



# Cost Savings Through Airport Modernization

Partnerships inject the right expertise into facilities improvements designed to control costs and improve reliability

## Upgrades Stalled on the Runway

Your airport is excellent at getting people where they need to go. But how quickly is it modernizing utility systems and infrastructure to reduce energy and water usage – and costs? Timely systems and infrastructure modernization is key, but budget and staffing constraints often push maintenance and upgrades to the back burner. As a result, many airports are facing years-long backlogs.

OPTERRA Energy Services can help you clear those backlogs and enable ongoing operations that keep energy systems at peak performance and cost-efficiency.

With OPTERRA's comprehensive energy performance solutions, you can:

- Cut operational expenditures by reducing energy usage
- Accurately monitor aging utility systems and take timely action to ensure reliability and resilience
- Pragmatically integrate energy infrastructure modernization into your airport renovation or expansion initiatives
- Optimize utility operations by leveraging external engineering and project management expertise

## Flight Path to Modernization

An energy performance partnership with OPTERRA helps airports leverage the latest proven technologies and processes from the vendors of their choice, streamlining and accelerating their route to more efficient operations and energy cost savings.



### Infrastructure Design

OPTERRA will perform a **comprehensive needs assessment** and, in collaboration with your staff, prioritize projects based on their impact on efficiency, reliability, and sustainability.



### Construction Oversight

OPTERRA will leverage five decades of **expertise in managing all aspects** of the build process. We will coordinate with trusted, local subcontractors, while minimizing disruption to airport operations.



### Financing & Ongoing O&M

OPTERRA can assist with securing incentives and financing; options include **energy performance contracting** and bundling so that savings from the upgrades can help offset the capital costs. We can also provide long-term operations and maintenance (O&M) services and guarantee the performance of our work.

## Partnering with OPTERRA

Our end-to-end, turnkey service can cover expansive multi-phase initiatives, tightly focused individual projects, or anything in between. A partnership with OPTERRA streamlines engineering design and installation of new or upgraded equipment that may include:



### Facilities modernization

- Energy & water conservation measures
- Sustainable microgrids
- Direct load control
- Advanced metering
- Lighting upgrades
- HVAC modernization
- eMobility infrastructure



### Foundational systems

- Onsite power generation, storage & distribution
- Combined heat & power (CHP) systems
- Steam/hot water plants
- Chilled water plants
- Potable water, sewer & wastewater infrastructure
- District heating & cooling systems



Solar photovoltaic array at the Monterey Regional Airport

## Decades of Expertise

For more than 50 years, OPTERRA has served hundreds of airports, municipalities, schools, and healthcare facilities throughout the United States. Our comprehensive approach to utility systems management is market-proven, and each partnership is designed to meet the specific needs of our customers.



To keep energy costs in check, Monterey Regional Airport partnered with OPTERRA to design and build a turnkey ground-mount solar photovoltaic (PV) array. The project is generating 1.5 million kWh of clean energy annually, resulting in an estimated \$5.5 million in net savings over the next 25 years.



Located in a hot desert valley in Southern California, Palm Springs needs to carefully control its water use and constrain the city's cooling and other energy costs. For Palm Springs International Airport, OPTERRA upgraded the central plant that provides chilled water, hot water, and supplemental power generation. It also installed energy efficient lighting and introduced irrigation and HVAC control systems.



Portland International Airport wanted to accelerate onsite charging of rental electric vehicles (EVs). OPTERRA led a needs audit and design process for the airport, then managed implementation of innovative, overhead-mounted fast chargers – a first for an airport. The solution dramatically accelerated charging, increasing rental agencies' revenue and staff productivity.

Contact OPTERRA to learn how a partnership could benefit your airport:  
[opterraenergy.com/contact](https://opterraenergy.com/contact)