

## **Appendix D – Sustainability Management Plan (SMP)**

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# Sustainability Management Plan

March Inland Port Airport Authority

Riverside County, California

FAA AIP No.: 3-06-0201-015-2021

Prepared by:



June 2023

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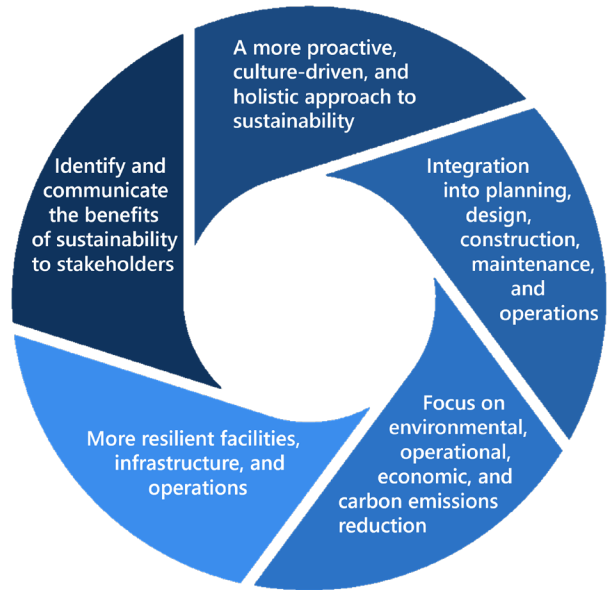
# 1 Introduction

A Sustainability Management Plan (SMP) aims to institutionalize finding solutions to improve the environmental, economic, operational, and societal impacts of the Airport through long-range planning. The SMP will serve as a roadmap for how the Airport can advance the sustainability initiatives outlined in this chapter, including providing a structure for sustainability focus areas and proposed goals. The SMP also includes a decision-making framework that screens the initiatives identified through stakeholder engagement activities to generate a list of high-value sustainability initiatives to be implemented in the short-term. In addition, consideration was given to integrating these recommended initiatives into the Master Plan recommendations and the Airport’s future capital improvement program, as well as potential funding sources.

Sustainability is defined by the United Nations as “the ability to meet the needs of the present without compromising the ability of future generations to meet their own needs”. The SMP outlined for MJPA in this chapter leverages the triple-bottom line approach to sustainability, in which environmental, economic, and social benefits are considered. Airports Council International-North America (ACI-NA) has expanded on this triple bottom line approach for the aviation industry to also include Operational Efficiency. This sustainability framework is often used by airports as it balances Economic Viability, Operational Efficiency, Natural Resource Conservation, and Social Responsibility (EONS) as shown in **Figure 1.2**.

The FAA provides airports across the country with grant funding to develop comprehensive sustainability planning documents. These documents include initiatives for reducing

**Figure 1.4 - Purpose of a Sustainability Management Plan**



Source: C&S Engineers, Inc.

**Figure 1.1 - Aviation Sustainability Framework**



Source: C&S Engineers, Inc.

environmental impacts, achieving economic benefit, and increasing integration with local communities. The FAA views sustainability in master planning as a way to fully integrate sustainability into an airport's long-range planning. A Sustainable Management Plan is a stand-alone document that uses baseline assessments of environmental resources and community outreach to identify sustainability objectives that will reduce environmental impacts, realize economic benefits, and improve community relations.

## 1.1 Local Context and Initiatives

This section describes relevant initiatives from the surrounding cities and County, related to sustainability that have been completed, ongoing, or will be underway in the near future. MJPA is committed to promoting sustainable practices and minimizing its impact with the help of its surrounding communities. To achieve this goal, MJPA looks to the City of Perris, City of Riverside, City of Moreno Valley, and Riverside County, who each have a set of sustainable practices and initiatives that serves as a model for their local communities. By following the lead of these entities, MJPA is encouraged to implement several of these unique programs and ideas that help promote environmental friendliness and positive change.

