

# GREET TRAINING WORKSHOP DAY ONE AGENDA

November 7, 2022

8:30 a.m.—5 p.m. CT

Building 240, TCS Conference Center

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|------------|---|-----------|--|
| 8:30 a.m.  | <b>Registration</b>   | 1:30 p.m. | <b>Petroleum and Natural Gas</b>   |
| 9:00 a.m.  | <b>GREET Introduction and Modeling Approach</b><br><b>Michael Wang</b><br><i>Interim Director of Energy Systems and Infrastructure Analysis Director, Systems Assessment Center—Environmental Assessment Leader</i> |           | <b>Hao Cai</b><br><i>Group Leader, Materials Life Cycle Analysis, Energy Systems and Infrastructure Analysis</i>   |
| 9:30 a.m.  | <b>GREET 1 Model: Fuel Cycle Analysis</b><br><b>Uisung Lee</b><br><i>Energy Systems Analyst, Energy Systems and Infrastructure Analysis</i>   | 2:00 p.m. | <b>Sustainable Aviation Fuels</b><br><b>Uisung Lee</b><br><i>Energy Systems Analyst, Energy Systems and Infrastructure Analysis</i>                                      |
| 10:00 a.m. | <b>GREET 2 Model: Vehicle/ Material Cycle Analysis</b><br><b>Jarod Kelly</b><br><i>Principal Energy Systems Analyst, Energy Systems and Infrastructure Analysis</i>   | 2:30 p.m. | <b>Marine and Rail</b><br><b>Troy Hawkins</b><br><i>Fuels and Products Group of the Systems Assessment Center, Energy Systems and Infrastructure Analysis</i>            |
| 10:30 a.m. | <b>Break</b>  |           | <b>Nazib Siddique</b><br><i>Computational Simulation Analysis, Energy Systems and Infrastructure Analysis</i>  |
| 11:00 a.m. | <b>Biofuels</b><br><b>Troy Hawkins</b><br><i>Fuels and Products Group of the Systems Assessment Center, Energy Systems and Infrastructure Analysis</i>  | 3:00 p.m. | <b>Materials and Chemicals</b><br><b>Hao Cai</b><br><i>Group Leader, Materials Life Cycle Analysis, Energy Systems and Infrastructure Analysis</i>                       |
|            | <b>Hao Cai</b><br><i>Group Leader, Materials Life Cycle Analysis, Energy Systems and Infrastructure Analysis</i>  |           | <b>Thathiana Benavides Gallego</b><br><i>Energy Systems Analyst, Energy Systems and Infrastructure Analysis</i>  |
| 11:30 a.m. | <b>Hydrogen and Its End Uses</b><br><b>Amgad Elgowainy</b><br><i>Senior Scientist and Group Manager, Electrification and Infrastructure, Energy Systems and Infrastructure Analysis</i>                             | 3:30 p.m. | <b>Break</b>   |
| Noon       | <b>Lunch Break</b>  | 4:00 p.m. | <b>Carbon Capture Utilization and Sequestration (CCUS)</b><br><b>Pingping Sun</b><br><i>Principal Energy Systems Analyst, Energy Systems and Infrastructure Analysis</i> |
| 1:00 p.m.  | <b>Electricity and Battery Electric Vehicles</b><br><b>Zifeng Lu</b><br><i>Principal Energy Systems Scientist, Energy Systems and Infrastructure Analysis</i>   |           | <b>Uisung Lee</b><br><i>Energy Systems Analyst, Energy Systems and Infrastructure Analysis</i>   |
|            | <b>Jarod Kelly</b><br><i>Principal Energy Systems Analyst, Energy Systems and Infrastructure Analysis</i>   | 4:30 p.m. | <b>GREET Applications; General Questions and Inputs from Workshop Participants</b>   |
|            |   | 5:00 p.m. | <b>Adjourn</b>   |



# GREET TRAINING WORKSHOP DAY TWO AGENDA

November 8, 2022

8:20 a.m.—3:30 p.m. CT

Building 240, TCS Conference Center

8:20 a.m. **Welcome Remarks**

**Michael Wang**

*Interim Director of Energy Systems and Infrastructure Analysis Director, Systems Assessment Center—Environmental Assessment Leader*

8:30 a.m. **GREET 1 (Fuel Cycle) Demonstration by Modeling Blocks**

**Uisung Lee and others**

*Energy Systems Analyst, Energy Systems and Infrastructure Analysis*

- Overview (Inputs/Results)
- Biofuels
- Electricity
- Petroleum and Natural Gas
- Hydrogen
- Chemicals and Plastics
- Vehicle Operations

10:00 a.m. **Break**

10:30 a.m. **GREET 2 (Vehicle/Material Cycle) Demonstration**

**Jarod Kelly and others**

*Principal Energy Systems Analyst, Energy Systems and Infrastructure Analysis*

- Materials
- Batteries
- Chemicals

11:30 a.m. **GREET.net Demonstration**

**Zifeng Lu**

*Principal Energy Systems Scientist, Energy Systems and Infrastructure Analysis*

Noon **Case Simulations**

**by GREET Users; Q&A**

12:30 p.m. **Lunch Break**

1:30 p.m. **Breakout Sessions for Deep Dives into Specific GREET Modules**

- Battery and electric vehicles
- Hydrogen and its uses
- Aviation and sustainable aviation fuels
- FDCIC and CCLUB for biofuel feedstocks

3:30 p.m. **Adjourn**

