

MAY 2024

## RTD FACILITIES & FLEET TRANSITION PLAN (FFTP) UPDATE

This FFTP update details work completed during the last month and summarizes the project's next steps.

The FFTP is being developed in two distinct phases. Phase 1 is an initial screening analysis of five alternative fuels/technologies based on their respective impacts to fleet, facilities, workforce and training, costs, and emissions. Six discrete reports, listed below, are being developed as part of Phase 1 and will inform a decision regarding fuel/technology selection. In Phase 2, tailored technical plans, which advance Phase 1 reports, will be developed for the selected fuels/technologies, ultimately culminating into the Blueprint and FTA Plan. The Blueprint and FTA Plan will outline the steps RTD needs to take to complete its transition to new fuels/technologies.

### Fleet Fuels/Technology Assessment

RTD and the project team continued to advance the Fleet Fuels/Technology Assessment, which analyzes the fleet mix required to support the projected fixed-route services detailed in the System Optimization Plan (SOP). Transitioning to a new fleet propulsion technology will have significant impacts on RTD's fixed-route bus operations, so assessing the operational impacts of different proposed fuels/technologies is a critical step in the FFTP. The Fleet Fuels/Technology Assessment was finalized in the past month.

### Facilities Siting Assessment

RTD's bus facilities will need to support new fleet fuels/technologies, along with the operations changes recommended by the System Optimization Plan (SOP); part of this process involves identifying potential sites for future operations & maintenance (O&M) facilities. The project team conducted a geospatial analysis of existing RTD-owned parcels to screen and identify optimal O&M facility locations. The project team met with RTD staff to present initial findings from this siting assessment. A draft assessment, which incorporated feedback from RTD staff, was submitted for review, and RTD has returned comments to the consultant.

### Emissions Assessment

Establishing an understanding of current emissions for all RTD facilities and fleet vehicles is critical to meeting RTD's emission reduction goals. The Emissions Assessment estimates Scope 1 and Scope 2 emissions across RTD's facilities and fleet, with a primary focus on CO2 emissions. In addition to establishing this baseline, the assessment identifies strategies for reducing emissions. The project team recently met with RTD staff to present initial findings from this siting assessment analysis. A draft assessment, which incorporated feedback from RTD staff, was submitted for review, and RTD is currently providing comments on the draft.

### Workforce and Training Assessment

The FFTP will also ensure that RTD's workforce is prepared for the adoption of new fleet fuels/technologies. This evaluation involves understanding RTD's current organizational structures, staffing levels, and training frameworks. The project team met with RTD staff to present initial findings from the assessment, and will provide RTD with a draft of the final report in the coming month.

### Facilities Assessment

Part of the FFTP scope of work includes a facilities assessment, which looks at what changes would need to be made at RTD's existing facilities to support a new fleet technology. The project team met with RTD staff to present initial findings from this assessment, and will provide RTD with a draft of the final report in the coming month.

### Financial Analysis

Part of the FFTP scope of work includes a financial analysis, which will quantify the costs associated with transitioning RTD's facilities and fleet to various propulsion technologies, as well as identify potential funding sources to help pay for future needs. The project team will meet with RTD staff in the coming weeks to present initial findings from this analysis.

A Board Study Session is scheduled in early June to explore topics related to facilities and fleet transition in more detail.

**The project team is on track to complete the Facilities & Fleet Transition Plan by December 15, 2024.**