GYA GHG Initiative:
Fleet Assessment & Analysis, Part II
March 30\textsuperscript{th}, 2010
INTRODUCTION

- GYCC and NREL
- About NREL
  - The DOE’s national laboratory dedicated to integrating energy efficiency and technologies
- About the presenter
  Kristin Day
  Kristin.Day@NREL.GOV
Today’s Webinar

1. Fleet Assessment & Analysis Objective
2. Eco-System Wide Mobile Source Baseline
3. Unit-Specific Mobile Source Baseline
4. Data Collection Status
5. Working Session: Fleet Track Highlights
6. How to Prepare for the Working Session
7. Questions and Contact Information
GYA Fleet Assessment and Analysis Objective

• Develop unit-specific mobile source GHG emissions reduction action plans
• Identify fleet alternatives without compromising each unit’s needs to fulfill their individual mission
• Realize opportunities for ecosystem-wide fleet synergies
GYA Fleet Assessment and Analysis Approach

- Definition of baseline
  - Unit-specific analysis of the current fleet
- Identification of fleet GHG emissions reduction goals
  - How will the mobile source reduction fit in with eco-system-wide reduction goals?
  - Remain sensitive to the needs each particular unit
- Outline available options and emerging technology
  - Perform a unit-specific detailed analysis presenting the effects of integrating various vehicle technologies and GHG reduction methods into their fleets
- Work together to develop fleet specific GHG reduction action plans
Eco-System Wide Mobile Source Baseline

Total GYA-Wide Mobile Source Fuel Usage and GHG Emissions by Vehicle Type

**Total MTCE:** 2,879
Unit-Specific Mobile Source Baseline

Beaverhead-Deerlodge National Forest
Mobile Source Fuel Usage and GHG Emissions by Vehicle Type

Total MTCE: 144
Unit-Specific Mobile Source Baseline

Bridger-Teton National Forest
Mobile Source Fuel Usage and GHG Emissions by Vehicle Type

Total MTCE: 287
Unit-Specific Mobile Source Baseline

Caribou-Targhee National Forest
Mobile Source Fuel Usage and GHG Emissions by Vehicle Type

Total MTCE: 347
Unit-Specific Mobile Source Baseline

Custer National Forest
Mobile Source Fuel Usage and GHG Emissions by Vehicle Type

Total MTCE: 46
Unit-Specific Mobile Source Baseline

Gallatin National Forest
Mobile Source Fuel Usage and GHG Emissions by Vehicle Type

Total MTCE: 211
Unit-Specific Mobile Source Baseline

Grand Teton National Park
Mobile Source Fuel Usage and GHG Emissions by Vehicle Type

Total MTCE: 268
Unit-Specific Mobile Source Baseline

National Elk Refuge
Mobile Source Fuel Usage and GHG Emissions by Vehicle Type

Total MTCE: 59
Unit-Specific Mobile Source Baseline

Red Rock Lakes Wildlife Refuge
Mobile Source Fuel Usage and GHG Emissions by Vehicle Type

- Total Fuel Used (gallons)
- Total GHG Emissions (MTCE)

Total MTCE: 18
Unit-Specific Mobile Source Baseline

Shoshone National Forest
Mobile Source Fuel Usage and GHG Emissions by Vehicle Type

- Total Fuel Used (gallons)
- Total GHG Emissions (MTCE)

Total MTCE: 218
Unit-Specific Mobile Source Baseline

Yellowstone National Park
Mobile Source Fuel Usage and GHG Emissions by Vehicle Type

Total MTCE: 1,282
## Unit-Specific Data Collection Status

<table>
<thead>
<tr>
<th>GYA Unit</th>
<th>Data Collection Sheet Received</th>
<th>FY09 Data Received</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grand Teton National Park</td>
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<td></td>
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<tr>
<td>Yellowstone National Park</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Red Rock Lakes Refuge</td>
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<tr>
<td>National Elf Refuge</td>
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<tr>
<td>Shoshone National Forest</td>
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</tr>
<tr>
<td>Gallatin National Forest</td>
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<tr>
<td>Custer National Forest</td>
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<tr>
<td>Bridger-Teton National Forest</td>
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<td></td>
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<tr>
<td>Beaverhead-Deerlodge National Forest</td>
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</tbody>
</table>
# Unit-Specific Data Collection Status

<table>
<thead>
<tr>
<th>Equipment No.</th>
<th>Agency Owned/ GSA Leased/ Commercial Lease</th>
<th>Vehicle Make</th>
<th>Vehicle Model/Type</th>
<th>Vehicle Model Year</th>
<th>Garaged Location (Street Address)</th>
<th>Law Enforcement/ Emergency Response Vehicle? (Y/N)</th>
<th>Fuel Type</th>
<th>Alt Fuel Capable? (Specify/N)</th>
<th>Fuel Used Units</th>
<th>Miles Traveled or Hours Operated</th>
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</thead>
<tbody>
<tr>
<td>1111</td>
<td>GSA Leased</td>
<td>Chevrolet</td>
<td>Silverado/4WD 6-spd</td>
<td>2009</td>
<td>1617 Cole Blvd Golden, Colorado 80401</td>
<td>N</td>
<td>Gasoline</td>
<td>E-85</td>
<td>1,000 gallons</td>
<td>10,000</td>
</tr>
</tbody>
</table>
Working Session: Fleet Track Highlights

- Goal setting
- Learn to calculate your fleet GHG emissions
- Discover resources and potential partnerships
- Review emerging fleet technologies
- GHG reduction action planning
- And more!
How to Prepare for the Working Session...

- Specify a mobile source reduction goal for your unit
- Start thinking of where you’d like to see your and the eco-system wide fleet in 10 years
- Identify concerns or potential roadblocks to reaching your goals
- Use the charts included in this webinar to help you brainstorm
- Complete the Data Collection Sheet and provide updated Fleet Data ASAP!
- I will send out a reminder e-mail with the above items, but starting considering these now!
Further Resources:

- http://www.nrel.gov
- http://www.epa.gov
- http://www.fueleconomy.gov
- http://www1.eere.energy.gov/cleancities/
Some Dates to Remember

- Greater Yellowstone Interagency Climate Action Plan Working Session:
  - April 19\textsuperscript{th}-22\textsuperscript{nd}, Bozeman, MT
Questions and Follow-Up

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