

The Sands ECO360 journey...

2015 Sands ECO360 Report



Sands
LAS VEGAS SANDS CORP.

The journey of Las Vegas Sands Corp.

Las Vegas Sands Corp. (LVS) is the pre-eminent developer and operator of world-class Integrated Resorts that feature luxury hotels; world-class gaming, retail, entertainment, convention, and exhibition facilities; celebrity chef restaurants; and many other amenities.



Sands Expo® and Convention Center

Location: Las Vegas, NV
Year opened: 1990
Employees: 100
MICE¹ space: 2.3 million² square feet
Environmental certifications:
 LEED³ Gold® for Existing Buildings, 2010;
 LEED³ Gold® for Building Operations and Maintenance, 2016;
 APEX/ASTM⁴ Venue Level Two, 2013 & 2015
 sandsexpo.com



The Venetian® Las Vegas

Location: Las Vegas, NV
Year opened: 1999
Employees: 8,500 (The Venetian | The Palazzo)
Suites: 4,028
MICE¹ space: 2.3 million² square feet
Environmental certifications:
 TripAdvisor GreenLeaders GOLD, 2013 & 2015;
 APEX/ASTM⁴ Venue Level Two, 2013 & 2015
 venetian.com



Sands® Macao

Location: Macao (SAR), China
Year opened: 2004
Employees: 4,000
Suites: 289
MICE¹ space: 9,000 square feet
Environmental certifications:
 Macao Green Hotel Silver Award, 2012; Gold Award, 2015
 sandsmacao.com



The Venetian® Macao

Location: Macao (SAR), China
Year opened: 2007
Employees: 10,400
Suites: 2,905
MICE¹ space: 1.2 million square feet
Environmental certifications:
 Macao Green Hotel Gold Award, 2011 & 2014;
 EarthCheck Bronze Benchmarked, 2014;
 ISO 20121 Event Sustainability Management Systems, 2014 & 2015
 venetianmacao.com

1. Meetings, Incentives, Conferences, and Exhibitions.
 2. The Venetian, The Palazzo and Sands Expo combined.
 3. The U.S. Green Building Council's LEED® green building program is the pre-eminent program for the design, construction, maintenance and operations of high-performance green buildings. Learn more at usgbc.org/LEED.

Starting with a single property in 1990, the reach of LVS now extends worldwide, from Las Vegas to Macao, and from Bethlehem (USA) to Singapore. Our Integrated Resorts have become premier destinations for travel enthusiasts around the world.



The Palazzo® Las Vegas

Location: Las Vegas, NV
Year opened: 2007
Employees: 8,500 (The Venetian | The Palazzo)
Suites: 3,064
MICE¹ space: 2.3 million² square feet
Environmental certifications:
 LEED³ Silver® for New Construction⁵, 2008;
 TripAdvisor GreenLeaders GOLD, 2013 & 2015;
 APEX/ASTM⁴ Venue Level Two, 2013 & 2015
palazzo.com



The Plaza Macao

Location: Macao (SAR), China
Year opened: 2008
Employees: 1,800
Suites: 376
MICE¹ space: 25,000 square feet
theplazamacao.com



Sands® Bethlehem

Location: Bethlehem, PA
Year opened: 2009
Employees: 2,400
Rooms: 302
MICE¹ space: 29,000 square feet
Environmental certification:
 4 Keys in Green Key Eco-Rating Program, 2013
pasands.com



Marina Bay Sands®

Location: Singapore
Year opened: 2010
Employees: 9,500
Rooms and suites: 2,561
MICE¹ space: 1.2 million square feet
Environmental certifications:
 Singapore BCA Green Mark Platinum, 2015;
 EarthCheck Silver certified, 2014;
 APEX/ASTM⁴ Venue Level One, 2013 & 2015;
 ISO 20121 Event Sustainability Management Systems, 2014 & 2015
marinabaysands.com



Sands® Cotai Central

Location: Macao (SAR), China
Year opened: 2012
Employees: 8,900
Suites: 6,261
MICE¹ space: 550,000 square feet
Environmental certification:
 Macao Green Hotel Gold Award, 2013
sandscoitaicentral.com

4. APEX/ASTM – The meeting industry’s first set of standards for environmentally sustainable meetings, created through a partnership between the Accepted Practices Exchange and American Society for Testing and Materials.
 5. The gaming floor is not part of the LEED certification.



Sands

ECO 360°
GLOBAL SUSTAINABILITY

...to a more sustainable future

Our responsibility to the planet is as important to us as our commitment to the comfort and well-being of our guests and Team Members. The Sands ECO360 Global Sustainability strategy is designed to help minimize our environmental impact, and it reflects our vision to lead the way in sustainable building development and resort operations.

Driven by an aspirational idea, made possible through the dedication and hard work of our Team Members, we continue our journey to a more sustainable future.

Welcome from our Chairman

On behalf of the entire executive team, I am pleased to share the 2015 Sands ECO360 Report. The past year marked the achievement of a significant milestone – completion of Sands ECO360’s strategic five-year plan. This report is a reflection of our journey.

While we started with baseline sustainability efforts in 2007, we accelerated our strategy around four pillars of the current Sands ECO360 Global Sustainability program in 2011. We also set five-year goals for carbon emission and water consumption reductions, along with recycling (diversion) rate improvement.

The results of these efforts have been impressive, and we continue to strive for high achievement on all fronts.

We exceeded our carbon footprint target, reducing emissions by 8.1% in existing resorts and by 19.6% in

newer properties. We also completed more than 300 energy efficiency projects globally and reduced our electricity consumption by 247 million kWh since 2010. Finally, we improved our diversion rate by 11.5% and 12.2% at our existing buildings and newly opened properties, respectively, meeting our target. Yet, we still have more work to do. After experiencing challenges in reducing water consumption, our progress has been slower than expected and we remain dedicated to achieving the goals we set.

Since 2011, we also opened several new properties incorporating our most advanced internal green building standards, with each new development surpassing the previous one in efficiency. Once in operation, each property has remained focused on conservation of natural resources.

Transparency and accountability remain our primary objectives. Of our nine properties worldwide, eight hold at least one environmental certification. We

also re-certify our resorts regularly to keep up with industry advancements.

Another major highlight of the past five years was introducing and building an industry-leading Green Meetings Program. We have hosted many world-class sustainable events, and the program has evolved to meet the ever-changing needs of our customers as we strive to become the number one host for green meetings in the world.

This dedication to sustainable business practices has resulted in recognition from leading industry authorities. Last year, Las Vegas Sands Corp. was recognized in the CDP’s A List and Climate Disclosure Leadership Index for management and measurement of greenhouse emissions. Our company was also listed in the Dow Jones Sustainability

Indices (DJSI) for our industry-leading corporate sustainability efforts in North America.

None of these accomplishments would be possible without the active participation of our Team Members. As we look down the road to the next five years, we will deliver even greater results working together across our properties to share sustainable best practices and drive toward the high standards for environmental responsibility we set as a company.

Thank you for your interest in the Sands ECO360 sustainability journey.

Sheldon G. Adelson,
Chairman of the Board
and Chief Executive
Officer and Treasurer,
Las Vegas Sands Corp.



