MOSCONE CENTER
SAN FRANCISCO

September 24th through October 6th, 2012

ORACLE OPENWORLD

2012

SUSTAINABILITY REPORT

SMG

Overview of Oracle OpenWorld 2012

- Utilized all of Moscone Center North, South and West
- Closure and tenting of Howard Street between 3rd and 4th Streets
- Projected attendance 50,000
- Event dates: September 24th through October 6th including move-in and move-out days

Here's a snapshot of what this year's OpenWorld looked like:

- 50,000 attendees from 123 countries
- 3,750 total speakers
- 457 partner and customer exhibitors
- 406 Oracle demos going on
- 142,000 cups of coffee served

Energy Consumption

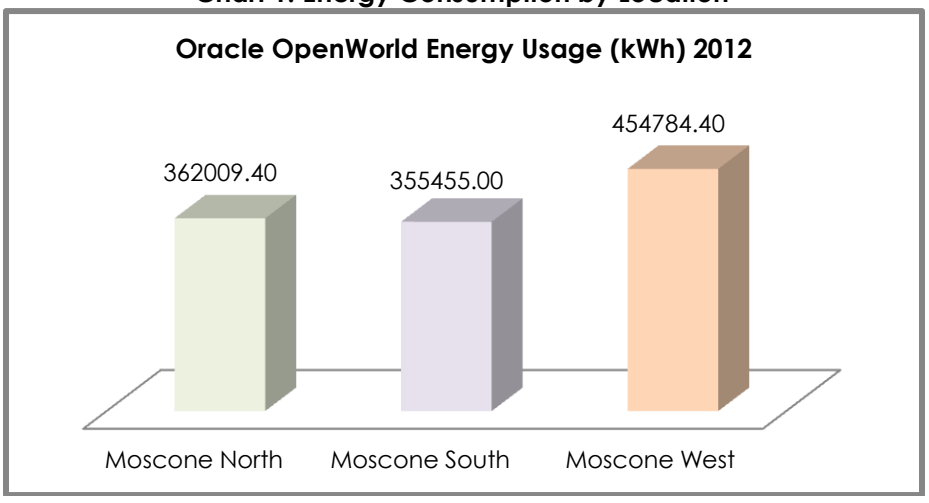
The Public Utility Commission's (SFPUC) power used to serve municipal facilities, including the Moscone Center, is sourced primarily from clean, green, greenhouse gas free hydropower from the Hetch-Hetchy system, as well as power from small solar and biogas facilities located in San Francisco. Greenhouse gases such as carbon dioxide and methane absorb and emit infrared heat from the sun and impact climate change. **Oracle OpenWorld used 1,172,249 kWh of energy for their event held at Moscone North, South and West.** Energy usage was tracked daily and results are summarized in kilowatt hours for each facility as shown in **Table 1** below:

Table 1: Energy Usage	
Moscone North	362,009.4 kWh
Moscone South	355,455.0 kWh
Moscone West	454,784.4 kWh

Kilowatt Hours (kWh)

Chart 1 below shows energy usage in kilowatt hours (kWh) for Moscone North, South and West:

