PHOENIX SKY HARBOR INTERNATIONAL AIRPORT
CARBON REDUCTION POLICY AND STRATEGY

The Federal Aviation Administration reports that aviation activity, which includes airports, airlines and other aviation stakeholders, accounts for 3.4% of total CO2 emissions in the United States*. Although airports represent a small portion of this 3.4%, airports have a responsibility to manage and reduce their carbon footprint.

The City of Phoenix Aviation Department places importance on climate protection and believes there is further potential for managing and reducing carbon emissions despite a steadily growing airport infrastructure. Phoenix Sky Harbor International Airport (PHX) has initiated a strategy to raise the profile of emission reduction across all functional areas it controls or influences utilizing the globally-endorsed Airport Carbon Accreditation Program.

PHX set a 10% carbon reduction target by 2020 using 2014 as the baseline year and has met this goal early in 2017. The City of Phoenix has set an interim target for all City Departments of a 40% reduction by 2025, and a voluntary goal of achieving carbon neutrality in direct and indirect emissions under the control of the airport by 2060.

According to PHX’s 2017 Airport Carbon and Emissions Reduction Toolkit (ACERT) inventory, approximately 90% of airport-controlled emissions comes from the purchase of electricity, while the remaining 10% is derived from the use of fuels for airport-owned fleet vehicles, emergency generators, and heating. It is therefore crucial for the airport to focus on energy conservation to reduce its carbon footprint.

**Recommendations**

**Energy Conservation Retrofits:** The use of a strategy to reduce energy consumption will reduce airport-owned carbon emissions and utility costs. PHX is committed to focus on measures that will yield the greatest benefit over the long term. To this purpose, Facilities and Services Division completed energy audits and ranked Energy Conservation Measures (ECMs) that could be implemented by the Department, culminating to a Strategic Energy Management Plan. Several ECMs have been implemented, resulting in over 10% reduction in energy consumption.

**New construction:** PHX will work to ensure new airport construction projects use high energy efficiency standards and equipment. Design and Construction Services Division is responsible for selection of equipment that can minimize long-term carbon emissions associated with energy use. Taking this impact into account during cost estimation, and using energy modeling and life cycle cost tools, new construction can be used to take advantage of new technologies.

Inventory: An annual inventory of airport-owned and operated sources of carbon emissions will be completed using the guidelines published as the Airport Carbon Accreditation Guidance Document to focus our efforts and check outcomes.

This 2018 update to the PHX Carbon Reduction Policy and Strategy has been shared by the Aviation Divisions to prioritize activities and funding and shall be communicated to employees and the airport community.

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