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Sands ECO360 strategy

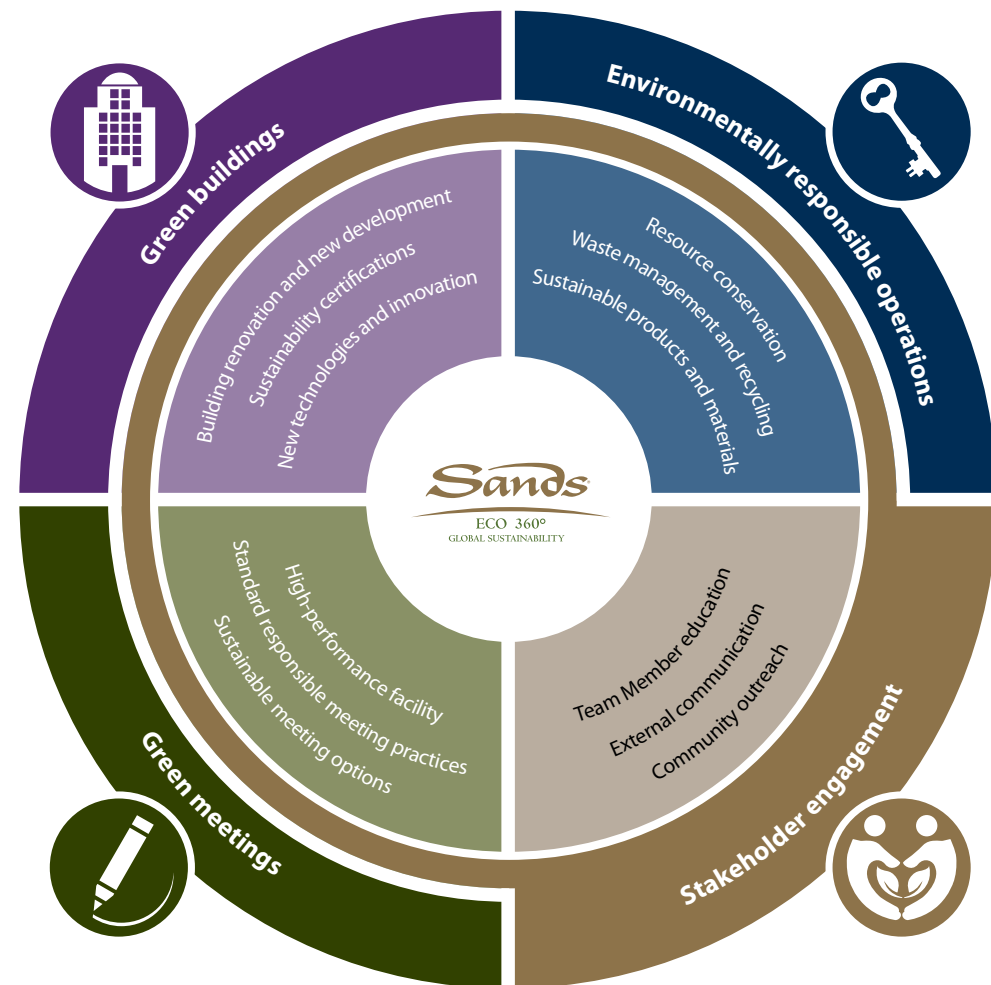
The Sands ECO360 Global Sustainability program reflects our vision to become a leader in sustainable development and resort operations. We developed Sands ECO360 around the four pillars below by identifying areas with the greatest environmental impact and opportunity.

Governance and integration

In developing a comprehensive strategy, we assessed our operations and evaluated where we have the greatest environmental impact and opportunity. We continually monitor and measure our environmental footprint to develop challenging yet attainable objectives and targets. Education and outreach span all areas of our strategy; we seek to engage each stakeholder group on a regular basis.

Our strategy is integrated across the entire business and given prominence at the highest levels of governance. The President and Chief Operating Officer has overall responsibility for Sands ECO360. The Senior Vice President, Chief Procurement and Sustainability Officer leads the Global Sustainability Department, which develops and implements the strategy.

Property sustainability departments execute the sustainability strategy and identify future opportunities. Established Green Teams champion sustainability programs in various departments such as Facilities, Hotel Operations, Food and Beverage, Casino Operations, Purchasing, Sales, Convention and Catering Services, and Human Resources.





Key issues and our stakeholders

Our key issues

Our strategy is based on the environmental issues identified as being of most importance to our business, stakeholders and society. We monitor and evaluate issues pertaining to our Sands ECO360 strategy through regular interaction with internal and external stakeholders across our business globally.

We assess materiality through:

- the stakeholder engagement efforts undertaken during the ISO 20121 certification process at our properties in Singapore and Macao
- the reputation research conducted by the corporate team among our Team Members and community leaders
- workshops and sessions held by sustainability teams to review key issues and update the Sands ECO360 strategy
- secondary research on current and emerging issues from academic institutions, industry associations, peers, and partners.

	Energy	Water	Waste	Air quality	Sustainable sourcing	Regulation and gov't relations	Guest satisfaction	Local community
Green buildings	Renovation and development	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Certifications	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Innovation	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Environmentally responsible operations	Resource conservation	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Waste management	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Products and materials	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Green meetings	Facility	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Standard practices	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Sustainable options	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Stakeholder engagement	Team Members	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	External communication	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Community engagement	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Our stakeholders

We prioritize our engagement with the following key stakeholders who are most interested and/or affected by our business.

Team Members

Across the world, we employ over 51,000 Team Members; they contribute to our sustainability strategy and help deliver it every day.

Investors

Our investors understand sustainability drives efficiency; they increasingly value the corporation's environmental and social responsibility.

Clients and guests

As more clients and guests expect strong environmental credentials and services, Sands ECO360 enables us to attract and retain these clients.

Government agencies

We collaborate with government agencies to develop and implement environmental policy.

Non-governmental organizations (NGOs)

Sharing best practices and building strong relationships with environmental NGOs inspires us and drives our innovation.

Communities

They are home to our properties and our Team Members. Each of our destinations has different community needs and we work with local groups to make their area a better place to live.

Suppliers

We continually partner with our suppliers by embedding sustainability into our procurement process.

Academic institutions

We exchange knowledge, participate in and fund research projects, and provide learning opportunities to students.



The Sands ECO360 journey to... green buildings

Building renovation and new development
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2015 highlights



Green Mark
Platinum
certification of
Marina Bay Sands



GreenLeaders
Award
for The Venetian
Las Vegas' 3,000-
suite renovation



Micro-wind
turbines powered
by sun and wind
at Sands Macao



Our journey of sustainable development...

2007

The Palazzo Las Vegas was our first green building constructed according to the LEED rating system.

2009

Built on the 126-acre former Bethlehem Steel plant, Sands Bethlehem is the largest remediated brownfield site in the United States. This project demonstrated our commitment to preservation.

2010

Marina Bay Sands in Singapore was designed and built using the Singapore Building Construction Authority Green Mark Standard, with sustainable features such as a rainwater harvest system and wind-activated art that reduces solar heat transfer.

2012

Sands Cotai Central was our first property in Macao to introduce sustainability features such as recycling and more efficient LED lighting into the development process.

2013

The Global Sustainable Development Standards were created for new development and renovation projects.

2014

With our rapid expansion in Macao, we relocated a green building expert to oversee the implementation of our Sustainable Development Standards.

2015

- After successfully deploying the standards in new development projects, we applied them to upgrading our existing buildings.
- We opened The St. Regis Macao, our first property with all LED lighting.



Our Integrated Resort business model offers an array of luxury amenities under one roof to deliver the ultimate guest experience. As we bring this vision into new destinations, we do it with the utmost respect for our hosting communities. We consider the overall economic, social and environmental impact of our developments and operations, and incorporate our robust sustainability standards into every aspect of our signature resorts.

Robert Goldstein,
President and Chief
Operating Officer



Our iconic properties are architectural masterpieces and many of them are also examples of functional sustainable design. As a developer of Integrated Resorts, we have the opportunity to influence design and construction decisions to build high-performance green buildings.

Building renovation and new development

Designing efficient buildings provides the foundation for natural resource conservation during years of operation. Our green buildings journey started with the construction of The Palazzo Las Vegas in 2007, when we successfully achieved LEED Silver® level certification. As we expanded into new markets, we identified and adopted regional standards (such as Green Mark in Singapore) to address local environmental concerns. Based on the LEED system and our best practices, we then created our Global Sustainable Development Standards for new development and renovation projects. We have continued to advance these guidelines over the years in line with industry trends to raise the bar for every new property.



The Palazzo Las Vegas



The Parisian Macao

What's next?

