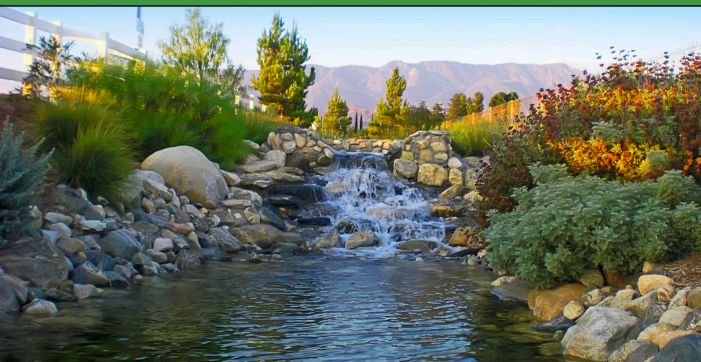


## Sustainability Project Examples

PARSONS



### GROUNDWATER RECHARGE PROJECT BEAUMONT, CA

Exceeding expectations, the initial recharge basins percolate 2.7 billion gallons of water per year. The project includes routing stormwater before discharging through a dry-bed creek, lined with drought-tolerant vegetation, into the recharge basins.

Parsons projects account for more than 20 billion gallons of reused, recharged, or recycled water every year—enough for a population of 1.3 million.



### T-REX TRANSPORTATION EXPANSION PROJECT DENVER, CO

Southeast Corridor Constructors (SECC), a joint venture, was selected to design and build the Southeast Corridor Transportation Expansion (T-REX) Project, the largest transportation contract in Colorado history.

Parsons has contributed to the development of major light rail and subway transit systems across the U.S. Nine of these projects have helped more than 1 million riders per day avoid fuel consumption and greenhouse gas emissions from the use of automobiles and diesel buses.

- **Arabian Canal**—Sustainable infrastructure, including regional hot water and steam networks, district cooling, distributed and central renewable energy, recycled water, groundwater recharge, and stormwater and irrigation BMPs.
- **NASA/Goddard Space Flight Center**—An award-winning project for its sustainable 1,200-acre, 33-building site layout and design. Components include a 20-year facilities master plan, critical backup power for the earth-observing satellites, digital TV studio, and a space laser assembly clean room.
- **GSA/NOAA Environmental Satellite Ops and Data Processing Facility**—A secured computer center with 16 antennae controlling satellites. This facility obtained LEED™ Gold certification with Parsons as the commissioning agent.
- **Guam Military Buildup Roadway Improvement**—In lieu of complete reconstruction, this project strengthened 60 centerline miles of pavement by full depth reclamation and overlay, saving an estimated \$600 million in costs and more than 17 million yards<sup>3</sup> of natural resources.
- **Inland Empire Utilities Agency**—A renewable energy tri-generation project using methane gas from both manure facilities and wastewater treatment plant digesters with food waste. This project included thermal storage, an organic rankine bottoming cycle, absorption chillers, evaporative cooling fogging system, solar tubes, stormwater infiltration, and permeable pavement.
- **USPS Program**—This project includes energy efficiency audits, implementation of advanced technology to reduce energy consumption and greenhouse gases, and energy efficiency reviews at U.S. Postal Service (USPS) facilities throughout the country.
- **Wayne L. Morse U.S. Federal Courthouse**—The first federal courthouse to receive a LEED™ Gold Certification, this 265,000-ft<sup>2</sup> facility has electrical and MEP systems that allowed for cost savings through improved coordination and received a General Services Administration Design Excellence Award.
- **Intermediate District 287's South Education Center**—Because of its unique electrical and mechanical systems, this project is 68% more energy efficient than a comparably sized building built to code. The use of a geothermal well field in lieu of boilers and rain gardens in lieu of retention ponds promote an energy- and water-efficient building.

## Sustainability



CalPERS Building  
Sacramento, California – LEED™ Gold



PARSONS

100 West Walnut Street  
Pasadena, CA 91124  
Phone: (626) 440-2000

[www.parsons.com](http://www.parsons.com)

Achieving Sustainable  
Objectives Through Innovation

## Our Commitment

Parsons is committed to providing sustainable solutions to our clients. Sustainability is a core value and endorsed by those at the highest levels, Parsons Board of Directors and CEO.



"Sustainability is critical to the global environment and economy. Parsons professionals are helping create a sustainable future through development of designs, construction methods and materials, and enhanced facilities and systems operations that meet our clients' expectations now and in the future. Strategically planning for limited resources, whether they are fossil fuels, rebar, potable water, or other limited resources, is incorporated into our projects and programs and a core value of Parsons."

—Chuck Harrington, CEO



### CAPITOL AREA EAST END COMPLEX SACRAMENTO, CA

This \$392M, 1.5-million-ft<sup>2</sup> complex has reduced energy usage beyond code requirements by 30%. Roof-mounted solar photovoltaic panels generate 195 kW of energy (enough to power 30 homes).

### PENTAGON RENOVATION AND CONSTRUCTION PROJECTS WASHINGTON, DC

This joint venture project team was selected to perform design, project management, and construction management services for buildings that encompass over 4 million ft<sup>2</sup>—including project management for multiple LEED™ certification projects. Five buildings attained LEED™ certification; one attained LEED™ Silver certification. Fifty percent of the Athletic Center exterior is reused limestone; rubber flooring is made of recycled tires, cork and bamboo flooring and recycled polyester for seating and wall panels.



## Our Capabilities

Our sustainability approach involves a collaborative, integrated, and systematic application of management tools and strategies to meet our clients' project and program requirements.

### SERVICES

- Alternative mass transit systems
- Commissioning
- Communications-based train control technology
- Ecological restoration and preservation
- Energy audits and modelling
- Greenhouse gases and carbon assessments
- Leadership in Energy and Environmental Design (LEED™) and high-performance building design/consulting/administration/construction/management
- Life cycle, payback, and cost-effective analysis and reviews
- Master planning for sustainability
- Renewable energy and energy recovery
- Site and building assessments
- Stormwater best management practices (BMPs)
- Water reuse/reclamation/desalination

Parsons has designed, planned, or constructed more than 10 million ft<sup>2</sup> of LEED™-certified buildings totaling greater than \$25 billion.



### COMPREHENSIVE EVERGLADES RESTORATION PLAN WEST PALM BEACH, FL

One of the largest environmental restoration programs to replenish a large portion of the Florida Everglades, this project is intended to improve water releases to the environment, equalize flow to the coastal estuaries, reduce back-pumping events, maintain the regional water supply, and create recreational opportunities for the community.

Parsons projects are assisting in the restoration of more than 200,000 acres of natural habitat, roughly the size of Dallas, TX.

## Our Staff

Parsons' extensive portfolio demonstrates that our professionals, engineers, and architects have significant expertise in sustainability. The global markets we serve enable us to apply and integrate sustainable solutions in our daily practice. We promote, we influence, we implement, and we are committed to continue to be a driving source of innovation in the field. A rapidly increasing number of us are now LEED™ accredited, and our accumulated experience enables us to integrate sustainable solutions seamlessly into deliverables for clients.



Internally, Parsons staff has implemented sustainable principles such as materials selection, energy, and water efficiency modifications in owned buildings. In addition, since 2006, Parsons has saved 15,717,000 kWh of energy and 4,774,250 lb of CO<sub>2</sub> from our densification efforts.