The FAA Office of Environment and Energy is responsible for addressing aviation environmental challenges such as noise, local air quality and greenhouse gas emissions. In response to stakeholder concerns about fuel supply security and the need for technologies to enable environmentally sustainable aviation growth, FAA has launched the Commercial Aviation Alternative Fuels Initiative (CAAFI) in partnership with airlines, airports, and manufacturers. The CAAFI process seeks to aggregate and communicate data needed by sponsors and stakeholders to allow them to develop and deploy alternative fuels for aviation use in the earliest possible timeframe. In this manner the CAAFI seeks to ensure an affordable and stable supply of environmentally progressive aviation fuels. A key part of the CAAFI process is the creation of roadmaps for its four process teams (R&D, Certification/Qualification, Environmental and Business and economics). The R&D and Environmental Roadmaps, highlight in place and planned efforts in those areas by CAAFI sponsors and Stakeholders. Efforts include FAA environmental life cycle, emissions measurement and fuel feasibility assessments. They also include current efforts and plans of the multiple government agencies and as well as private industry. These roadmaps, to be updated in November at CAAFI’s annual meeting should be particularly useful to SERDP to assist in targeting the closure of R&D gaps in its proposed programs.