The Parisian Macao, due to open in 2016, will be our first project in Macao to pursue LEED certification and our most sustainable property to date.



Sustainability certifications

Third-party certifications validate our environmental record and achievements. Our goal is to have at least one green building certification for each property. We also keep pace with industry developments through re-certifications. Since 2008, we have received 20 green building certifications and awards at our eight global properties.

2008

US Department of Energy's Energy Innovator Award
The Palazzo Las Vegas

LEED Silver® Certification for New Construction
The Palazzo Las Vegas

2011

Water Efficient Building Certification from the Public Utilities Board
Marina Bay Sands

Macao Green Hotel Gold Award
The Venetian Macao

2013

Macao Green Hotel Gold Award
Sands Cotai Central in Macao

EarthCheck Bronze Benchmarked
Marina Bay Sands

TripAdvisor GreenLeaders Gold Certification
The Venetian and The Palazzo Las Vegas

Green Key Eco-Rating Certification, 4 Keys
Sands Bethlehem

2015

Singapore Building Construction Authority Green Mark Platinum
Marina Bay Sands

LEED Gold® for Building Operations and Maintenance¹
Sands Expo and the Congress Center at The Venetian and The Palazzo Las Vegas

Macao Green Hotel Gold Award
Sands Macao

TripAdvisor GreenLeaders Gold Certification
The Venetian and The Palazzo Las Vegas

LEED Gold® for Existing Buildings
The Venetian Las Vegas and Sands Expo and Convention Center

2010

Singapore Building Construction Authority Green Mark Gold
Marina Bay Sands

Macao Green Hotel Silver Award
Sands Macao

2012

EarthCheck Silver Certification
Marina Bay Sands

Macao Green Hotel Gold Award
The Venetian Macao

EarthCheck Bronze Benchmarked
The Venetian Macao

2014



1. We officially received the certification in 2016 but the majority of the certification work was conducted in 2015.





New technologies and innovation

We look for innovative technologies to further reduce our environmental footprint. We first pilot the measures at a smaller scale to ensure they meet our requirements for performance and return on investment. If proved technologically and financially viable, they are deployed globally.

Renewable energy

We are the first resort on the Las Vegas Strip adopting on-site renewable energy technologies. We installed 680 solar photovoltaic panels on top of the Team Member parking garage, which generates 116 kW(DC) of electricity. At The Palazzo we have one of the largest rooftop solar-thermal systems in the United States to provide hot water for swimming pools, spas, and a portion of the hotel tower. Sands Macao added pole-mounted lights with micro-wind turbines, which harness energy from both the wind and the sun.

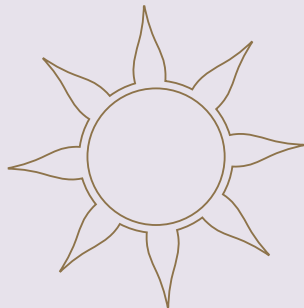


1,665 tons

of food waste has been converted into grey water by digesting machines in Macao, Singapore and Bethlehem since 2014

Food waste

In Macao, Singapore and Bethlehem, food waste is fed into machines that turn it into grey water which can be safely discharged down the drain. Since the machines were installed, 1,665 tons of food waste has been diverted from the landfills.



116 kW(DC)

of electricity generated by the 680 solar photovoltaic panels on top of the Team Member parking garage in Las Vegas

Non-potable water sources

Designed as a lotus flower, the roof of the ArtScience Museum at Marina Bay Sands collects rain water, which is filtered and used for restroom facilities. In Las Vegas, the nano-filtration system at The Palazzo saves 12 million gallons of potable water each year, keeping the property off the municipal water grid for irrigation purposes.





GREEN BUILDINGS



OPERATIONS



GREEN MEETINGS



ENGAGEMENT

PERFORMANCE

The Sands ECO360 journey to... environmentally responsible operations

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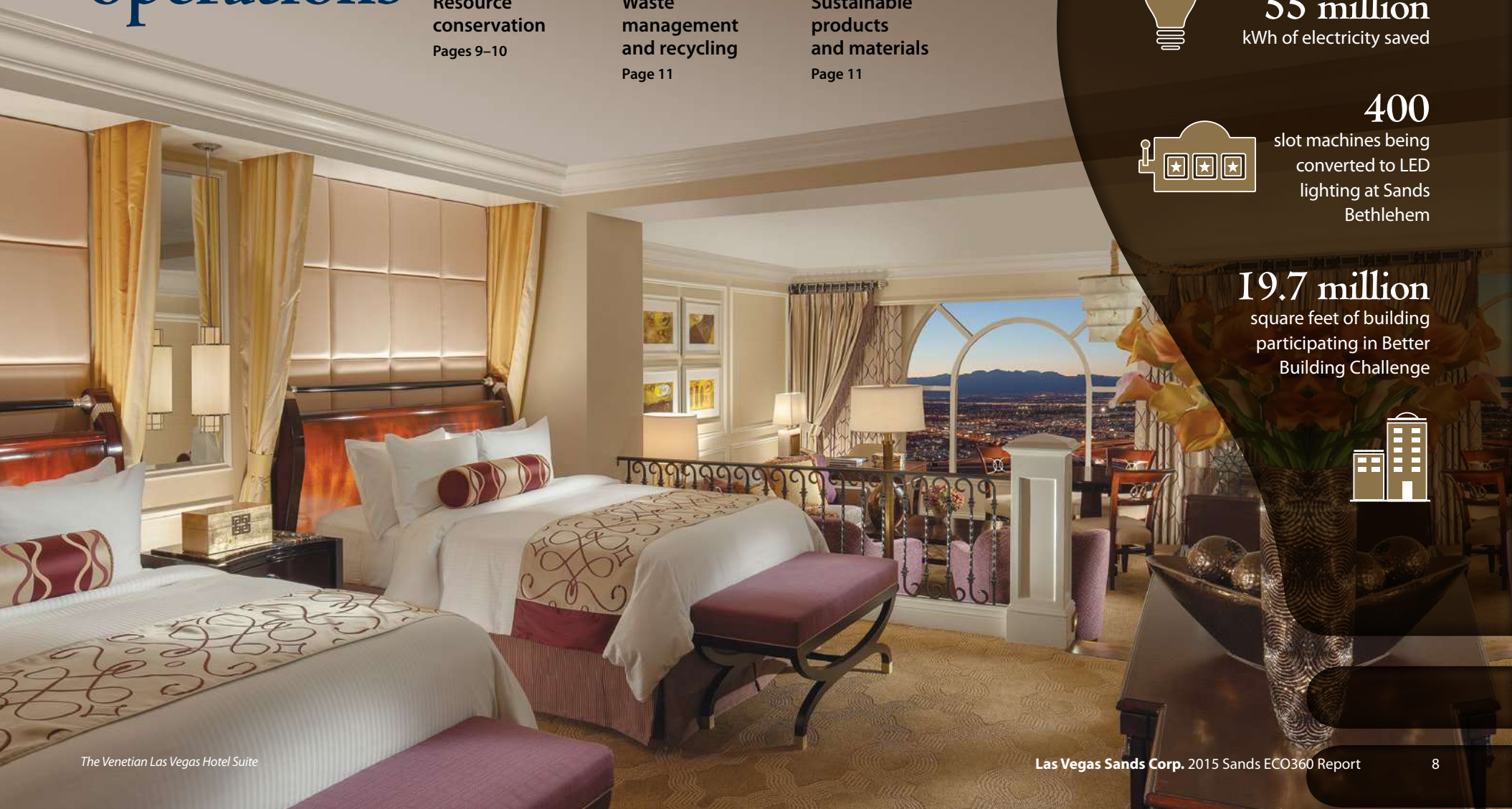


55 million
kWh of electricity saved



400
slot machines being
converted to LED
lighting at Sands
Bethlehem

19.7 million
square feet of building
participating in Better
Building Challenge





Las Vegas Sands is a trailblazer in environmentally responsible initiatives that have a positive impact on both the environment and the guest experience. The company has been at the forefront of LED adoption, working with our teams to innovate solutions that dramatically reduce energy costs while enhancing their environments. We are proud to work with Las Vegas Sands on sustainability programs that always leave measured impact and are viewed as best practices across industries.

