (NESCAUM)</li> <li>○ Tim Searchinger, Princeton University and German Marshall Fund</li> </ul> </li> <li>• EPA and Audience Questions and Answers</li> </ul>
12:30 -1:30	<b>Lunch</b> (on your own)
1:30-5:00 <i>(15 minute break at approximately 3:00)</i>	<p><b>Analysis of Agricultural Modeling and Land Use Change</b></p> <ul style="list-style-type: none"> <li>• EPA presentation on key topics:               <ul style="list-style-type: none"> <li>○ Models used (FASOM and FAPRI) and model inputs (e.g., crop yields, fertilizer, energy use, co-products)</li> <li>○ Direct GHG emissions from agriculture</li> <li>○ Price and export impacts</li> <li>○ Amount and types of land converted (domestic and international)</li> <li>○ Pasture replacement and treatment of forestry component</li> </ul> </li> <li>• Presentations by stakeholders:               <ul style="list-style-type: none"> <li>○ Scott Malcolm, U.S. Department of Agriculture</li> <li>○ Beth Calabotta, Monsanto</li> <li>○ Peter Attia, Sapphire Energy</li> <li>○ Michael O'Hare, University of California-Berkeley</li> </ul> </li> <li>• EPA and Audience Questions and Answers</li> </ul>
5:00	<b>Adjourn Day 1</b>

## Thursday, June 11

<u>Schedule</u>	<u>Topic</u>
8:30-11:30 (15 minute break at approximately 10:00)	<b>Analysis of Greenhouse Gas Emissions from Land Use Change</b> <ul style="list-style-type: none"><li>• EPA presentation on key topics:<ul style="list-style-type: none"><li>○ Emission factors for biomass carbon, soil carbon</li><li>○ Foregone sequestration (e.g., from forest clearing)</li><li>○ “Payback period” for land use change</li><li>○ Length of time for considering benefits vs. impacts</li><li>○ Discounting approach</li></ul></li><li>• Presentations by stakeholders:<ul style="list-style-type: none"><li>○ John Sheehan, University of Minnesota</li><li>○ Andre Nassar, ICONE, Institute for International Trade Negotiations</li><li>○ Joe Fargione, Nature Conservancy</li><li>○ Allison Thomson, Pacific Northwest National Labs</li></ul></li><li>• EPA and Audience Questions and Answers</li></ul>
11:30-12:30	<b>Analysis of Biofuel Processing and Petroleum Baseline—Part I (<i>will continue after lunch</i>)</b> <ul style="list-style-type: none"><li>• EPA presentation on key topics:<ul style="list-style-type: none"><li>○ Modeling inputs for renewable fuels analyzed (corn ethanol, biodiesel, cellulosic ethanol, sugarcane ethanol)</li><li>○ Modeling 2005 petroleum baseline</li></ul></li></ul>
12:30-1:30	<b>Lunch</b> (on your own)
1:30-3:30	<b>Analysis of Biofuel Processing and Petroleum Baseline—Part II—(<i>continuation of previous session</i>)</b> <ul style="list-style-type: none"><li>• Presentations by stakeholders:<ul style="list-style-type: none"><li>○ Steffen Mueller and Ken Copenhayer, University of Illinois</li><li>○ Chris Cogburn, National Sorghum Producers</li><li>○ Brooke Coleman, New Fuels Alliance</li></ul></li><li>• EPA and Audience Questions and Answers</li></ul>
3:30-3:45	<b>Break</b>
3:45-5:45	<b>Open Session for Additional Technical Contributions From Stakeholders</b>
5:45	<b>Wrap up and Closing</b>