### **Riverside County**

Riverside County has been pursuing sustainable practices to improve the quality of life for its residents and protect the environment for future generations. The County has implemented a variety of initiatives and plans aimed to reducing waste, conserving natural resources, and increasing economic benefits through cost savings.

Riverside County has done the following to promote environmental stewardship:

**Sustainable Building Policy** - The Sustainable Building Policy Riverside County<sup>1</sup> was established to encourage sustainable building practices in the design of county capital improvement projects to reduce pollution, protect natural resources, enhance asset value, optimize building performance, and create healthier workplaces for county employees. Below are other specific practices outlined in the policy that promote efficiency and sustainability:

- ◆ Help reduce operating cost associated with heating, ventilation, and air conditioning (HVAC) systems, lighting systems, municipal water consumption, storm water management, solid waste disposal, and recycling
- ◆ Preserve natural vegetation
- ◆ Conserve natural resources

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<sup>1</sup><https://rivcocob.org/sites/g/files/aldnop311/files/migrated/boardpolicies-policy-h-POLICY-H29.pdf#:~:text=It%20is%20the%20intention%20of%20this%20policy%20to,performance%2C%20and%20create%20healthier%20workplaces%20for%20county%20employees.>

- ◆ Promote use of non-toxic and/or recycled-content building materials
- ◆ Use water and energy efficiently
- ◆ Use certified sustainable wood products
- ◆ Incorporate recycling activities
- ◆ Provide convenient access to public transportation
- ◆ Design flexible interior spaces to minimize tenant improvements when reassigning space
- ◆ Recycle construction and demolition waste
- ◆ Improve indoor air quality with little or no off-gassing from volatile organic compounds (VOC)

The County Department of Waste Resources<sup>2</sup> programs have implemented various measures to promote water and food recycling through its “Don’t Waste, Donate!” program in Riverside County. The program encourages residents and businesses to reduce their waste and promote the use of wells and aquifers for natural replenishment of groundwater. Riverside County also conducts Community Clean Ups.

**Table 1.1 - Riverside County Sustainability Initiatives**

	Economic Vitality	Operational Efficiency	Natural Resource Conservation	Social Responsibility
<b>Sustainable Building Policy</b>	X	X	X	X
<b>The Department of Waste Resource Programs</b>				
Don’t Waste, Donate!	X	X	X	X
Volunteering			X	X
Free vermicomposting/composting			X	
Community Clean Up			X	X

Source: C&S Engineers, Inc.

**City of Perris**

The City of Perris was nominated as the first place recipient in the U.S. Conference of Mayors for a grant that would support the development of 31 community gardens to provide sustainable methods and access to healthy foods in the community. They are also working in partnership with local school districts, faith-based organizations, and community-based organizations, in addition to the City’s established and adopted 20+ community gardens. This process of incorporating sustainability and environmental resources has been developed into a collaborative initiative that includes public and private partnerships, again, including local school

<sup>2</sup> <https://rcwaste.org/about-us>



districts, county agencies, and local health organizations – where local partners are able to share resources, provide support, and aid improving health outcomes to Perris residents.

The City of Perris has initiated the following programs to promote sustainability:

- ◆ **Grow Perris<sup>3</sup>**: an initiative that aims to improve the health outcome by expanding health equity through urban farming and creation of platforms to promote healthy behaviors, under its City-wide public health campaign, “Live Well Perris”. Grow Perris is involved with the community for the following reasons:
  - ◆ Reduce the risk of chronic diseases among Perris residents and improve their overall wellbeing.
  - ◆ Increase accessibility and affordability of healthy foods to underserved communities.
  - ◆ Develop 31 food gardens throughout the City to create a sustainability platform of crop development, sale, and health education.
  - ◆ Create platforms for promoting healthy behaviors through collaboration with community-based organizations and City health education programs at community garden sites.
- ◆ **Perris Green City Farm**: provides an urban community demonstrating garden designed as a replicable model for urban farming and introducing modern growing systems such as, soil-less hydroponic, aeroponic, and aquaponic ideal for urban settings with environmentally friendly and water-wise landscaping elements.
- ◆ The City of Perris holds several events such as, Yoga in the Garden, Junior Master Gardener Program, Workforce Development Programming, and Garden Tours and Field Trips to increase awareness of the green resources the City has to offer
- ◆ **Farm to School**: a program that supports students and teachers in cultivating and harvesting sufficient fresh fruits and vegetables in their school cafeteria.

