



San Francisco International Airport (SFO) Terminal 2 Renovation Design Fact Sheet

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Project Name: San Francisco International Airport, Terminal 2 Renovation
Design Start: April 2008
Opening: April 2011
Construction cost: \$383 million
Size: 640,000 square feet
Passengers per year: Capacity for 5.5 million enplaned passengers; 3.2 million enplaned passengers are expected in the first full year of operation
Airlines served: Virgin America, American Airlines
Gates: 14 (Virgin America: seven; American Airlines: six; one common-use gate at launch)

Levels: Two
Security Lanes: Eight passenger lanes, two employee and tenant lanes
Ticket Counters: Up to 26 ticketing positions in each ticketing lobby (two lobbies total)
E-Ticket Kiosks: Up to 12 per side (two sides)
Curbside Check-in Counters: Six positions
Retail and Concessions: 30,793 square feet
Baggage Claim Carousels: Four

Design Team: Design/Build Contractor: Turner
 Architect: Gensler
 Associate Architect: Michael Willis Architects
 Associate Architect: Hamilton-Aitken Architects
 Brand Design: Gensler
Note: full consultant and construction team list available upon request

Description:
 Gensler’s design for San Francisco International Airport’s renovated Terminal 2 (SFO T2) sets a new benchmark for contemporary air travel in a terminal highlighting the Bay Area’s distinct culture through its design, art and epicurean delights. Registered with the United States Green Building Council, the terminal aims to become the first LEED Gold certified terminal in the United States. The 640,000-square-foot terminal features progressive sustainability measures that strive to inspire people to live more sustainably. T2 will feature 14 gates serving the San Francisco-based Virgin America and American Airlines, and was built in a design-build partnership between Turner Construction and Gensler for San Francisco International Airport.

Elevating the Travel Experience

- **With an emphasis on service, hospitality and comfort,** T2’s design offers travelers many options for how they spend their time in the airport.

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- **SFO was the first U.S. airport that is an accredited museum, and T2's design highlights the unique collection.** While moving through the terminal, travelers can enjoy spaces designed to highlight T2's permanent collection and traveling installations (see detail on the art included in the permanent collection below).
- **San Francisco's cuisine is globally revered, and the Bay Area's food culture extends into the airport** in a unique offering of locally-sourced, wholesome foods including a restaurant from renowned local chef Cat Cora. The terminal's design mirrors the diversity of food offerings, with a multitude of places and seating options to enjoy either a snack on the go or a full meal.

De-Stressing Travel in a Pat-Down World

- **Recompose** A unique area just past security offers travelers a place to re-dress and gather their belongings after passing through security. Setting the tone for the T2 experience, this area features abundant natural light that interacts with a hanging installation by Janet Echelman, an internationally renowned artist. As passengers regroup, they can quickly check flight status on adjacent displays, and assess the food and shopping offerings in the concourse.
- **Hydration Stations** Security procedures prohibit taking bottled water through screening, but savvy travelers can refill empty water bottles at Hydration Stations that feature prominently at the concourse's terminus.
- **A "club room" feel** to the departure lounge dining area and departure gates includes a variety of seating options and children's play areas. Whether they are dining, shopping or enjoying an exhibit, passengers are able to keep an eye on their gates from these areas.
- **Sit, lounge, or work:** Gates include a variety of seating options including lounge furniture, work-oriented seating with power outlets, dining seating, and seating clusters that accommodate small and large groups. Laptop plug-in stations, elevated work counters and free WiFi throughout the terminal make it easy for everyone to connect and charge electronics on the go.

Sustainable Highlights

Innovative sustainable design & operations programs at T2 will:

- **Reduce energy costs:** The terminal is designed to save 15% more than the energy cost of a terminal designed to meet California's stringent building code, resulting in a \$170,000 annual savings in operations costs. An innovative displacement ventilation system will deliver superior air quality while using 20% less power than conventional systems.
- **Reduce water use:** T2's dual plumbing system saves water. Reclaimed water from the Airport's Mel Leong Treatment Plant supplies toilets and urinals. Plumbing fixtures are 40% more efficient than typical fixtures.
- **Re-use building materials:** By reusing a substantial portion of the infrastructure of the existing building in the renovated T2, SFO reduced the global warming impact of the new terminal by approximately 12,300 tons of CO₂.
- **Recycle:** An aggressive recycling policy and composting for food waste significantly reduces the airport's waste generation and carbon footprint.
- **Teach:** creative signage engages travelers and educates T2's more than six million visitors on the terminal's sustainable features.



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- **Eat local:** the terminal features local, organic food vendors, offering wholesome food grown locally and prepared in a healthful manner.
- **Remove complexity:** expansive, naturally-illuminated spaces greet passengers, intuitively guiding them at key decision-making points, such as post-security, pre-baggage claim and the departure lounge. The natural daylight makes the terminal easier for travelers to navigate, creates a more healthy environment in which to travel, and helps save electricity used for lighting during the day.
- **Complete a Multi-Modal Hub:** the renovation connects Terminal Two to the Bay Area Regional Transportation System (BART), so that employees and travelers alike can easily go from airport to city on mass transit.