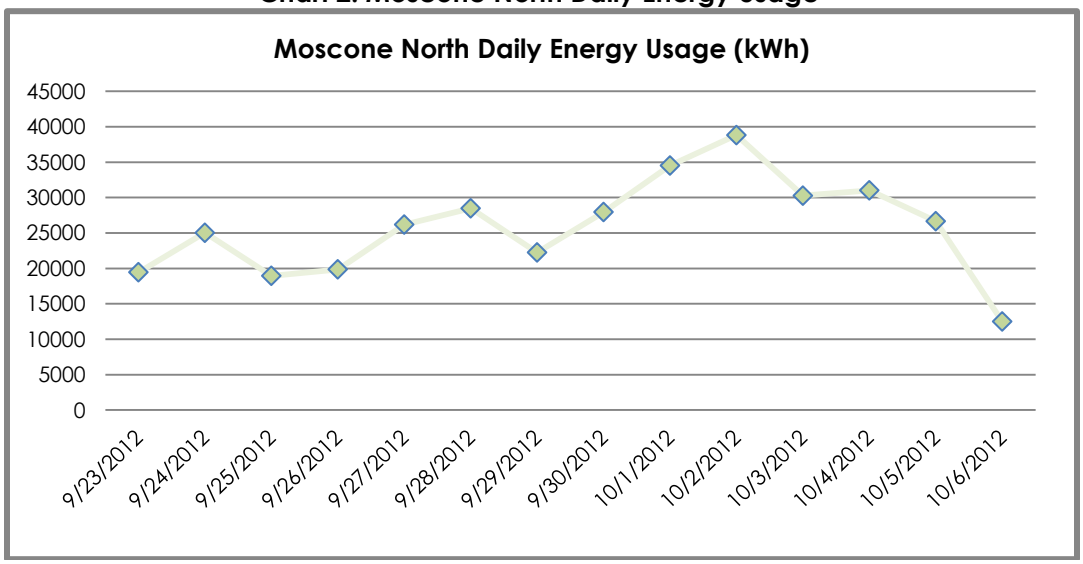
Chart 1: Energy Consumption by Location



Moscone West consumed more energy than North or South. This is likely due to the above-ground design of the facility and the amount of window glass on all three above-ground floors. Energy conservation was achieved through reduced lighting, escalator and HVAC settings during move-in and move-out, as well as evening setback.

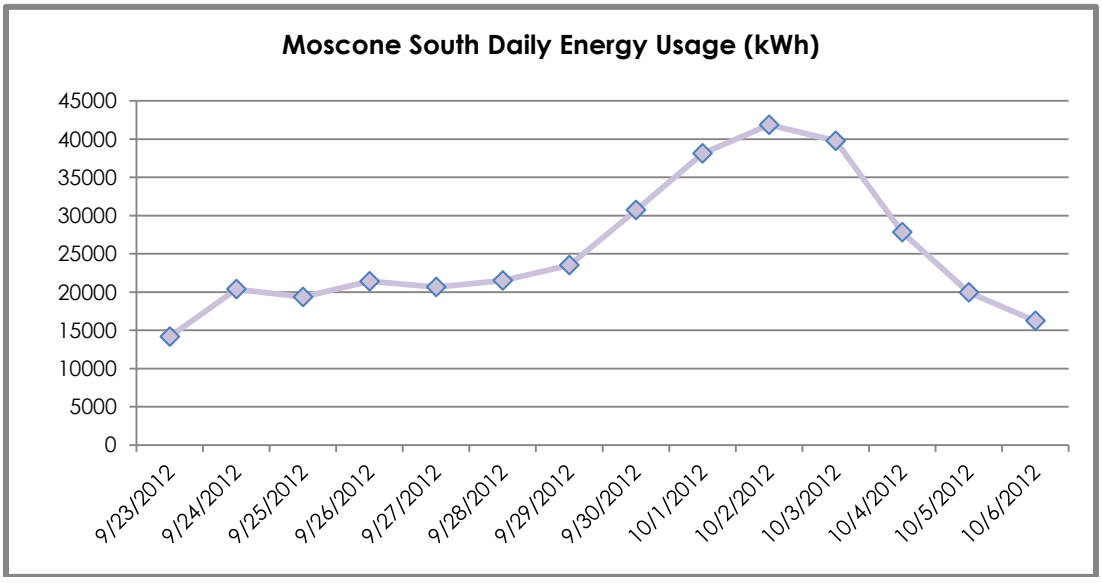
Results of tracking daily energy usage clearly documented less energy used during move-in and move-out days compared to event days, that ranged from September 30th through October 4th. Moscone North consumed just over 362,000 kWh of energy as shown in **Chart 2:**