The City of Perris has made significant strides in promoting sustainability through the adaptation of new resources and techniques. Several examples of sustainability in construction includes:

- ◆ The City is home to the Hanesbrands Inc. Distribution Center<sup>4</sup>, which is referenced as the largest environmentally friendly structure in the world due to its latest techniques aimed at reducing energy usage and pollution, while contributing to the City’s commitment for sustainability in construction and building. The building has employed water-efficient landscaping and is reducing its energy consumption by using natural lighting and roof insulation. During the construction phase, 50 percent of the building waste was recycled and 20 percent of the building materials contained recycled components.

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<sup>3</sup> [Grow Perris | City of Perris, CA](#)

<sup>4</sup> [11158 \(cityofperris.org\)](#)

- ◆ The City of Perris has also adapted the largest array of solar collectors at Whirlpool Corp’s Distribution Center<sup>5</sup>, which has allowed them to install 32,700 solar panels, that will collect 10-megawatts of electricity.
- ◆ Provide low-cost loans and grants to residences and businesses that install energy-efficient appliances, light fixtures, and irrigation systems.
- ◆ Additionally, the City of Perris has also provided solar-powered bus stops<sup>6</sup> throughout the City and has continued to keep their promise of providing safe and reliable water and wastewater management services<sup>7</sup> to the community.

**Table 1.2 - City of Perris Sustainability Initiatives**

		Economic Vitality	Operational Efficiency	Natural Resource Conservation	Social Responsibility
<b>Grow Perris Events</b>	Green City Farm			X	X
	Yoga in Garden				X
	Junior Master Gardner Program			X	X
	Workforce Development Programming	X			X
	Garden Tours and Field Trips			X	X
	Farm to School			X	X
<b>Other City of Perris Initiatives</b>	Hanesbrands Inc. Distribution Center	X	X	X	X
	Solar Collectors at Whirlpool Corp’s Distribution Center	X	X	X	X
	Solar-Powered Bus Stops	X	X	X	X
	Water and Wastewater Management Service			X	X

Source: C&S Engineers, Inc.

**City of Riverside**

The City of Riverside is committed to making their city a greener place to live by supporting renewable energy, responsible purchasing and design, and sustainable living practices. The City’s Envision Riverside Strategic Plan 2025<sup>8</sup> identifies a clear vision for the future of Riverside’s economy, community, and environment – as important vision to keep in mind when identifying sustainability principles. The Plan identified five major themes to be reflected throughout the process (Community Trust, Equity, Fiscal Responsibility, Innovation, and Sustainability and Resilience) and all recommendations were evaluated by the triple bottom line of social,

<sup>5</sup> [BUSINESS: Perris warehouse to get solar roof – Press Enterprise](#)

<sup>6</sup> [10336 \(cityofperris.org\)](#)

<sup>7</sup> [Microsoft Word - 2726.doc \(cityofperris.org\)](#)

<sup>8</sup> <https://online.fliphtml5.com/ltghc/dvxo/>

economic, and environmental impacts. Six strategic priorities were adopted with associated goals:

- ◆ **Arts, Culture and Recreation** – Provide diverse community experiences and personal enrichment opportunities for people of all ages.
- ◆ **Community Well-Being** – Ensure safe and inclusive neighborhoods where everyone can thrive.
- ◆ **Economic Opportunity** – Champion a thriving, enduring economy that provides opportunity for all.
- ◆ **Environmental Stewardship** – Champion proactive and equitable climate solutions based in science to ensure clean air, safe water, a vibrant natural world, and a resilient green new economy for current and future generations.
- ◆ **High Performing Government** – Provide world class public service that is efficient, accessible and responsive to all.
- ◆ **Infrastructure, Mobility and Connectivity** – Ensure safe, reliable infrastructure that benefits the community and facilitates connection between people, place and information.

