



**long beach**  
airport

# LGB-SCAQMD MOU Bi-Annual Status Report June 2020

LONG BEACH AIRPORT



# Contents

- LGB-SCAQMD MOU
  - LGB GSE Emission Factor Targets & Existing Fleet Mix (by Fuel Type)
  - Airport Actions re: GSE Charging Infrastructure
  - GSE Charging Infrastructure
  - New/Replacement Chargers
  - Schedule
  - GSE Operator Actions





# LGB GSE Targets & Existing Fleet Mix (by Fuel Type)

- LGB GSE Emission Factor Targets
  - 2023 NO<sub>x</sub> 0.93 g/bhp-hr
  - 2031 NO<sub>x</sub> 0.44 g/bhp-hr
- LGB Existing GSE Fleet Mix
  - Electric = 48%
  - Diesel = 31%
  - Gasoline = 17%
  - LPG/Propane = 4%



# Airport Actions re: Charging Infrastructure



long beach airport

- GSE Chargers at All 11 Passenger Aircraft Parking Positions
- Additional Chargers in GSE Storage/Staging Areas





# GSE Charging Infrastructure

- Replacement of five (5) Existing GSE Chargers
  - Existing Units over 20 years old
  - High Failure Rates
  - Replacement parts discontinued, high maintenance costs, inefficient



- Installation of ten (10) New GSE Chargers



# New/Replacement Chargers

- Posichargers
  - 40kW
  - 500A single plug, 250A Dual
  - BMID Control
    - Intelligent/Multi Purpose Charging
    - Equalization of Batteries
  - Charge both Lead-acid and Lithium at the same time
  - Less than 10W of power usage during idle





# Schedule

- Final Phase of GSE Charger Installation/Replacement Project Completed in February 2020



# GSE Operator Actions

- In Early 2020 GSE Operators Began:
  - Assessment of GSE at LGB – Identification of equipment that may need to be replaced
  - Evaluation of available cleaner burner and electric GSE – Coordination with vendors
  - Budget planning for future GSE capital expenditures for replacements, availability of grants and economic incentives
- COVID-19 impacts are forcing airports, airlines, and GSE operators to reevaluate capital plans and allocation resources



# Questions

- Questions

