



Energy Center
San Francisco

thermal times

information in the pipeline

Green Moscone Center Achieves LEED® Gold

Sustainable features save money, appeal to clients

The Moscone Center's sustainability efforts turned to gold this past fall as it became the first convention center on the West Coast to earn LEED® (Leadership in Energy and Environmental Design) for Existing Buildings Gold certification from the U.S. Green Building Council.

The prestigious honor was conferred in recognition of Moscone's best practices in energy efficiency, site development, water savings, materials selection and indoor environmental quality. An NRG Energy Center San Francisco customer, Moscone Center is now the city's largest municipally owned green building.

The Center recently completed a two-year, \$56 million renovation of Moscone North and South exhibit halls, which helped secure its LEED Gold status (and come very close to Platinum). The Moscone Center's green features now include

- ❖ Low-flow plumbing fixtures;
- ❖ Carpet, ceiling and restroom tile made from recycled content materials;
- ❖ A green cleaning program; and
- ❖ Sustainable purchasing policies.

In addition, The North and South buildings are also located underground, which saves energy and allows for parks and other facilities above ground.

While Moscone Center's sustainable design and operations further enhance San Francisco's reputation as one of America's greenest cities, they also matter when it comes to marketing: Meeting planners and attendees want to reduce the environmental impact of their events. "Moscone Center offers clients a sustainability report that contains a blueprint of their energy and water consumption and waste diversion results while at our venue," says Moscone Center's Chief Engineer Steve Basic. "That started with our larger shows, but today more and more of our clients ask for it."

Moscone Center always has good news to report. Overall, the "new" Moscone is 33% more energy-efficient than the national average for comparable facilities. The center is home to a 60,000-square-foot solar array comprised of 5,400 photovoltaic modules on the rooftop of Moscone South, which



Courtesy Moscone Center.

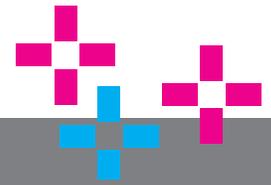
Moscone Center is conveniently located near all modes of public transportation. Nearly three-quarters of the center's employees regularly commute using alternative transportation, which helped earn LEED points.

generates more than 5% of the total building energy and reduces greenhouse gas emissions by an amount equivalent to planting 62 acres of trees annually. Electricity used at the center is primarily sourced from clean, green hydropower as well as small solar and biogas facilities.

Recent upgrades also play an important role in Moscone Center's energy-conscious operation: HVAC controls for air distribution systems in the South building; a new cooling tower and pump system in the North building; variable-speed drives to replace constant-speed drives; new lighting systems and LED signage; and intelligent wireless lighting controls technology in lobbies.

Now with newly renovated facilities and LEED Gold adding to its appeal, Moscone Center is certain to be a leading contender for meeting and convention business. NRG San Francisco is proud to be of service.

Green Moscone Center (cont'd)



Courtesy Moscone Center.

Moscone West is a standalone, aboveground structure that's kitty-corner from the underground Moscone North and South venues.

Moscone Center has been an NRG Energy Center San Francisco customer since 1993. The Center uses steam for both space heating and domestic hot water. "We've partnered with NRG San Francisco for many years now," says Steve Basic, Moscone Center's Chief Engineer. "We rely on them a lot. They've always been very prompt to respond to our questions or concerns. They really take care of us. We're pleased with the service."

Moscone Center Quick Facts

Years Opened	Moscone South, 1981; Moscone North, 1992; Moscone West, 2003.
Number Attendees	More than 900,000 registered or ticketed for an event in 2010-2011.
Meeting Space	More than 700,000 square feet of exhibit hall floor and up to 256,225 square feet in up to 106 breakout/meeting rooms.
Recent Major Shows	Semicon, Oracle, Salesforce, Greenbuild, VMWorld
Kudos	Named one of America's top ten convention centers in 2012 by Business Review USA magazine.

Efficiency action

One or two pounds and degrees matter



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As many of you may recall, in 2013 the weather started out rather cool here in San Francisco. This caught many customers off-guard, as numerous building thermostats, pressure gauges and control systems weren't set for the conditions we were experiencing.

When it comes to keeping a building warm and comfortable when the temperature falls, taking one or two more pounds of steam or increasing the thermostat by one or two degrees at just the right time can make a tremendous difference in comfort and efficiency. (Buildings set at the proper temperature don't have to work so hard to "catch up" and are more efficient.) Monitor the weather forecasts so that you can get a jump



on coming weather conditions. Also make sure you routinely check your building management system to be sure you are getting proper feedback.