The action items and relevant performance metric associated with each priority display the dedication to sustainable and resilient initiatives, programs, and policies that could inform RIV's progress.

### **City of Moreno Valley**

The City of Moreno Valley is committed to the safety, environment, sustainability, and quality of life in the community. The City of Moreno Valley has established and supported several programs to help residents and business owners' function in a sustainable and efficient manner. Below illustrates several ways the City has implemented sustainability within their community.

- ◆ **Energy Efficiency and Climate Action Strategy<sup>9</sup> (2012)** - the Action Strategy identifies ways that the City of Moreno Valley can reduce energy and water consumption and greenhouse gas emissions as an organization (its employees and the operation of its facilities) and outlines the actions that the City can encourage, and community members can employ, to reduce their own energy and water consumption and GHG emissions.
- ◆ **G.R.E.E.N MoVal<sup>10</sup>** - G.R.E.E.N MoVal provides incentives to encourage residents and businesses to become more energy efficient.
- ◆ **City of Moreno Valley (MoVal) 2040 General Plan** - adopted on June 15, 2021<sup>11</sup> MoVal 2040 has been established to diversify the local economy, provide vibrant gathering places, promote livable neighborhoods, and create a strong sense of community identity. Through

<sup>9</sup> [Microsoft Word - Energy Efficiency and Climate Action Strategy, No.27.doc \(moreno-valley.ca.us\)](#)

<sup>10</sup> [Moreno Valley: GREEN MoVal](#)

<sup>11</sup> [MV CDD: 2040 Approved General Plan](#)

environmental stewardship and community engagement, with City works to maintain the provisions of services, future visions and sustainability of the communities.

- ◆ **Moreno Valley Climate Action Plan** - adopted on June 15, 2021<sup>12</sup>, the Climate Action Plan was developed concurrently with MoVal 2040 and represents the City's commitment to reducing greenhouse gas emissions and demonstrate how the City will comply with state reduction standards.

## 1.2 Airport-Specific Information

The MIPA General Plan (last update on March 7, 2023)<sup>13</sup>, Development Code (2019)<sup>14</sup>, and Airport Rules and Regulations (2017)<sup>15</sup> documents each provide guidance regarding decision-making at the Airport that are based in sustainability and resiliency principles.

The MIPA General Plan "defines reuse and development opportunities of the area, while preserving the environmental quality" and contains goals, policies, and programs to serve as the constitutional framework for decision-making concerning development. The MIPA General Plan has a number of elements, two of which relate directly to sustainability and resiliency goals. Resource Management provides for the conservation, development, and use of natural, historical, and cultural resources, and Safety/Risk Management identifies and establishes resilience measures to protect the area of a variety of hazards. The other elements (Land Use, Transportation, Housing, and Noise/Air Quality) also have goals and policies that are based in sustainable and resilient tenets such as:

- ◆ Requiring major employers/tenants to prepare transportation management plans to promote use of alternative modes of transportation
- ◆ Encourage use of alternative fuel vehicles to reduce emissions
- ◆ Support the use of energy efficient equipment and design

The MIPA Development Code are the standards, guidelines, and procedures established to implement the goals, objectives, policies, and programs of the General Plan. It provides design standards meant to ensure natural features are emphasized, safe and efficient transportation systems are established, landscaping conserves water and enhances public spaces, etc.

