



Sustainable Freight Advisory Committee

Zero-Emission Top Handlers Recommendation

The SFAC recommends to the Mayor and the Port of Los Angeles that by December 31, 2016, the Port issue an RFP for the demonstration of zero-emission top handlers at one or more port terminals. The project should include the following elements:

- Demonstration of top handlers from two or more OEMs to provide comparative information on different system technologies.
- Integration of the zero-emission top handlers with electric UTRs in terminal operations to demonstrate the potential for these technologies to work as a system.
- Demonstrate the ability to move containers in rail operations entirely using zero-emission equipment (UTR, top handler, RMG). Following the successful demonstration of the equipment in a rail operation, further demonstrate the technology in all other terminal operations in order to demonstrate the feasibility of the equipment in all applications it could eventually be asked to serve.
- Collection of key performance indicators, including operational, criteria pollutant emissions, energy usage, and GHG emissions data documented in a publicly available report together with a comprehensive economic analysis documenting all capital, operating, maintenance and overall life-cycle compared to traditionally fueled equipment. Performance testing to first take place in rail operations so that an electrified unit can be compared against a traditionally fueled unit (a unit typically consists of 2 top handlers and 6 to 7 UTRs), with additional performance testing in other applications to follow the successful demonstration in the rail operation.
- Identify opportunities and barriers to ensure standardization of charging infrastructure and fittings for both top handlers and UTRs.