Even if you've always operated your buildings at certain temps and pressures, it may be time to re-evaluate those settings and make a change. An old saying applies: Just because you've always done it that way, doesn't mean you need to continue to do so. The goal is to improve efficiency and comfort; a few minor changes can help!

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NRG San Francisco Recognizes Golf Tourney Winners

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Two San Francisco golfers walked away with special prizes at golf tournaments sponsored by NRG San Francisco last summer. In August, NRG San Francisco participated in BOMA San Francisco's Elmer Johnson Golf Classic at the Peninsula Golf & Country Club in San Mateo and gave away the grand prize—a Pebble Beach Golf Package that included lodging, rounds of golf, restaurant and spa.



In September, NRG San Francisco awarded two American Airlines tickers to the golfer who made a hole-in-one at Local 39's 4th Annual Fall Classic Golf Tournament at Eagle Vines Golf Course in Napa.

Congratulations to our winners!

A Warm Welcome to Hakkasan



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NRG Energy Center San Francisco welcomes Hakkasan San Francisco as a new steam customer. The restaurant, a 10,000-square-foot elegant venue for fine Chinese dining, opened in December to rave reviews. The 170-seat restaurant has arched windows that provide natural light and views of Market and Geary streets in the heart of the Financial District.

Before the restaurant opened, NRG San Francisco partnered with Hakkasan's management and design team to formulate a custom thermal solution to provide the restaurant with continuous domestic hot water. We worked closely with the general contractor and subcontractors to finalize the domestic hot water design and installation.

We congratulate Hakkasan's management team on the restaurant's opening, and we wish them success in the years ahead!

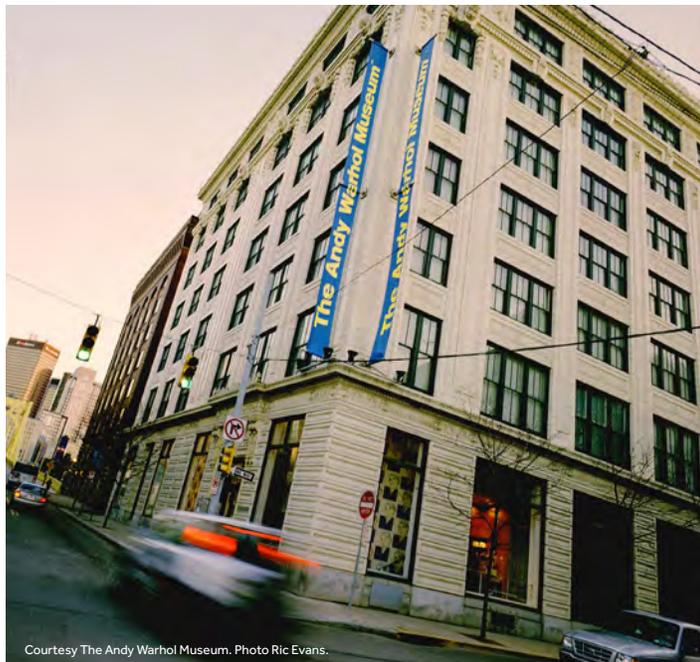
Elsewhere in NRG

Serving The Andy Warhol Museum

The Andy Warhol Museum in Pittsburgh, Pennsylvania, has been a steam and chilled-water customer of our sister company NRG Energy Center Pittsburgh since 1993. Located in the city of Warhol's birth, the Museum opened its doors in May 1994 and is one of the four Carnegie Museums of Pittsburgh.

Built in 1911 as a distribution center for products sold to mills and mines, the Warhol Museum features seven floors of gallery and exhibition space that require reliable and quality heating and cooling service to help protect valuable artwork.

The Warhol collection covers the artist's work from all periods and includes 900 paintings; approximately 100 sculptures; nearly 2,000 works on paper; more than 1,000 published and unique prints; 4,000 photographs; 60 feature films; 200 of his screen tests; and more than 4,000 videos. Learn more at www.warhol.org.



Courtesy The Andy Warhol Museum. Photo Ric Evans.

The Andy Warhol Museum is an NRG Energy Center Pittsburgh customer. NRG Energy Center San Francisco also serves an art museum, the Yerba Buena Center for the Arts.