Art + Design: SFO Is the Only U.S. Airport That Is an Accredited Museum

- **Gensler collaborated with the San Francisco Arts Commission, Turner, SFO and the SFO Museum to incorporate art into T2's design.** Three signature artworks were commissioned for the Terminal's glass façade, entry lobby mezzanine area and the post-security Recompose area. In addition, two newly-commissioned interactive artworks are incorporated into the children's play areas.
- **Outside Façade: Air Over Under** – The terminal's outside façade features Norie Sato's "Air Over Under," whose imagery depicts the dual experience of being under or over clouds when flying in a plane.
- **Ticketing: Topograph** – Kendall Buster's Topograph suggests a topography map, and creates an illusion that the forms might be fragments of a larger mysterious mass, like clouds—a recurrent theme in T2's design.
- **Arrivals Lounge: Marc Adams Tapestries** – In storage for over 20 years, three tapestries by Marc Adams depicting garden imagery from local San Francisco and Bay Area sites warm the space where travelers reconnect with friends and family upon return to San Francisco.
- **Recompose: Every Beating Second** – Janet Echelman's hanging sculpture is the signature element of the Recompose area. The artwork evokes the contours and colors of cloud formations over the Bay Area. Aesthetically, the sculpture draws its color from the Summer of Love, and references the Bay Area's technological innovation and interconnectivity.

Links for Additional Information

- [Press Release](#) and links to images
- [SFO T2 Website](#) with detailed information on the airport's art collection and programs
- [Blog: How an Airport Can Make the World a Greener Place](#) with links to an interactive graphic
- [Project Story](#) on Gensler website

About SFO

SFO (www.flysfo.com) provides nonstop service to more than 65 US cities on 21 domestic airlines and to 32 international points on 27 international carriers. SFO offers twice as many non-stop flights to the New York area than all other Bay Area airports combined – making SFO the Bay Area's Airport of Choice. SFO was voted "North America's Best Airport" in 2008 by passengers for its outstanding customer service and amenities.



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About Turner

Turner is the leading general builder in the U.S., ranking first or second in the major segments of the building construction field. During 2009, Turner completed \$8.2 billion of construction. Turner is the only builder offering clients a nationwide network of offices across the U.S. Founded in 1902, the firm is a subsidiary of HOCHTIEF, a publicly traded company and one of the world's leading international construction service providers. For more information, visit Turner's [website](#).

About Gensler

Gensler is a global design, planning, and strategic consulting firm networked across 35 locations on five continents. Consistently ranked by U.S. and international industry surveys as the leading architecture and interior design firm, Gensler leverages its deep resources and diverse expertise to develop design solutions for industries across the globe. For its longstanding commitment to the advancement of sustainable design, Gensler received the Leadership Award from the U.S. Green Building Council in 2005. For more information, visit our [website](#) (www.gensler.com) or [blog](#) (www.gensleron.com), [follow us on Twitter](#) (www.twitter.com/GenslerOnCities), or [like us on Facebook](#) (www.facebook.com/GenslerDesign).

San Francisco International Airport (SFO) Terminal 2 Renovation Sustainable Design Fact Sheet

Project Name: San Francisco International Airport, Terminal 2 Renovation
Opening: April 2011

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Description:

The first LEED Gold-registered airport terminal in the United States, San Francisco International Airport's renovated Terminal 2 (SFO T2) will support the airport's goal of zero waste and offer a sustainable education program. The renovation is slated for completion in April 2011. The 640,000-square-foot terminal will feature progressive sustainability measures that aim to inspire people to live more sustainably. The terminal will feature 14 gates serving Virgin America and American Airlines, and was built in a design-build partnership between Turner Construction and Gensler for San Francisco International Airport.

Gensler's design for SFO T2 will create an authentic Bay Area experience within the terminal's walls. The design will support the airport's goal of zero waste, offer a sustainable education program, and encourage travelers and employees to participate in its sustainable programs.

SFO is the only U.S. airport that's an accredited museum, and the design of T2 highlights unique art installations by world-renowned artists. In another nod to Bay Area culture, the terminal will offer locally sourced food and wine at its many restaurants and shops. By emphasizing sustainability, hospitality and Bay Area culture, the terminal will elevate the traveler experience and make it fun for travelers to spend time at the airport.