The Airport's Rules and Regulations document provides guidance and procedures for airfield operations and activities at the Airport. It contains emergency response procedures for various

<sup>12</sup> [MV-CAP.pdf \(moreno-valley.ca.us\)](https://marchjpa.com/wp-content/uploads/2023/03/General-Plan_03-07-2023.pdf)

<sup>13</sup> [https://marchjpa.com/wp-content/uploads/2023/03/General-Plan\\_03-07-2023.pdf](https://marchjpa.com/wp-content/uploads/2023/03/General-Plan_03-07-2023.pdf)

<sup>14</sup> [https://marchjpa.com/wp-content/uploads/2023/01/Development\\_Code\\_2023.pdf](https://marchjpa.com/wp-content/uploads/2023/01/Development_Code_2023.pdf)

<sup>15</sup> [https://marchjpa.com/wp-content/uploads/2022/06/06282022\\_Airport\\_Rules\\_and\\_Regulations.pdf](https://marchjpa.com/wp-content/uploads/2022/06/06282022_Airport_Rules_and_Regulations.pdf)

shocks and stressors, noise management plan, storm water pollution prevention and best management practices guidelines, and March ARB specific instructions.

## 2 Sustainability Focus Areas

To inform the Airport’s goals, focus areas are balanced across the elements of airport sustainability in order to provide a holistic approach to the planning process. Potential topics in each focus area are provided in **Table 2.1** for consideration.

**Table 2.1 - Focus Areas and Potential Sub-Topics**

Focus Area	Sub-Topics
1. Economic Viability	<ul style="list-style-type: none"><li>● Financial health</li><li>● Workforce development</li><li>● Innovative, sustainable growth</li><li>● Regional economic impact</li></ul>
2. Operational Efficiency & Resilience	<ul style="list-style-type: none"><li>● Business continuity / Continuity of operations</li><li>● Employee retention</li><li>● Critical asset management (including aging infrastructure/facilities)</li><li>● Emergency response planning</li><li>● Energy resilience</li><li>● Safety and security</li><li>● SMART technology</li></ul>
3. Natural Resource Conservation	<ul style="list-style-type: none"><li>● Energy efficiency</li><li>● Greenhouse gas emissions / carbon management</li><li>● Renewable energy and fuels</li><li>● Climate change adaptation/mitigation</li><li>● Stormwater management</li><li>● Wildlife hazard management</li><li>● Materials management</li><li>● Sustainable design and construction</li></ul>
4. Social Responsibility	<ul style="list-style-type: none"><li>● Accessibility</li><li>● Public health and safety</li><li>● Workforce diversity, equity, and inclusion (DEI)</li><li>● Supplier diversity</li><li>● Small and local business support</li><li>● Community engagement</li><li>● Employee engagement</li></ul>

## 3 Preliminary Initiatives

Beyond collaborating with or incorporating the initiatives of the Cities and County noted in Section 2.1.1, the following is a summary of preliminary initiatives or recommendations for consideration informed by industry best practices.

### 3.1 Economic Viability

Goals around economic viability look to minimize operational costs, focus on its local economy, and generate sustainable revenue. Example initiatives for consideration include:

- ◆ Monitor and adjust rates and charges to remain competitive with similar market airports.
- ◆ Stay ahead and informed of funding opportunities.
- ◆ Develop a land use and economic development plan that ensures the highest and best use of aviation and non-aviation parcels and supports sustainable growth.
- ◆ Develop a marketing and outreach strategy to attract diverse tenants, including commercial service providers, avionics and upholstery shops, agricultural uses and technologies, and companies geared toward Electric Vertical Take-Off and Landing Aircraft (eVTOL), especially those that are local, small businesses. Changes in policies, infrastructure, and available incentives may also help to bring new tenants and innovation to the airport.

### 3.2 Operational Efficiency and Resilience

Operational efficiency seeks to maximize efficiency and longevity while minimizing interruptions, downtime, and associated delays. Potential recommendations include:

- ◆ Conduct an operational audit to determine specific improvement measures for optimizing airport operations.
- ◆ Conduct a climate risk and vulnerability assessment for critical assets.
- ◆ Implement initiatives and/or recommendations from the microgrid feasibility study currently being conducted for the entire MJPA.
- ◆ Implement an airport-wide transition to energy efficient lighting fixtures. Install LEDs on any new or renovated facilities.
- ◆ Emphasize Airport safety and security with enhanced operational procedures, better communication among staff, investment in updated signage, and clearer parking rules for visitors, tenants, and staff.
- ◆ Work with Airport Operations and Maintenance staff to develop usage-based or calendar-based preventative maintenance plans for major infrastructure including, hangars, HVAC and electrical equipment, pavement, and vehicles.