Jaime Irick, Chief Commercial Officer, *Current*, powered by GE



Our journey of LED lighting...

2011

When LED was still a new concept in the market, we set up our own lighting lab and started evaluating the technology.

2012

After testing thousands of LED light bulbs, we became a topic expert and standardized global implementation based on our own life-cycle cost analysis tool.

2013

We partnered with General Electric to develop a new LED lamp specifically for our meetings and conventions space.

2015

The St. Regis and The Parisian were designed to be our first properties with 100% LED lighting.



Achievements

We have replaced more than 550,000 inefficient light bulbs with LEDs globally since 2011, achieving

90 million kWh of energy savings.

Resort operations account for most of our environmental impact. By implementing responsible practices and cutting-edge technologies, we can reduce our natural resource consumption and improve the experience of our guests and Team Members.

Resource conservation

Our safeguarding of natural resources, such as energy and water, is the cornerstone of our environmentally responsible operations. Years of conservation experience have enabled us to establish a robust energy management process, through which we set annual reduction goals for our properties based on five-year emissions targets. The sustainability and facilities teams research new ideas and test available technologies to identify conservation opportunities, subsequently managing their implementation and evaluating performance. Our teams have completed more than 300 projects worldwide since 2010, resulting in annual electricity savings of 247 million kWh – more than enough to power The Venetian, The Palazzo and Sands Expo in Las Vegas combined.

We operate large and complex buildings, some with up to 60,000 management control data points. Our work has evolved from simple technology deployment (such as lighting retrofits) to more sophisticated process and system improvements, such as building re-commissioning, air side optimization and chiller plant optimization. Our new electronic dashboard stores and analyzes utility consumption and emissions data to better understand our performance. We also developed a project management system to more effectively execute the reduction efforts.

What's next?

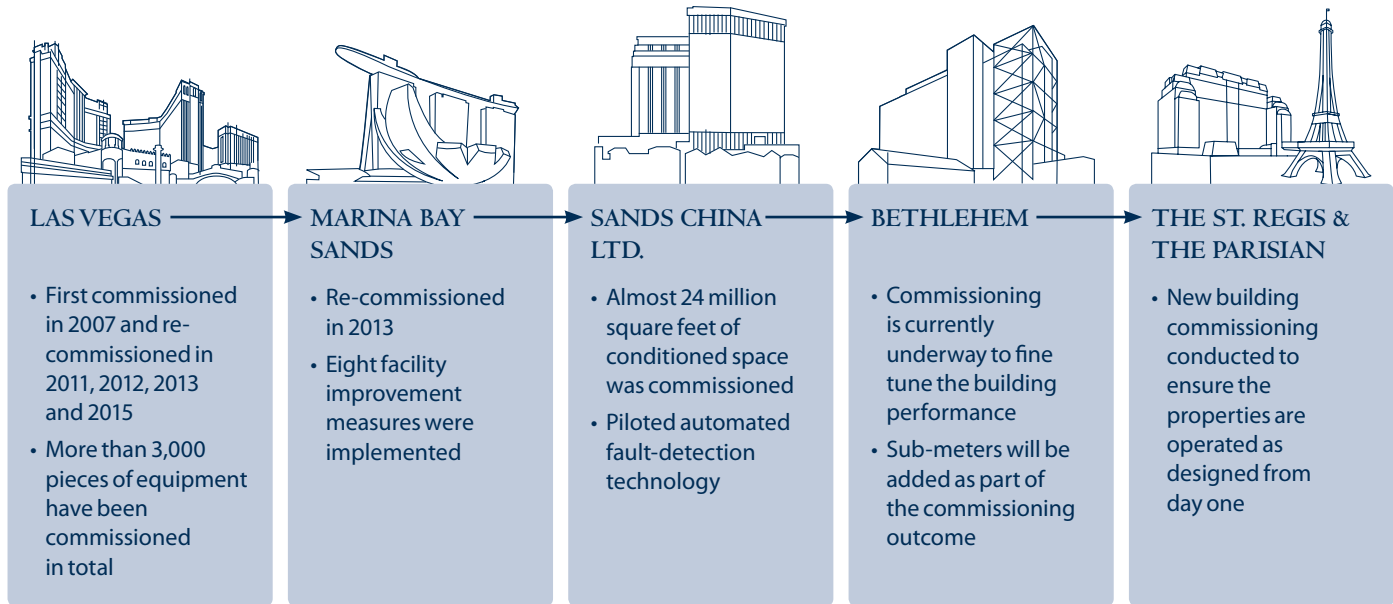
The Parisian Macao's Eiffel Tower will be equipped with 6,700 LED bulbs which use 50% less energy compared to incandescent and xenon lights that would have normally been installed.



Resource conservation

Building commissioning

Even with the most efficient designs, buildings do not always function as intended when they first open. Furthermore, equipment and systems tend to lose efficiency over time. The commissioning process is designed to find and correct deficiencies, and adjust systems to optimize performance. The process also helps to identify improvement measures and projects that can further reduce energy consumption. We first went through commissioning during the construction of The Palazzo Las Vegas in 2007 and have since expanded the practice to our other properties.




Water conservation


Our water conservation efforts have focused on fixture upgrades and plumbing system maintenance, as well as replacing potable water with non-potable water sources where feasible.

Starting in 2013, we performed comprehensive water audits and developed three-year reduction plans. More than 20 conservation initiatives have been implemented to date, with savings of more than 200 million gallons.


Highlights




Water Hero Award received by Las Vegas properties for saving more than 10 million gallons of water in 2014.




Wind detection system at Sands Macao external water feature prevents water waste during windy conditions.




Educational roadshow in Macao provides Team Members with water-saving tips, and offers discounted showerheads and aerators.



Water control measures save The Venetian Macao 90 million gallons of water per year.



Replacing liquid soap with foam soap saves an estimated 1.7 million gallons of water in Las Vegas.

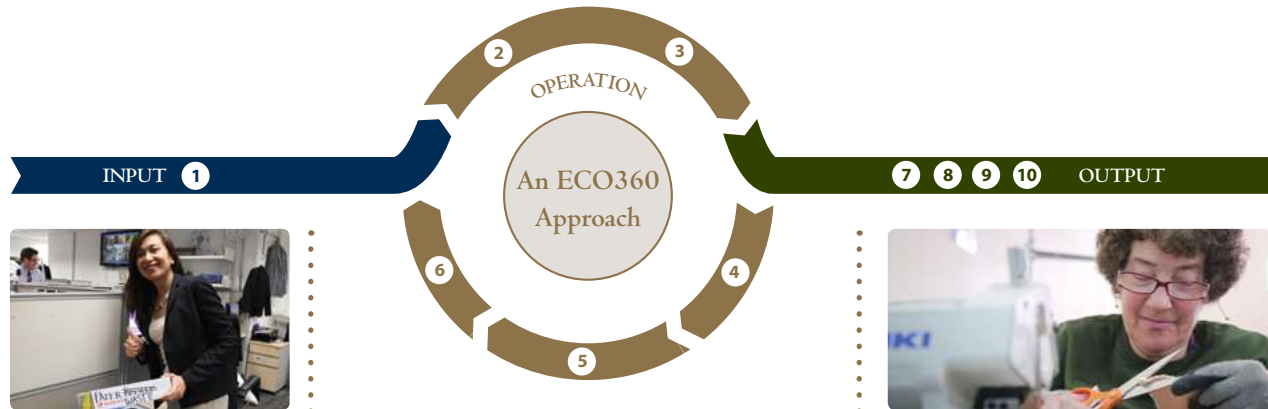


Switching to NEWater (high-grade reclaimed water) for car washing and irrigation saves potable water at Marina Bay Sands.