Chart 2: Moscone North Daily Energy Usage



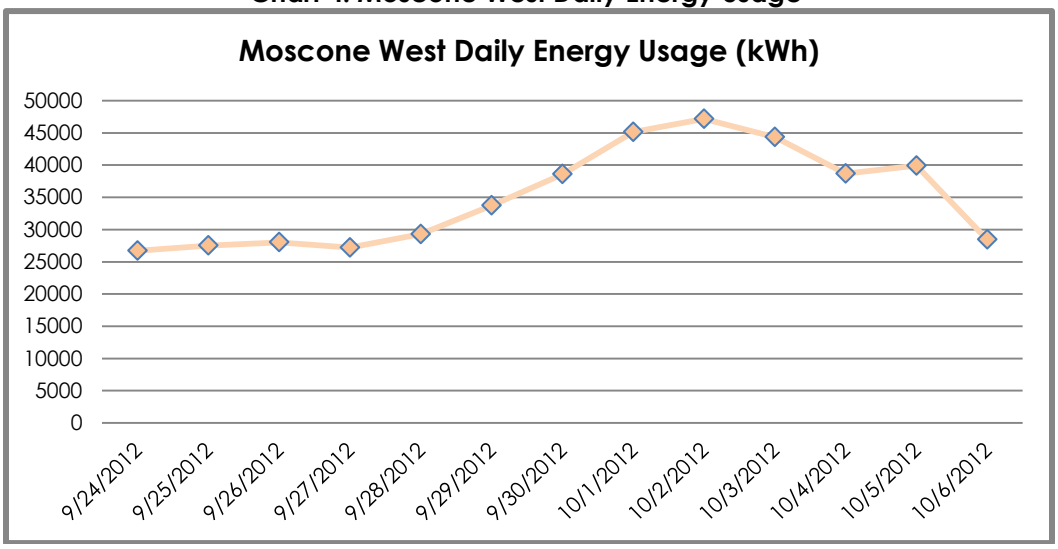
Although the largest, Moscone South used the least amount of energy of any of the three facilities. **Chart 3** below even more clearly illustrates the trend of far less energy being consumed on move-in and move-out days:

Chart 3: Moscone South Daily Energy Usage



Daily energy consumption at Moscone West is depicted below in Chart 4:

Chart 4: Moscone West Daily Energy Usage



Water Consumption

All restroom fixtures at Moscone North and South were modernized during the recent renovation. The installation of low flow fixtures in the restrooms in Moscone North and South is projected to reduce water consumption by 40%.

During Oracle OpenWorld, Moscone North used 383,724 gallons, Moscone South 526,592, gallons including that used for irrigation and 375,055 gallons of water were consumed at Moscone West. In total, water consumption amounted to 1,285,371 gallons. Over September and October, all of the Moscone Center used nearly five million gallons of water (4,994,396 gallons).

Diversion Results

SMG recently expanded the three-stream color-coded diversion program to Moscone Center North and South after piloting it at Moscone West. Green is for all organics including compostable food serve-ware from Savor as well as food scraps. Blue is commingled recycling, which includes all types of paper, cardboard and cans and bottles. Black is for trash that will be landfilled. The photo below shows the three color coded receptacles now available in lobbies and meeting room corridors throughout Moscone North, South and West:

2011 and 2012 Comparison
Diversion results from Oracle OpenWorld in 2011 and 2102 are compared in **Table 2** below:

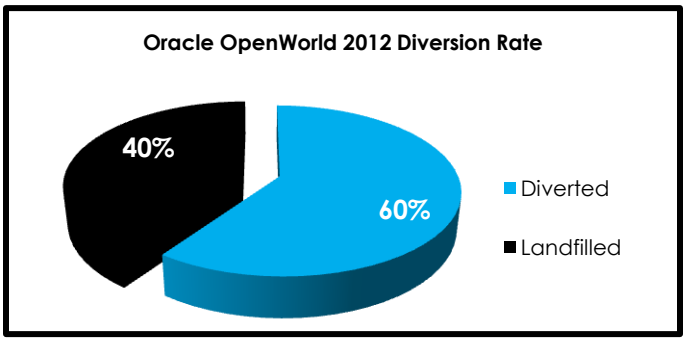
TABLE 2: Comparison of Waste Diversion 2011 and 2012		
Materials	**2011**	**2012**
Compost	36,130	41,140
Recycling	53,430 + 3,810	42,020 +
Landfill	89,297	63,712
Large Debris	4,617	9,624
Plastics/ Wood	2,750 / 5,330	1,246 / 1,000
Total (lbs)	**195,364**	**158,742**

Oracle achieved a diversion rate slightly higher than **60%** by weight during their September/October 2012 event held in San Francisco. The total weight of materials generated was **158,742 pounds**. The main types of materials in diverted are shown by weight in pounds in the **Table 3** below:

Table 3: Material Categories by Weight		
		Pounds
Mixed Paper, Cardboard, Cans & Bottles	42,020	
Wood	1,000	
Donation	tbd	
Visqueen/Film plastics	1,246	
Kitchen Organics	41,140	
Large Debris/ Padding	9,624	
Diverted		94,030
Landfill		63,712
Total Material		**158,742**
Diversion Rate		60%
Recycling Grade		C

An emphasis was placed on exhibitor generated materials during move-in and move-out this year. **Chart 5** below depicts the overall 60% diversion rate attained in 2012:

Chart 5: Overall Diversion Rate Attained 2012



Sustainable Purchasing

All restroom paper towels and toilet paper is made from recycled content paper. As prescribed by the facility's *Green Cleaning Policy*, environmentally preferable cleaning solutions are used.

Moscone North and South LEED® Gold Certification for Existing Buildings

The Moscone Center is the first convention center on the west coast to attain LEED® Gold Certification for Existing Buildings and also San Francisco's largest municipally owned project, by square footage, to do so. Certification was announced on October 3rd, during Oracle OpenWorld 2012. Sustainable renovation features and practices include:

Sustainable Sites

- Approximately 70% of all Moscone Center employees regularly commute using alternative transportation, reflecting San Francisco's extensive public transit.
- Moscone is within a short distance of more than 30,000 hotel rooms.

Water Efficiency

- The installation of low-flow restroom fixtures should reduce indoor water usage by more than 40%.
- Moscone promotes "on the go" access to San Francisco's great tasting Hetch Hetchy Reservoir tap water with water bottle refilling stations, which also reduce waste from plastic bottles.

Energy and Atmosphere

- The 60,000 square feet solar array comprised of 5400 photovoltaic modules on the rooftop of Moscone South reduces greenhouse gas (GHG) emissions by an amount equivalent to planting 62 acres of trees yearly.
- Energy efficiency is 33% above the national average for comparable facilities.
- Green-e Energy Certified Renewable Energy Certificates (RECs) and Green-e Climate Verified Carbon Offsets equal to 50% of the building's annual energy consumption were purchased and will save 5,385 Metric Tons of Carbon Dioxide equivalent from entering the atmosphere each year - removing 1,056 passenger vehicles from the road and preventing the burning of 29.3 railcars' of coal.
- In addition, The SFPUC's power used to serve San Francisco's municipal facilities is sourced primarily from 100 percent clean, green hydropower from the Hetch Hetchy system, as well as power from small solar and biogas facilities.

Materials and Resources

- Renovations diverted 150 tons of materials with an overall diversion rate of 76% attained.
- Carpet, ceiling and restroom tiles are all made from recycled content materials.
- 100% of furniture purchased during the renovation meets sustainable purchasing criteria.

Indoor Environmental Quality

- An improved green cleaning program documented that 94% of products purchased meet green cleaning criteria by dollars spent.

Refer to the Green Meeting link on Moscone's website for more information on Moscone's sustainability initiatives: http://www.moscone.com/mtgplanners/green_meetings.html