

SBP AIRPORT CARBON ACCREDITATION

CARBON MANAGEMENT PLAN

MAY 2023

CARBON MANAGEMENT PLAN PURPOSE

The County of San Luis Obispo Department of Airports (Department) has developed a Carbon Management Plan to support the reduction of carbon emissions at San Luis Obispo County Regional Airport (SBP or the Airport). The purpose of this Carbon Management Plan is to demonstrate the meaningful efforts by the Airport to reduce its emissions in line with the set target of 30 percent by 2033. After its initial development, this Carbon Management Plan will be updated at least every three years.

Responsibility, Resource Allocation, and Organizational Structure

SBP has appointed Courtney Pene, Deputy Director, as the Airport Carbon Management Manager to lead the efforts of the ACI certification and the Carbon Management Plan. SBP has developed a Carbon Management Plan Committee to define the strategic direction for the Airport, ensure targets and action plans are realistic and resources are allocated appropriately, and review progress throughout the three-year planning period. The plan manager and committee are defined in the table below.

Table 1: Carbon Management Plan Committee

Name	Title	CMPC Role
Courtney Pene	Deputy Director, Planning & Outreach	Manager
Tim O’Keefe	Operations Supervisor	Committee Member
Chip Spence	Administrative Services Officer	Committee Member

Carbon Management Initiatives

SBP is dedicated to implementing carbon reduction measures at the Airport, and they have exemplified this commitment by building the terminal to LEED Gold standards and planning their subscription to the California Community Choice Aggregation (CCA) program in January 2025. SBP intends to replace their existing Dodge Caravan with the Ford F-150 Lightning all-electric pickup truck, and when available, three additional F-150 Lightning pickup trucks will be added to the fleet.



Future initiatives that are being considered for implementation at SBP were developed as part of the research and analysis by both SBP and the California Polytechnic State University’s (CalPoly) City and Regional Planning Master’s Program. The CalPoly students researched local Climate Action Plans and Sustainability Plans to identify synergies and alignment opportunities. The analysis considers the background and modeling of future emission reduction opportunities to best suit SBP. **Appendix A** contains the reports and analysis on each initiative. Recommended initiatives include:

- ▶ Gate electrification
- ▶ Alternative fuel
- ▶ Use of solar power
- ▶ Ground source heat pumps
- ▶ Battery storage and DC microgrid
- ▶ Sustainability programs

Reporting Emissions Reduction Performance

The recommended initiatives have the potential to lower carbon emissions at SBP. Based on CalPoly’s research, the following reduction estimates can be assumed:

- ▶ Gate electrification could reduce emissions by 63-97%
- ▶ Alternative fuel could reduce emissions by 30%
- ▶ Use of solar power could reduce emissions by over 25%
- ▶ Ground source heat pumps could result in a decrease of building energy use by 25-50%

Implementation Plan

SBP’s implementation strategy is to develop a matrix that can be integrated with the Department’s Strategic Plan, which is a living spreadsheet that organizes the Department’s environmental initiatives. This matrix will provide a plan in which carbon management initiatives that have been decided will be carried out. The matrix will prioritize each project design and provide a set of action items for each project design. **Table 2** identifies the topics that will be reviewed for each initiative. **Appendix B** contains the initiatives that will be considered and prioritized through the 10-year planning process, up to 2050, and beyond.

Table 2: SBP Implementation Plan

San Luis Obispo Carbon Emissions Implementation Plan Matrix Topics	
▶ Objective	▶ Justification
▶ Project Goal	▶ Goal Priority
▶ Management Role	▶ Staffing Needs and Resources
▶ Costs	▶ Funding Opportunities
▶ Schedule	▶ Duration
▶ Key Performance Indicators (KPIs)	▶ Reporting



The target for emissions reduction was determined to be an intensity target. Based on the Science Based Target Initiative (SBTi), the target amounts to a 3-percent reduction each year for up to 10 years to reach a 30 percent reduction by 2033 from the baseline year of 2022. The target will be reevaluated once three years of historical data is tracked and available (2023-2026). Data will be tracked every year using the ACI ACERT tool to keep current records in SBP's database. The Carbon Management Plan will include the following action items to implement this plan:

- ▶ Largest hotspots – identifying sources that are emitting the highest percentage of carbon dioxide emissions and developing solutions for reduction.
- ▶ Carbon reduction – prioritizing initiatives.
- ▶ Cost – determining costs for each initiative and determining if FAA grant funding or other funding is available.
- ▶ Return on investment – determining the ROI that can be expected from a project versus the actual cost of the project.
- ▶ Cost benefit – determining all benefits that are associated with the initiative, including financial and non-financial benefits.

Communication, Awareness, and Training

- ▶ SBP will develop and publish an annual sustainability report that includes all efforts made on reducing emissions.
- ▶ SBP will continue to work with CalPoly in developing recommended policies for the implementation of the Carbon Management Plan.
- ▶ SBP will identify certification training and invite stakeholders and tenants to participate.
- ▶ SBP will identify regulatory policies to incorporate into the management plan.

Audit and Self-assessment

SBP's Carbon Management Plan Committee will track the progress of SBP's carbon emissions, carbon management plan, and reduction targets by evaluating the yearly performance. This includes also recording inventory of existing initiatives and new initiatives that have been implemented within each year. At the three-year mark of the plan development (2023-2026), SBP will update the full Carbon Management Plan, including inventory, carbon footprint, and emissions reduction targets.