- ◆ When infrastructure or equipment reaches the end of its useful life, consider conducting life cycle analyses for high value assets to help improve operational efficiency and understand cost-benefits.

### 3.3 Natural Resource Conservation

To ensure the conservation of national resources, the Airport can minimize impacts to air and water quality and focus on energy management. Example initiatives for consideration include:

- ◆ Explore the feasibility of on-site solar and other renewable energy opportunities within the Authority, Airport, and tenants.
- ◆ Prepare for the integration of unleaded and other sustainable aviation fuels.
- ◆ Develop an energy master/resilience plan and/or an electrical capacity load/baseline inventory.
- ◆ Install water saving restroom fixtures throughout facilities.
- ◆ Implement stormwater capture from on-airport facilities and examine the feasibility of water reuse for landscaping. Consider how water reuse initiatives can conserve valuable water resources, promote the beautification of parking lots, and enhance airport greenery.
- ◆ Enhance airport aesthetics through incorporation of natural resources and public amenities such as flower or pollinator gardens, to create a more welcoming atmosphere that encourages community interest in and interaction with the airport.
- ◆ Minimize discharges of pollutants such as PFAS and jet fuel through containment and other stormwater best practices.

### 3.4 Social Responsibility

The Airport should engage the community and the local workforce to further enrich the community. Recommendations to be considered include:

- ◆ Conduct and promote community engagement activities associated with projects or to introduce the public to the Airport and its benefits.
  - ◆ Establish engagement initiatives with local schools and co-ops to educate youth in the community on what activities go on at the Airport.
- ◆ Continue noise program transparency through public education and engagement.
- ◆ Continue to develop DEI programs to increase opportunities within the Authority/Airport and with external partners.
- ◆ Explore partnerships with local educational or research institutions to promote uptake of innovative energy and aviation technologies or practices to improve operational resilience and foster mutually beneficial relationships with community stakeholders.

- ◆ Build sustainability initiatives, such as food composting and reusable water bottles, into public events. Promote the airport's responsible resource practices and other initiatives by requiring event hosts to highlight these activities during community events.

# 4 Sustainable Decision-Making Framework

## 4.1 Short-term Initiatives

A recommended list of short-term initiatives was developed based on ease of implementation or assumed interest in implementation (see **Table 4.1**). This list will be confirmed and prioritized based on discussions with MJPA.

**Table 4.1 - Short-term Initiatives and Actions**

Short-term Initiative	Action
Monitor and adjust rates and charges to remain competitive with similar market airports.	Identify a champion to establish and maintain a database of tenants, rates, and charges with identifying information in order to recommend adjustments as needed.
Stay ahead and informed of funding opportunities.	Identify a champion to further research and maintain the list of potential funding opportunities in Section 2.5 in order to capitalize on available monies for improvements.
Implement initiatives and/or recommendations from the microgrid feasibility study currently being conducted for the entire facility.	Evaluate findings of current microgrid feasibility study and identify short-term initiatives to progress.
Prepare for the integration of unleaded and other sustainable aviation fuels.	Work with tenants and fuel providers to determine level of interest and establish a supply chain.
Implement an airport-wide transition to energy efficient lighting fixtures. Install LEDs on any new or renovated facilities.	Ensure any upcoming projects include replacing light fixtures with LED fixtures.
Install water saving restroom fixtures throughout facilities.	Ensure any upcoming projects that include the replacement of water fixtures incorporate water-saving fixtures.
Continue noise program transparency through public education and engagement.	