Project Information:

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| Size: | 640,000 square feet |
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| Gates: | 14 (Virgin America: seven gates; American Airlines: six gates; one common-use gate at launch) |
| Levels: | Two |
| Security Lanes: | Eight passenger lanes, two employee and tenant lanes |
| Ticket Counters: | Up to 26 ticketing positions per ticketing lobby |
| E-Ticket Kiosks: | Up to 12 per side |
| Curbside Check-in Counters: | Six positions |
| Retail and Concessions: | 30,794 square feet |
| Baggage Claim Carousels: | Four |

Greening the Airport

Innovative sustainable design & operations programs at T2 will:

- **Reduce energy costs:** The terminal is designed to save 15% more than the energy cost of a terminal designed to meet California's stringent building code. An innovative displacement ventilation system will deliver superior air quality while using 20% less power than conventional systems.
- **Reduce water use:** A dual plumbing system is incorporated in T2 to save water. Plumbing for toilets and urinals will be supplied with reclaimed water from the Airport's Mel Leong Treatment Plant. Plumbing fixtures selected are 40% more efficient than typical fixtures.
- **Re-use building materials:** By reusing a substantial portion of the infrastructure of the existing building in the renovated T2, SFO will generate cost savings and reduce the global warming impact of the new terminal by approximately 12,300 tons of CO₂.
- **Recycle:** An aggressive recycling policy and composting for food waste will help to significantly reduce the airport's waste generation and carbon footprint.

A Sustainable Travel Experience

- **'Hydration Stations'** will enable flyers to fill reusable water bottles once past security, reducing the significant volume of waste created by single-use water bottles. While native San Francisco travelers will soon adapt to this amenity, travelers from other cities will see these stations, triggering their awareness of the possibility of traveling with reusable water bottles.
- **Designed to be a teaching tool,** creative signage engages travelers and educates T2's more than six million visitors on the terminal's sustainable features.
- **Local food:** the terminal will feature local, organic food vendors, offering wholesome food grown locally and prepared in a healthful manner.
- **Removing complexity:** expansive, naturally-illuminated spaces greet passengers, intuitively guiding them at key decision-making points, such as post-security, pre-baggage claim and the departure lounge. The natural daylight makes the terminal easier for travelers to navigate, creates a more healthy environment in which to travel, and helps save electricity used for lighting during the day.

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A Sustainable Work Experience

- **Completing a Multi-Modal Hub:** the renovation will connect Terminal Two to the Bay Area Regional Transportation System (BART), so that employees and travelers alike can easily go from airport to city on mass transit.
- **Abundant natural light:** Skylights and clerestories bring daylight into the Ticketing Lobbies and retail areas, providing a healthier working environment while significantly reducing electricity requirements during daylight hours.
- **Educating the workforce:** In addition to the multiple education and signage programs throughout the terminal, airport employees will have access to composting guides at all waste stations that explain the airport's compost program, and how they can contribute to the airport's zero waste goal.
- **Virgin America** has made sustainable practices part of its business model since its 2007 launch – right down to the use of organic hand-soap in its lavatories and a focus on healthy and organic menus. The airline has employed progressive practices from day one to reduce its carbon footprint even as it grows – and today the airline's fleet is up to 25% more fuel and carbon efficient than the average flying domestically. Virgin America is additionally investing in its T2 spaces to achieve the highest possible **LEED® Platinum**-certified status. Below are some of the additional investments Virgin America is taking to achieve LEED® Platinum-certification:
 - Use of “Greenguard” certified woods and USGS-approved furniture sourcing.
 - Lighting is 35% more efficient than California Energy Codes, with night/day motion sensors.
 - Energy efficient heating, cooling and ventilation with occupancy sensors in Virgin America rooms.
 - All computers and office equipment are 100% EnergyStar certified.

Elevating the Travel Experience:

- **With an emphasis on service, hospitality and comfort**, design features such as a post-security area in which travelers can recompose themselves after security screening, a lounge in which people can await and greet arriving travelers, and hotel-inspired seating areas will afford travelers many options for how they spend their time in the airport.
- **Recompose** A unique area just past security will offer travelers a place to re-dress and recompose themselves after passing through security. Setting the tone for the T2 experience, this area features comfortable seating, abundant natural light, and a hanging installation entitled “Every Beating Second” by Janet Echelman, an internationally renowned artist.
- **A "club room" feel** to the departure lounge dining area and departure gates will include a variety of seating options and children's play areas. Whether they are dining, shopping or enjoying an exhibit, passengers will be able to keep an eye on their gates from these areas.
- **Sit, lounge, or work:** Gates include a variety of seating options including lounge furniture, work-oriented seating with power outlets, dining seating, and seating clusters that can accommodate small and large groups.
- **Laptop plug-in stations, elevated work counters and free wireless** throughout the terminal accommodate business travelers.

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- **Animating the baggage claim area**, illuminated soffits above the bag belts are inspired by San Francisco's distinctive cloud patterns. Designers re-imagined the baggage claim area as a hybrid piece of "kinetic art," exposing how the device delivers bags to passengers as it also efficiently distributes conditioned air.

Links for Additional Information

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- [SFO T2 Website](#)
- [Project Story](#) on Gensler website
- [SFO T2 Design on Facebook](#)
- [United States Green Building Council](#) website with information on the LEED rating system

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