Courtesy Hakkasan San Francisco.

Situated on the second floor of the iconic One Kearny building, Hakkasan San Francisco—a new NRG San Francisco customer—aspire to set a new benchmark with a sophisticated sense of space.

Customer Safety Reminder



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Leave steam valve operation to NRG San Francisco

NRG Energy Center San Francisco produces and delivers steam to 170 customer buildings around the clock, meeting their needs for space heating, domestic hot water, air conditioning and industrial processes.

To ensure that our steam system continues operating safely, reliably and efficiently, we want to remind customers that only NRG San Francisco personnel are authorized to open and close the steam service valves in customer buildings. **Please do not operate the valves yourself.**

Your cooperation is essential for avoiding damage to property, disruption of steam service, and potentially serious or even fatal bodily injury to persons operating the system or others in the area. As a safety precaution, we've wire-sealed each steam valve in customer buildings and installed metal warning tags that list emergency restrictions.

Please refer to NRG San Francisco's steam tariff, available online at www.nrgenergy.com/pdf/SteamTariff_SanFran.pdf, for clarification on in-building steam service connections and facilities. Leaving steam valve operation to us is an important safety issue. Thank you for adhering to this policy!

If you would like more information or have any steam service concerns, please contact Lisa Smethurst at Lisa.Smethurst@nrgenergy.com or 415.644.9665.





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www.nrgthermal.com/sanfrancisco.htm

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San Francisco

Printed on 100% Recycled Material

From the General Manager Smart Energy Solutions From a Growing NRG

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NRG Energy, Inc. is at the forefront of how people think about and use energy. Not only does our parent company offer environmentally responsible, efficient district heating through NRG Energy Center San Francisco, it's also pioneering other clean, smart energy choices. And it's growing.

NRG recently merged with Houston, Texas-based GenOn Energy, Inc., creating the largest competitive power generator in the United States. The merger strengthens NRG's ability to serve its growing retail energy customer base with safe, affordable and reliable power.

In the solar power arena, NRG recently announced an exciting new project: installing a 400 kW solar energy system at the San Francisco 49ers new Santa Clara Stadium that will help the facility become the first professional football stadium to open with LEED® certification.

The system will consist of three solar array-covered bridges, a solar canopy above the green roof on the stadium's suite tower, and solar panels over the 49ers training center. The arrays will have a total peak capacity of about 400 kW and will provide enough power annually



Courtesy NRG.
From left to right: 49ers President Gideon Yu, President and CEO of NRG Energy David Crane, and 49ers Chief Executive Officer Jed York.

to offset the power consumed at the stadium during 49ers home games. As a result, the stadium will be the first professional sports venue in California to achieve net zero energy performance.

NRG is definitely busy in California! It's also building the nation's first comprehensive, privately funded electric vehicle (EV) infrastructure, through its eVgoSM subsidiary. Here in California, NRG is investing approximately \$100 million

over the next four years in the state's eVgo charging network, consisting of at least 200 publicly available fast-charging stations conveniently located at premier retail locations in the San Francisco Bay area, the San Joaquin Valley, the Los Angeles Basin and San Diego County. The project is a public-private partnership between NRG and the California Public Utilities Commission.

NRG Energy Center San Francisco is proud to be a part of NRG, a visionary—and growing—energy company that gives customers the latest smart energy solutions.



Follow the progress of the new eVgo charging network at eVgoNetwork.com and join the conversation on twitter: [#evgoCA](https://twitter.com/evgoCA).

At a Glance: NRG Energy, Inc.

- ❖ Fortune 300 energy company
- ❖ Ownership interest in almost 100 power generating facilities in 18 states
- ❖ 47,000 megawatts (MW) of fossil fuel, nuclear, solar and wind capacity at almost 100 generating locations, enough to supply nearly 40 million homes
- ❖ Almost 8,000 total employees
- ❖ Largest solar power company in United States with more than 900 MW of solar generation in operation or under construction.

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Spotlight on District Energy

NRG San Francisco's steam arrives at customer buildings ready to use and 100 percent efficient "at the door," compared to the 80% or lower efficiencies of in-building energy systems. By using NRG San Francisco's steam, customers use—and pay for—only as much energy as they need at a given time. They avoid the need to install oversized boilers/chillers to ensure adequate capacity.