Source: C&S Engineers, Inc. 2023



## 4.2 Integration into CIP Projects

The five-year Airport Capital Improvement Program (FY 2024-2028) consists of airfield improvements such as a new/rehabilitated aprons and taxiways. For future capital projects, the Airport can integrate recommendations such as maximizing stormwater capture, using green stormwater infrastructure, conserving energy and water resources, and reducing waste and carbon emissions. As lighting, signage, and other equipment are replaced and upgraded, conversion to more energy efficient fixtures or equipment is recommended. Integration of the recommended sustainability initiatives should be considered whenever economically and technically feasible.

The following approaches to enhancing sustainability should be considered during and after development of the master plan, in daily operations, and for future design and construction projects:

- ◆ Provide opportunities for stakeholder engagement and outreach related to integrating sustainability best practices.
- ◆ Train and educate staff and tenants on recommended sustainability initiatives and general sustainability best practices in operations and capital development.
- ◆ Apply sustainable design and construction principles using existing sustainability rating systems such as LEED and Envision.
  - ◆ LEED<sup>16</sup> (Leadership in Energy and Environmental Design) is a green building certification program lead by the U.S. Green Building Council.
  - ◆ Envision<sup>17</sup> is a certification program for providing a consistent, consensus-based assessment of sustainability, resiliency, and equity in civil infrastructure projects led by the Institute for Sustainable Infrastructure.
- ◆ Consider following city and county sustainability goals and targets and participating in their initiatives.

## 5 Potential Funding Sources

Potential funding sources for MIPA to consider to facilitate implementation of the recommended initiatives outlined above include federal and state sources such as those described below.

### **Bipartisan Infrastructure Investment and Jobs Act**

With the current presidential administration's commitments to sustainability, climate adaptation, and resilience, it is an ideal time to understand MIPA's opportunities for energy and emissions

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<sup>16</sup> <https://www.usgbc.org/about/mission-vision>

<sup>17</sup> <https://sustainableinfrastructure.org/envision/overview-of-envision/>

reductions. Federal government support for climate action planning has been laid out in the Department of Transportation's (DOT) Climate Action Plan for Resilience<sup>18</sup> and the Federal Aviation Administration's (FAA) Aviation Climate Action Plan.<sup>19</sup>

The Bipartisan Infrastructure Investment and Jobs Act represents one of the most significant funding opportunities related to climate change and sustainability initiatives. Notices of funding opportunities are being released in relation to various programs tied to energy efficiency, emissions reductions, electric vehicle infrastructure, airport and power infrastructure, and other sustainability and resilience infrastructure improvements.

### **Inflation Reduction Act of 2022**

This legislation includes over \$300 billion for programs, funding, loans, and incentives related to reducing greenhouse gas emissions and investing in clean energy technologies, including tax credits related to renewable energy production, energy efficiency, and clean vehicles.

### **Airport Infrastructure Resilience Act – Future 2023 Funding**

This bill would establish an airport infrastructure resilience pilot program to fund planning, design, and construction projects that enhance resilience.

### **FAA Environmental Programs**

In addition to AIP funding, the FAA has set-aside funding available for environmental, noise, and sustainability initiatives with the same cost sharing percentages as the AIP program. The following programs are noted as relevant funding programs as part of the Airports Climate Challenge<sup>20</sup>:

- ◆ [Airport Zero Emissions Vehicle \(ZEV\) Program](#): Available to any public-use airport in the National Plan of Integrated Airport Systems (NPIAS) eligible to receive Airport Improvement Program (AIP) grants; funds zero emissions technologies, including vehicles and associated charging or fueling infrastructure.
  - ◆ Pre-applications are due November 1 each year
  - ◆ ZEV-funded equipment must be maintained by the airport sponsor for the useful life of the equipment
  - ◆ For more information, see [ZEV and Infrastructure Pilot Program Brochure](#) (Updated 2022).
- ◆ Energy Efficiency Program: Funding to support energy assessments and projects that increase the energy efficiency of airport power sources.