Waste management and recycling

We have taken a holistic approach to waste management through developing solutions suitable to our regional operations.



Input

- 1 Minimization:** we reduced our paper use by removing phone books, using electronic documents and signage, and implementing paperless checkout.



Operation

- 2 Upstream sorting:** 100 recycling centers have been strategically placed throughout our Macao properties.
- 3 Audit & dock efficiency:** we conduct waste audits to identify potential opportunities to improve dock efficiency and the entire waste management process.
- 4 Team Member education:** we host annual engagement events (such as the Sands Recycles holiday collection drive).
- 5 Food waste reduction:** to prevent food waste, we encourage Team Members to take only what they can eat and adjust banquet food preparation according to the most up-to-date attendee counts. We also stopped buffet serving for internal events.
- 6 Incentive program:** in Las Vegas, we offer a profit-sharing program to motivate recycling dock employees to increase the diversion rate.



Output

- 7 Recycling:** we strive to recycle as many commodities as we can. In Las Vegas, we operate an on-site sorting facility, while we work with suppliers to maximize off-site sorting in Asia.
- 8 Donation:** we donate products of value to organizations in need. In Las Vegas, we launched a prepared food donation program for unused meals from catered events.
- 9 Reuse:** we partner with non-profit organizations to repurpose worn hotel linen into cleaning cloths. This gives vocational training and employment to individuals in our community.
- 10 Food waste:** our Las Vegas properties send their food waste to a local pig farm for feedstock. Our properties in Macao, Singapore and Bethlehem utilize digesters to process leftover food into grey water.

Sustainable products and materials

We execute our sustainable procurement strategy at both product and company levels. For products, we have established sustainable requirements for 11 major categories such as office suppliers, light bulbs, cleaning products, and building materials. We measure our purchases and set improvement goals. At a company level, we collaborate with suppliers to learn from their expertise and find sustainable product solutions. In 2015, we held a supplier roundtable in Las Vegas to identify new ways to increase our sustainable food purchases. One idea suggested was the use of “imperfectly delicious produce” – flavorful but cosmetically imperfect fruits and vegetables, which are unsuitable for store displays but entirely acceptable for cooking. We also recognize our vendors with the Sands Supplier Excellence Awards. “Corporate Culture and Sustainability” is one of the seven award categories presented to companies with strong environmental leadership, vision, and strategy.



Strategic journey to 2015

Sands ECO360: our achievements at a glance

From the establishment of the Sands ECO360 program, we have worked to put sustainability at the heart of everything we do. We have not only built better and greener buildings, but also raised the standards for the resorts we already operate.



2007

Integrated **LEED**

Green Building standards into the development of The Palazzo Las Vegas.



Launched **Sands ECO360** Global Sustainability program.

Initiated energy reduction efforts in Las Vegas to improve operational efficiency and achieved LEED Gold® for Existing Buildings certification for The Venetian and Sands Expo in Las Vegas (the largest hotel in the world to receive this certification).

2010

32.5 million kWh

from efficiency projects globally.

Released 2011 Sands ECO360 Report (first environmental report by a gaming company verified by GRI).

Upgraded Sands ECO360 Green Meetings Program.

2012

Measured and verified our carbon inventory, and conducted first **CDP** Climate Change response.

Launched the first Sands Sustainable Procurement Policy.

Began publication of the Sands ECO360 Quarterly Newsletter.

Newsweek ranking jumped to **#128** from #238 in the U.S.



Clean the World

amenities recycling partnership launched in Las Vegas.

Started energy reduction efforts at Marina Bay Sands, Singapore and Sands China Ltd., Macao.

Launched Sands ECO360 Green Meetings Program.

2011

Revised the Sands ECO360 strategy to focus on four pillars, and developed Sands ECO360 Roadmap and reporting systems (ECO Tracker and Action Plan).

Set 5-year sustainability goals.



Resource conservation and recycling have been integrated into our daily work. Sands ECO360 has allowed us to offer better sustainable meeting services, and enabled us to contribute more to the communities around us. With our strategy as our compass, we have made real progress on a global scale.

2013

Launched the Sands ECO360 Sustainable Development Standards.

Saved

47.3 million

kWh through efficiency projects globally.

Sponsored Clean the World to set up a recycling facility for Macao and Hong Kong.

Achieved CDP Climate Disclosure Leadership Index (CDLI).



2014

Saved

112.5 million

kWh through efficiency projects globally.

Integrated sustainability into new developments: The St. Regis and The Parisian in Macao.

Implemented an energy dashboard to streamline energy tracking, reporting and management.

Newsweek Green Rankings –

18th

in the U.S. and 28th globally.



Saved

54.9 million

kWh through global efficiency projects.

Updated green meeting strategy to focus on added value to our clients.

Incorporated sustainability into remodel and renovation projects.

Developed

3-year plan

for water and energy conservation projects at all properties and identified promising new technologies.

99A

ranking in CDP, achieved both disclosure (CDLI) and performance (Climate A List) leadership indices.

Listed on **Dow Jones Sustainability Indices** (DJSI) North America.

Developed strategic plan for 2016–2020.

2015





The Sands ECO360 journey to... green meetings

The Sands ECO360 Meetings Program
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The journey of our signature events
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2015 highlights



163
green meeting events held across our properties



2,172
pounds of trade show materials donated from IMEX America



Las Vegas Sands has come a long way since we started to work together in 2013. Their commitment and progress is exemplary, and now a global reference in the meetings and events industry. When MCI chooses a Sands venue, we have confidence that this is a responsible choice.

Guy Bigwood, Group Sustainability Director, MCI



The journey of our Green Meetings Program...

2011

- Launched Sands ECO360 Meetings Program in Las Vegas.

2012

- Appointed dedicated Green Meeting Concierges.
- Developed Sands ECO360 Impact Statement.
- Created property-specific Planning Tools.
- Established volunteering programs for attendees.
- Expanded Sands ECO360 meetings to properties in Asia.
- Trained 300 Team Members globally.

2013

APEX/ASTM Environmentally Sustainable Meeting Standards Certification:

- Las Vegas – Venue Level 2 (first in the world).
- Marina Bay Sands in Singapore – Venue Level 1 (first outside of the U.S.).

2014

- Marina Bay Sands in Singapore and The Venetian Macao achieved ISO 20121 Event Sustainability Management Systems Certification.
- Sands China Ltd. received IMEX-GMIC Green Supplier Award.
- Hosted more than 100 sustainable events across our properties globally.

2015

- Marina Bay Sands in Singapore received the IMEX-GMIC Green Supplier Award.
- Sands Expo in Las Vegas established a surplus food donation program with Three Square Food Bank.
- Held Sands ECO360 Meetings Program strategic plan workshop to set the strategic direction for upcoming years.

Meetings and conventions are integral to the Las Vegas Sands business model. First established in 2011, the Sands ECO360 Meetings Program was created to support forward-thinking clients in making their events more sustainable. Since then the program has become our global standard. We have hosted many high-profile sustainable events internationally, and earned various world-class certifications and awards.

The Sands ECO360 Meetings Program

Our program provides environmentally preferable options to meeting planners and clients. With three simple steps, we can help transform an event into a sustainable gathering at our Integrated Resorts.

Step 1: Explore Green Meeting Venues – Our high-performance buildings, most of which hold third-party environmental certifications, provide the foundation for our program. All meeting clients benefit from our standard sustainable practices, seamlessly integrated into daily operations at no additional cost.

Step 2: Meet Green Meeting Concierge – When planners like to go above and beyond, our designated Green Meeting Concierge can customize their sustainable event.

Step 3: Select Sands ECO360 Meeting Options – We provide sustainable options to event organizers, offering ways to further reduce environmental impacts and give back to the community.

Achievements

120,000+

surplus meals prepared for catered events have been distributed to locals who are fighting hunger in Las Vegas.





