

Long Beach Airport

Update on Sustainability

September 24, 2020



Long Beach Airport

Long Beach Airport will develop a plan to lead the nation on sustainability for airports and work with the airlines serving LGB and other partners to become an incubator of clean technology in aviation, with goals of becoming a carbon neutral facility.

Mayor Robert Garcia

August 14, 2018



Contents

- Previous Update
- Impacts of COVID-19
- MOU with South Coast Air Quality Management District (SCAQMD)
- The Good Traveler Program
- Actions by Tenants
- Electric Vehicles
- GSE Chargers Improvement Projects
- Looking Ahead



Previous Update

- Gate Power and Air Conditioning
- On-Airport Parking
- Water Conservation Efforts
- Stormwater Pollution Prevention Plan
- Energy Reduction Efforts
- Community Noise
- Air Quality Implementation Plan (AQIP)

Impacts of COVID-19

- Unprecedented impact on the aviation industry:
 - Significant reduction in operations and passengers means significant reduction in revenue
 - Airports, airlines and airline manufacturers all severely impacted
 - Passenger traffic decreased 85-90%
- Recent increase in operations and passengers at LGB in August
- All projects are being evaluated amid budget cuts, but Sustainability is a priority
- LGB is committed to becoming a leader in Sustainability for airports

MOU with SCAQMD

- **LGB entered into a voluntary MOU with South Coast Air Quality Management District (SCAQMD)**
 - **Significant reductions in NOx emissions needed**
 - **Airports in the region to implement clean air action plans for non-aircraft mobile sources**
- **Purpose of the MOU**
 - **Identify emission reduction benefits and how they will be quantified through the implementation of voluntary airport strategies outlined in the Airport's Air Quality Improvement Plan (AQIP)**
 - **Emission reduction benefits from specific measures in the AQIP will be used by SCAQMD to obtain California State Implementation Plan (SIP) credits**
- **Long Beach Airport AQIP Measure**
 - **Ground Support Equipment (GSE) NOx emission reductions**



The Good Traveler Program

- Ability to voluntarily offset environmental impact of your travel
- Created by San Diego International Airport and managed by the nonprofit Rocky Mountain Institute
- Purchase of carbon offsets
 - Log into website and estimate your distance traveled
 - Offset all or a portion of your travel
- Money goes to projects that are certified to offset impacts from air or road travel



LEAVES NO TRACE

<https://thegoodtraveler.org/how-it-works/projects/>

Aeroplex Solar Project

- **System Size:**
 - 381 kW
 - 940 panels spanning over 55,000 sq. ft.
- **Electricity Generation: 570 kWh generated annually**
- **Removes from the air annually:**
 - 200 asthma-inducing particulates
 - 3,200+ lbs of NOx
 - 2,900+ lbs of sulfur dioxide
 - 1 million lbs of carbon dioxide emissions



Aeroplex Solar Project (cont.)

- The installation impact is equivalent to:
 - Eliminating 1.07 million car miles annually
 - Planting 563 acres of trees
 - Charging about 55 million smart phones



Electric Vehicle Purchases

- Replaced two older vehicles with the purchase of two electric Chevy Bolts
- AQIP initiative – Airport-utilized Clean Fleet Policy

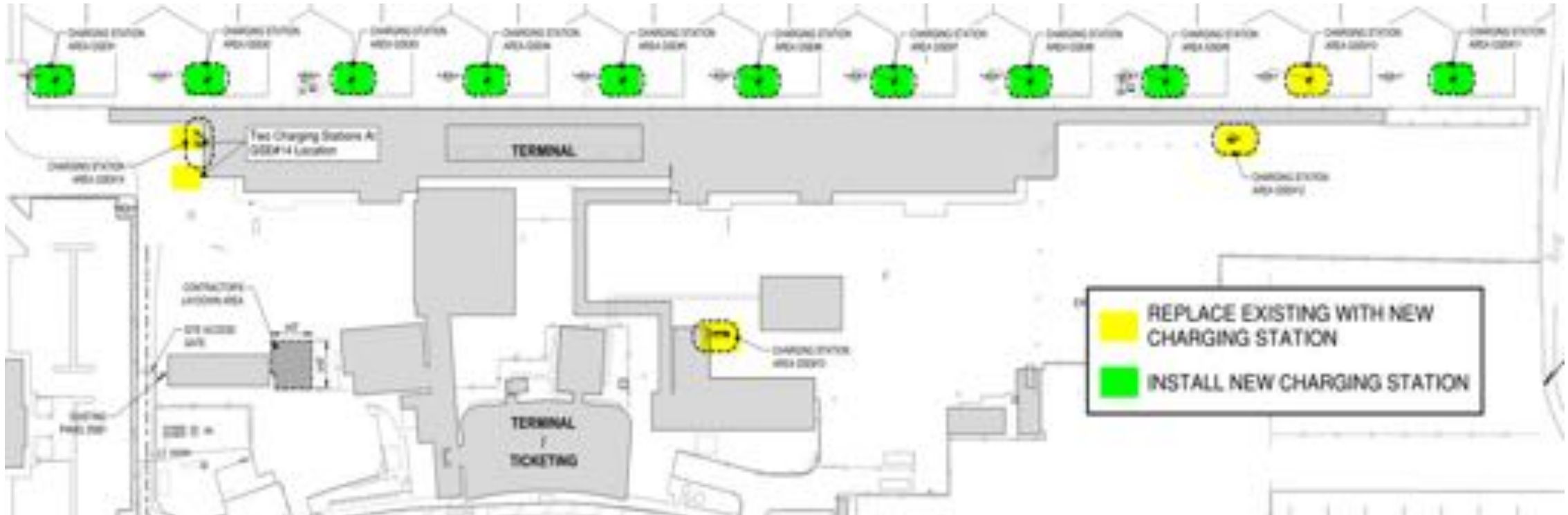


GSE Chargers Improvement Project

- **Project Objective**
 - **Replacement of five existing electric GSE chargers**
 - Existing units 20+ years old
 - High failure rates
 - Replacement parts are expensive and discontinued
 - High maintenance cost and inefficient
 - **Installation of ten (10) new electric GSE chargers**
 - **100% electrification at all eleven (11) commercial gates**
 - **Facilitate Airlines' GSE conversion to electric fleet and put LGB in a great position to achieve the aggressive targets for emission reductions outlined in the MOU**



GSE Chargers Improvement Project



GSE Chargers Improvement Project

- **Posichargers**
 - 40kW
 - 500 A single plug, 250 A dual
 - BMID Control
 - Intelligent/Multi-Purpose Charging
 - Equalization of batteries
 - Charges both Lead-acid and Lithium at the same time
 - Less than 10W of power usage during idle
 - Great response from the airlines



*Featured in the May/June
Edition of Airport Improvement
Magazine*



Looking Ahead

- Collection of baseline sustainability data
 - Emissions
 - Waste Minimization and Recycling
 - Water
 - Electricity
 - Natural gas
- Preparing an RFP for the development of a Sustainability Action Plan
- Seeking Airport Carbon Accreditation (ACA)

Long Beach Airport

Thank You



Long Beach Airport

Questions?

