Housekeeping

• Workgroup members have the opportunity to actively participate throughout the meeting
  – Ask that you keep yourselves muted unless / until you would like to speak
• We will ask and take questions throughout the session
• All other attendees/observers are in listen-only mode
• Observers are free to submit questions in the Zoom Q&A dialog
• We will follow up via email to answer any questions not addressed during the meeting
• The slides and a recording of the presentation will be posted online
• Solicit feedback on the proposed approach for baseline setting
Introductions

Reserve Staff:
• Jon Remucal, Associate Director of Nature-Based Solutions
  – Protocol development lead
• Holly Davison, Associate Director of Programs & Marissa Spence, Forestry Manager
  – Protocol development support

External drafting support:
• John Nickerson, Dogwood Springs Forestry
<table>
<thead>
<tr>
<th>Name (alphabetical)</th>
<th>Organization</th>
</tr>
</thead>
<tbody>
<tr>
<td>Akio Enders</td>
<td>International Biochar Initiative</td>
</tr>
<tr>
<td>Allison Flynn</td>
<td>Arq</td>
</tr>
<tr>
<td>Bruce Springsteen</td>
<td>Placer County Air Pollution Control District</td>
</tr>
<tr>
<td>Daniel Sanchez</td>
<td>University of California - Berkeley</td>
</tr>
<tr>
<td>David Morell</td>
<td>Sonoma Ecology Center</td>
</tr>
<tr>
<td>Hannes Etter</td>
<td>South Pole Carbon Asset</td>
</tr>
<tr>
<td>Jeff Cole</td>
<td>Royal Dutch Shell</td>
</tr>
<tr>
<td>Johannes Lehmann</td>
<td>Cornell University</td>
</tr>
<tr>
<td>Jonah Levine</td>
<td>Biochar Solutions</td>
</tr>
<tr>
<td>Xiaomei Li</td>
<td>Viresco Solutions</td>
</tr>
<tr>
<td>Josiah Hunt</td>
<td>Pacific Biochar</td>
</tr>
<tr>
<td>Kevin Fingerman</td>
<td>Humboldt State University</td>
</tr>
<tr>
<td>Matt Ramlow</td>
<td>World Resources Institute</td>
</tr>
<tr>
<td>Melissa Leung</td>
<td>GECA Environment</td>
</tr>
<tr>
<td>Micah Elias</td>
<td>Blue Forest Conservation / UC - Berkeley</td>
</tr>
<tr>
<td>Nate Anderson</td>
<td>US Forest Service</td>
</tr>
<tr>
<td>Patricio Ortiz</td>
<td>ACT Commodities</td>
</tr>
<tr>
<td>Phil Saksa</td>
<td>Blue Forest Conservation</td>
</tr>
<tr>
<td>Rachel Rubin</td>
<td>Woodwell Climate Research Center*</td>
</tr>
<tr>
<td>Shawn McMahon</td>
<td>Aster Global</td>
</tr>
<tr>
<td>Tristan Brown</td>
<td>SUNY College of Environmental Science &amp; Forestry</td>
</tr>
</tbody>
</table>
Funding support

- Companion market analysis by Blue Forest Conservation (with additional funding support from the Doris Duke Charitable Foundation), now available on the Biochar Protocol webpage
- Pilot projects to test protocol and demonstrate its viability and versatility
BASELINE SETTING
A counterfactual representation of the GHG emissions and/or removals that would have occurred in the absence of the project.

- Provides basis for comparison of GHG and C outcomes resulting from the project to determine the net climate benefit.
- Involves qualitative characterization and quantitative characterization
What is a baseline for biochar?

What would have happened to the project’s feedstocks if they were not used to produce biochar?

– What is the qualitative characterization of the fate of the feedstock?
– What GHG emissions would have occurred?
– Would some of the C remained sequestered temporarily or permanently?

Primary qualitative distinction based on general feedstock type:
• Waste/by-products
• Purpose-grown (i.e., biomass grown specifically to produce biochar)
Climate benefits derived from decreasing emissions and increasing the amount of C sequestered relative to the baseline scenario.
Considering including retained baseline C under certain circumstances (e.g., combusted woody biomass baseline)

Examined temporal aspects of baseline sequestered C (e.g., portion of residual wood in burn pile not combusting but decomposing over time), but decided on simpler approach with a default rate of retention
Purpose-Grown Feedstocks

C Stocks

Start of project

Baseline

Project

Time
Concern is for situations where site with higher C stocking is converted for production of purpose-grown feedstocks.
NEXT STEPS
Next Steps

- Email comments/feedback on baselines by December 16
- Reach out any time to discuss protocol topics or process
- Protocol drafting by Reserve staff – ongoing
- Workgroup Meeting 4 – End use eligibility and permanence – Thursday, December 15, 9:00 am Pacific
Key contacts

Protocol development lead:
Jon Remucal, Associate Director of Nature-Based Solutions
jremucal@climateactionreserve.org

General inquiries:
Policy@climateactionreserve.org