The journey of our signature events

Shared values with IMEX America

The Venetian, The Palazzo and Sands Expo, Las Vegas

IMEX America is one of our most sustainable annual events, thanks to our shared strategic vision and disciplined execution since 2012. Together we challenge ourselves to achieve better results and drive innovations, by implementing initiatives to reduce the event’s environmental footprint and encouraging attendees to give back to the local community. We have focused on four important areas:

Waste diversion

We have steadily improved how waste is dealt with at IMEX America.

- 2013 **More than doubled** the quantity of show materials donated from 2012, and launched an upstream recycling program for meeting rooms.
- 2014 **20%** reduction in total waste generated – the most significant being 56% reduction in food waste.
- 2015 Program expanded to engage buyers and exhibitors in recycling efforts.

Sustainable food

Sourcing sustainable food is a challenge for us, and we have worked closely with IMEX America to find solutions.

- 2012 **Local and regional** food was sourced, including cookies from a charitable organization and fresh shrimp from a sustainable farm.
- 2013 **“Brain food”** (food that is healthier and more nutritious) was incorporated into the menu to help improve the focus and productivity of meeting attendees.
- 2015 Launched “WaterWiseWednesday” program offering alternative food produced with less water.



Community engagement

We have acted as a liaison between IMEX and local charities, and sponsored several initiatives.

- 2012 **269** hygiene kits were built, and 787 lb. of bar soap and 1,362 lb. of bottled amenities were sorted by attendees as part of the Clean the World program.
- 2013–2014 **“Healing garden”** was created by IMEX volunteers together with our horticulture team, for Shade Tree, a local women’s shelter.
- 2015 Sands Cares (our global corporate citizenship program) and IMEX explored bringing new Corporate Social Responsibility (CSR) programs to future events.



Health and wellness

Health and wellness has become a new focus of the event.

- 2015 IMEX launched “Be Well at IMEX America” to help attendees feel refreshed and revived throughout the show. A guided meditation room created a quiet space to relax. Exhibitors on the show floor provided smoothies, juices, healthy snacks, relaxing massages, and healing foot balms.



The IMEX journey with Sands has been an incredibly exciting one. Who knew five years ago we would be able to achieve so much in a relatively short period of time. With collaboration among IMEX, Sands and our consultant MeetGreen, we advance the sustainability efforts of the event every year.

Dale Hudson,
Knowledge and Events Director,
IMEX Group





Responsible Business Forum

Marina Bay Sands, Singapore

The Responsible Business Forum on Sustainable Development is an annual platform for leaders and sustainability professionals to share their stories, engage with key stakeholders and agree on future actions. Marina Bay Sands in Singapore has hosted this high-profile event since 2013, working with the event organizers to plan their logistics and operations, and ensure that together we reduce the event’s environmental impact and contribute to the local community.



2014

Sustainable seafood

was introduced to the awards dinner menu and the event’s power consumption was live streamed by energy partner Kiwi Power. Initiatives implemented at the Responsible Business Forum won the 2014 IMEX-GMIC Green Meeting Award.

2013

Sands ECO360

Green Meetings Program standard practices were implemented, including waste recycling, hosting the Soap for Hope CSR event, developing a harvest vegetarian menu with local and regional food, and measuring food waste per attendee.

2015

We were named the Event Sustainability Partner by the Forum and joined its advisory committee to share our knowledge and commitment to sustainable development.

We take pride in our achievements and acknowledge that sustainability is an ongoing process and journey. We are planning to advance our sustainability offerings and community CSR programs.

Macao ECO TrailHiker

The Venetian Macao, Macao (SAR), China

Sands China Ltd. has supported the Macao TrailHiker since it was established in 2010. TrailHiker aims to promote healthy lifestyles and build team spirit, while exploring the greener side of Macao and learning about sustainability. Green initiatives have been incorporated into the event’s planning process since the 2013 launch of our Sands ECO360 Green Meetings Program in Macao.



171

pairs of shoes were collected from participants and our Team Members, benefiting Save Our Soles – a student-driven charity that provides used shoes to impoverished people in Siargao, the Philippines.

78%

return rate on a reusable badge collection program launched at the event.



Sustainable food

was served at the event, including 10% local, 20% organic, 20% vegetarian and 10% sustainable seafood.

2,180 participants joined the event and MOP 400,000 (\$50,000) was raised for Macao Special Olympics and The Macao Association for the Mentally Handicapped.



The Sands ECO360 journey to... stakeholder engagement

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2015 highlights



7,459

I Will if You Will actions by our Team Members globally



200,000

hygiene kits built with Clean the World

First-time

inclusion on DJSI North America





The journey of I Will if You Will...

2011

We participated in our first global Earth Hour by turning off all external lighting for an hour on March 26.

2012

In addition to the traditional "Turn off the light" campaign, Marina Bay Sands started turning off exterior lights three weeks prior to Earth Hour.

2013

We adopted the World Wildlife Fund's (WWF's) "I Will if You Will" campaign for Earth Hour. More than 2,200 Team Members participated.

2014

We adopted WWF's "Use Your Power" slogan to communicate the power that each individual has to make a change.

2015

This year's challenge was a call to action for our Team Members to replace old inefficient light bulbs around their homes with more efficient alternatives. We collected more than 7,400 lamps from our Team Members.



I lead the recycling champions group for Sands China Ltd. and am really proud to be able to engage our Housekeeping Team Members to enhance our recycling programs and show the differences they are making with their sustainability efforts!

Dina Angelucci, Executive Director of Housekeeping Operations, Sands Cotai Central & The Parisian Macao



Achievements

From 2012 to 2015, our Team Members took

19,108

I Will if You Will actions globally.

What's next?

In 2016, we will follow the WWF's "Help Shine a Light on Climate Action" theme by encouraging our Team Members to take actions to combat climate change.



We increase our understanding of sustainability through engagement with our Team Members, and partnerships with stakeholders and local communities.

Team Member education

Team Members have played a very important role in the growth of our Sands ECO360 program. We continue to look for fun ways to engage them and make them feel informed and excited about sustainability. Every year, we host three global events:

I Will if You Will – First launched by the World Wildlife Fund (WWF), I Will if You Will is our annual challenge-based platform to raise awareness about energy conservation.

World Hunger Day – This event started as part of The Hunger Project, whose mission is to end world hunger and poverty. During this event, we encourage our Team Members to minimize food waste and donate food to local charities.

Las Vegas Sands Recycles – The event is a collection of recycling, repurposing, and donation activities during the year-end holiday season.



Community outreach

Many of our Sands ECO360 initiatives benefit both the environment and our communities. For example, our donation programs support disadvantaged members of society, and help us divert products from the landfill at the same time.

Our partnership with Clean the World

One of our key partners is Clean the World, a non-profit organization that collects, repurposes and distributes hotel soap and bottled amenities as part of its sanitation program in more than 100 countries. We started our journey together in 2011 when we piloted the program with McDonald's during their annual event. With the successful implementation, the initiative was then fully rolled out at The Venetian and The Palazzo, Las Vegas, followed by Sands Bethlehem a year later.



The support Clean the World received from Las Vegas Sands has elevated our recycling, soap distribution, and hygiene education programs to heights we never dreamed of. Sands has a deep commitment to sustainability, and we are proud to help them meet their planet-saving goals.

Shawn Seipler, CEO, Clean the World



2013

Las Vegas Sands has large operations in Asia, where soap recycling was not always available. In 2013, we helped Clean the World establish its first international presence in Hong Kong and Macao; within three years, we had recycled **172,396 lb.** of soap destined for landfills in Macao.

2012

From 2012, we offered Clean the World Hygiene Kit Build to our Green Meeting clients as a community engagement option and sponsored a volunteer event at the Clean the World Las Vegas Recycling Center for IMEX America. In the following year, IMEX brought the program to the trade show floor to make it more accessible for their attendees.