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<sup>18</sup> [https://www.transportation.gov/sites/dot.gov/files/2021-10/Climate\\_Action\\_Plan.pdf](https://www.transportation.gov/sites/dot.gov/files/2021-10/Climate_Action_Plan.pdf)

<sup>19</sup> [https://www.faa.gov/sites/faa.gov/files/2021-11/Aviation\\_Climate\\_Action\\_Plan.pdf](https://www.faa.gov/sites/faa.gov/files/2021-11/Aviation_Climate_Action_Plan.pdf)

<sup>20</sup> <https://www.faa.gov/sites/faa.gov/files/Table-of-Relevant-FAA-Funding-Programs.pdf>

- ◆ Sustainability Program: Funding to support comprehensive sustainability planning efforts at airports, including sustainability master plans and sustainable management plans.
- ◆ Energy, Supply, Redundancy, and Microgrids Program: Provides grants to improve reliability and efficiency of the power supply, prevent power disruptions, acquire and install electrical generators, separate the main power supply, and construct or modify facilities to install a microgrid.

### State Funding Programs

The following are a few samples of various California funding opportunities that can be found and researched at <https://www.grants.ca.gov/>.

- ◆ The Integrated Climate Adaptation and Resiliency Program (ICARP)<sup>21</sup> includes three programs authorized in the 2021 State Climate Budget to fund local, regional, and tribal climate adaptation and resilience efforts across the state.
- ◆ The ICARP Adaptation Planning Grant Program will invest \$25 million over multiple funding rounds for local, regional, and tribal governments to support climate adaptation and resilience planning activities.
- ◆ The ICARP Regional Resilience Planning and Implementation Grant Program will invest \$250 million over multiple funding rounds to scale regional climate resilience solutions.
- ◆ The ICARP Extreme Heat and Community Resilience Grant Program will support local and regional heat adaptation by investing \$100 million in extreme heat and urban heat island mitigation activities.
- ◆ The California Natural Resources Agency administers various programs:
  - ◆ The Environmental Enhancement and Mitigation Program<sup>22</sup> assists with the costs of mitigation for new or modified public transportation facilities.
  - ◆ The Urban Greening Program<sup>23</sup> supports projects that reduce greenhouse gas emissions, provide multiple benefits, and create more sustainable communities using natural and green infrastructure approaches.
- ◆ California Energy Commission<sup>24</sup> programs include:
  - ◆ The Clean Transportation Program (CTP) invests in the adoptions of cleaner transportation powered by alternative and renewable fuels.
  - ◆ The California Electric Vehicle Infrastructure Project (CALeVIP) provides rebates for electric vehicle charging infrastructure.
- ◆ California Air Resources Board (CARB) programs include:
  - ◆ Zero-Emission Airport Ground Support Equipment regulations (under development)
  - ◆ Zero-Emission Airport Shuttle regulations require commercial service airports to transition to 100% ZEVs by 2035

<sup>21</sup> <https://opr.ca.gov/climate/icarp/grants/>

<sup>22</sup> <https://resources.ca.gov/grants/environmental-enhancement-and-mitigation-eem>

<sup>23</sup> <https://resources.ca.gov/grants/urban-greening>

<sup>24</sup> [https://resources.ca.gov/-/media/CNRA-Website/Files/grants/CNRA\\_CurrentFundingOpportunities.pdf](https://resources.ca.gov/-/media/CNRA-Website/Files/grants/CNRA_CurrentFundingOpportunities.pdf)

- ◆ Clean Off-Road Equipment Voucher Incentive Project (CORE)
- ◆ Hybrid and Zero-Emission Truck and Bus Voucher Incentive Project (HVIP)
- ◆ Volkswagen Environmental Mitigation Trust Funding for Zero-Emission Freight and Marine Projects
  - ◆ Accepting applications for equipment, including Airport Ground Support Equipment at <https://www.californiavwtrust.org/zero-freight-marine/>