2015

In 2015, the program grew into a broader initiative in collaboration with Sands Cares, our global corporate citizenship program. Sands Cares organized a hygiene kit building rally with more than 4,000 volunteers in Las Vegas, Bethlehem, Singapore and Macao who worked around the clock and across the globe to build

200,000

kits. In the same year, we also expanded the soap recycling program to Marina Bay Sands in Singapore. Now the hotel soap and amenities from all our properties get to serve their second mission, saving millions of lives around the world.



358,827 lb.

soap and amenities have been repurposed through the Clean the World program since 2011 globally





External communication

In recent years, we have made real progress with our external communications, increasing the level of transparency in our reporting to ensure that our stakeholders remain apprised of our journey. Third-party reporting schemes and standards inform our strategy and help us stay current with industry trends. We participate in the following rating systems:

GRI

Our Sands ECO360 Report follows GRI guidelines, a comprehensive sustainability reporting framework that is widely used around the world. In 2012, we became the first gaming company to have a report verified by GRI.

NEWSWEEK GREEN RANKINGS

The Newsweek Green Rankings assess the environmental performance of the largest companies in the U.S. and around the world. We started actively participating in the program in 2012 and have gradually improved our performance since then.

18th

in the U.S. and 28th in the world, our position in the Newsweek Green Rankings in 2014

DOW JONES SUSTAINABILITY INDICES

In 2015, we were recognized for the first time in the Dow Jones Sustainability Indices (DJSI) for our industry-leading corporate sustainability efforts in North America. DJSI is one of the most highly regarded sustainability indices and is based on an analysis of corporate economic, environmental and social performance.

MEMBER OF

Dow Jones Sustainability Indices

In Collaboration with RobecoSAM

CARBON EMISSIONS DISCLOSURE

We first started reporting our carbon inventory and energy management strategies in 2012 through CDP, an international not-for-profit organization providing the only global system for companies and cities to measure, disclose, manage and share vital environmental information. In 2014, we became an inaugural participant in the newly launched Hong Kong Carbon Registry emissions disclosure. In 2015, we earned a position on CDP's 2015 Climate A List, as well as on its Climate Disclosure Leadership Index (CDLI), validating our equal focus on both transparency and performance improvement.

99A

scored in the CDP disclosure and performance leadership indices [see p13] in 2015





Environmental performance

At Las Vegas Sands, we set our 2010 environmental performance as a baseline for existing properties to measure and track progress toward our targets. Because Marina Bay Sands and Sands Bethlehem were added to our resort portfolio later, we set the 2012 environmental performance at those properties as their baseline since it represents their first year of full operations.

We reduced our Scope 1 and Scope 2 emissions significantly in the past five years, including an 8.1% reduction in existing operations and an impressive 19.6% reduction in newly opened properties. Electricity continues to be Las Vegas Sands' primary focus because it represents 72.8% of total reported emissions. By implementing conservation projects we successfully decreased our consumption by 16.8% in existing operations and by 11.8% in our newly opened properties.

Notes:

Existing operations include The Venetian and The Palazzo, Sands Expo, Sands Macao, The Venetian Macao, The Plaza Macao, Sands Aviation and Cotai Jet.

Newly opened properties include Marina Bay Sands and Sands Bethlehem.

2012 was the first year of full operation for these two properties; therefore, it is their performance baseline.

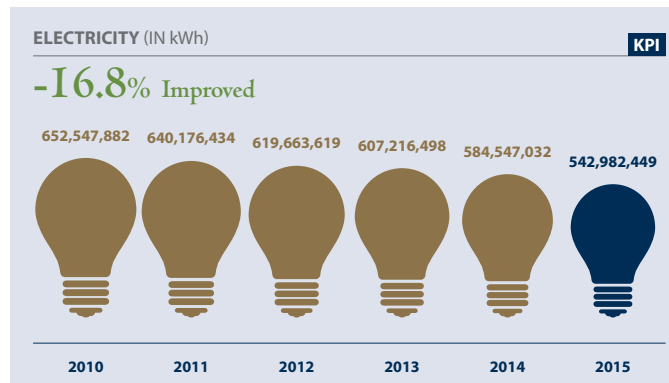
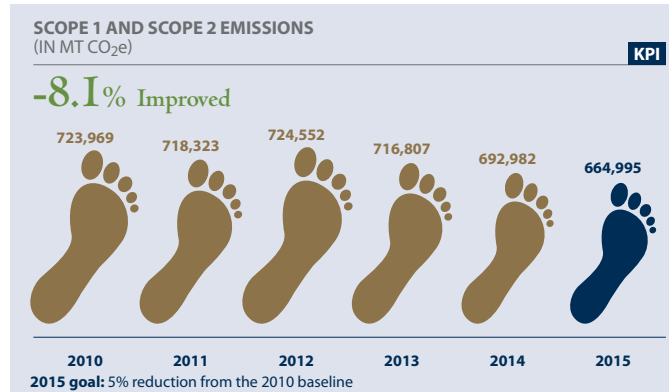
Sands Cotai Central was not yet open when we set our 2015 targets; therefore, the performance data above does not include Sands Cotai Central; however, it has made notable sustainability progress since its opening.

In 2015, we made the following adjustments for the performance data:

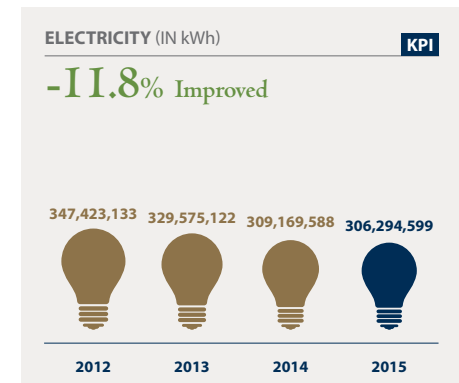
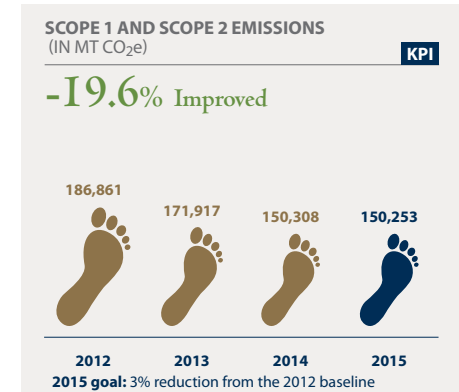
Las Vegas: we deducted natural gas credits from the bills for 2014, and it resulted in reduced actual natural gas consumption as well as overall Scope 1 emissions.

Sands Macao: we were not able to obtain 2011 waste data for Sands Macao, therefore we used 2012 data for the baseline year calculation instead.

Performance of existing operations



Performance of newly opened properties



Measuring and reporting of our environmental performance increases accountability and drives results. It helps us pro-actively manage our utility consumption, ensures disciplined execution of efficiency projects, and compels us to explore innovative solutions. In the upcoming years, we will continue to challenge ourselves to further reduce our environmental impact.

Norbert Riezler, Senior Vice President, Chief Procurement and Sustainability Officer, Las Vegas Sands Corp.

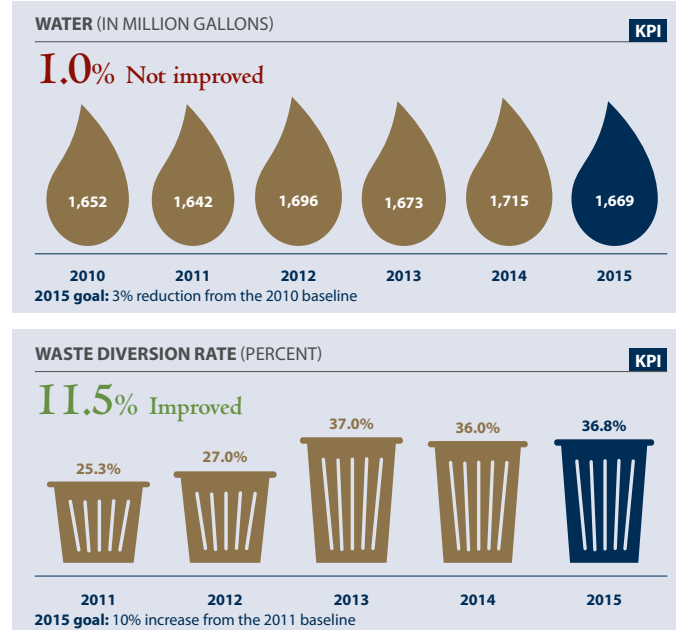




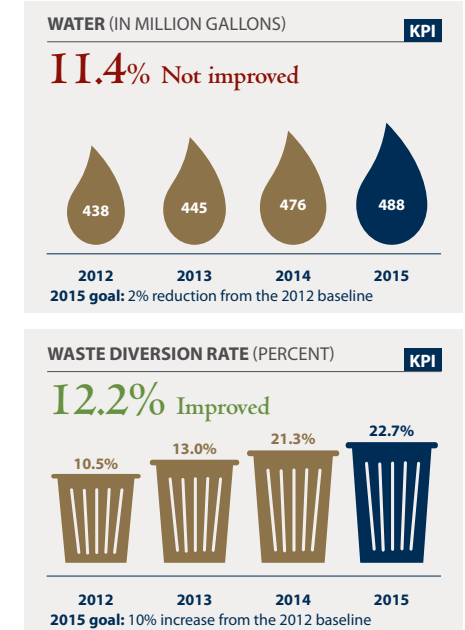
Water has remained a challenge globally. In 2015, we were able to address a number of concerns at our existing buildings, specifically in Macao. This put a stop to the increased consumption at those properties and we even saw a 2.6% year-over-year reduction when comparing with 2014 results. Reducing water consumption at newly opened properties was more difficult, partially due to the addition of new venues and growing business demand in 2015.

Finally, all of our properties have improved their recycling rates, with 11.5% and 12.2% increases at our existing buildings and newly opened properties respectively. These changes are mostly due to increased upstream recycling efforts, installation of waste digesters, and expanded Team Member participation and support.

Performance of existing operations

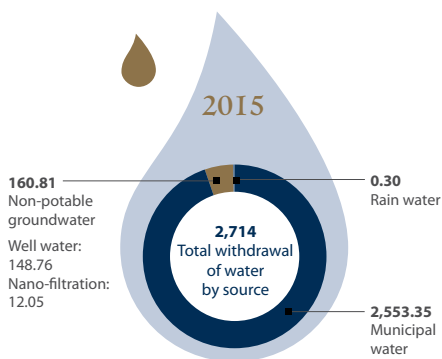


Performance of newly opened properties

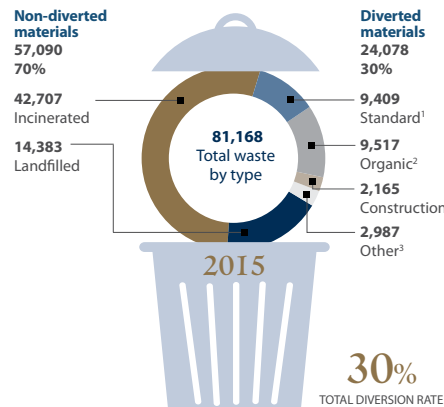


2015 companywide performance

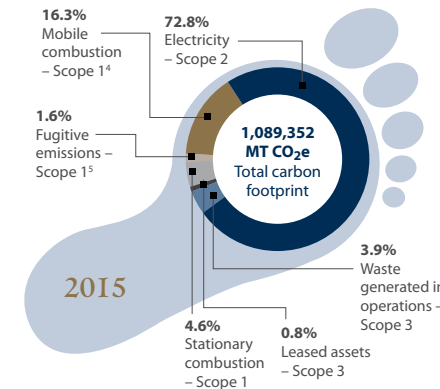
2015 TOTAL WATER WITHDRAWAL BY SOURCE (IN MILLION GALLONS) KPI



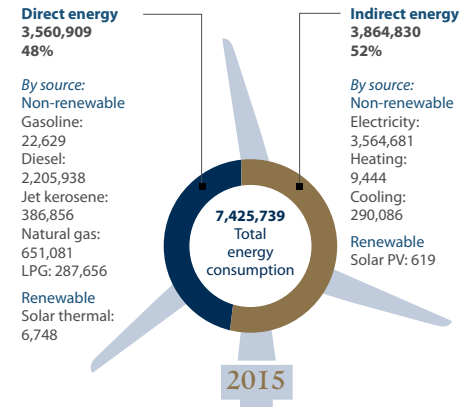
2015 DIVERTED MATERIALS (IN SHORT TONS) KPI



2015 CARBON FOOTPRINT (IN CO₂e) KPI



2015 ENERGY CONSUMPTION BY ENERGY SOURCE (IN GIGAJOULES) KPI



1. "Standard" includes: plastic, aluminum, cardboard, paper, glass and metal.
 2. "Organic" includes: food waste, horticultural waste and cooking oil.
 3. "Other" includes: recovered assets, batteries, e-waste, donations, light bulbs, paint, playing cards, soap and shampoo amenities.
 4. Includes gasoline, diesel, biodiesel, jet fuel and marine fuel.
 5. Refrigerants

We would like to thank our Team Members for being part of the Sands ECO360 journey...

- Global ●
- Las Vegas ●
- Marina Bay Sands ●
- Sands China Ltd. ●
- Bethlehem ●

From running sustainable operations to coming up with energy-saving ideas, from making green meetings possible to supporting our partners and communities, our Team Members turn our Sands ECO360 strategy into reality. As we celebrate our five-year milestone on our journey, a sincere thank you to them is in order:

Antonio Ramirez
William Palubinsky Marc Gougeon
Tim Chan Ryan Green
George Markantonis Ann Krutchik
Kent Bangell Mark Juliano Mark McWhinnie
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Dina Angelucci Helder Freitas Lisa Witherell Paul Dungo Stephanie Zhao
Marc Komatsu Madalyn Banks Ron Reese Kevin Wong Eugene Tong
Emmanuel Zoppas Alex Choi Kevin Fang Isabella Che Robert Harayda
Jim Albers Dan Johnson Tamir Shanel James Gonsalves
Anna Schmid Brian Carr Cetin Tanisman
Greg Kite Shona Ann Lowe Charlie Fisher Trevor Hammond Yokaraju Vikneswaran Jae Hong Choi
James Barlow Tina Peetris Raymond Koh Kim Grange Kandhadai Sridhar
Ciaran Carruthers Gary McCreary Mike Helbert Jesse Low Bogdan Butner Lily Chi
Mia Banks Mike Naylor Faris Alsagoff Shane Brereton Arthur McClain Kathy McCracken
Jerry Jagers Jeffrey Yau Annie Lam James Brown Kenneth Leong Michael James Payal Bipin Karnik
Mike Merlin James Stuart Dennis Dougherty Rachel Tan Alzira Lao Sim Siaw San Raymond Chung
Christopher Christie Rishi Tirupari Pranav Jampani Winnie Wong Kevin Teng
Patrick Dumont Elaine Seow Sarah Lee Tucker



Our journey would not be possible without you...

The most rewarding part of the Sands ECO360 journey is seeing the growing enthusiasm of our Team Members toward sustainability. We are very fortunate to receive ongoing support from our senior executives and Team Members who take pride in helping us advance the program. Every milestone and achievement of our journey belongs to them!

Katarina Tesarova, Vice President, Global Sustainability, Las Vegas Sands Corp.

Lisa Williamson

Chandra Allison Clara Ng

Benson Ho Mickey Trageser Timothy Hou Charles Ratnasingam Scott Donley

Mikii Abuel Jim Fezel Joe Lam Scott Larocco Tracy Stephenson

Andy Abboud Wong Kim Sung Kitty Fung Jamie Pang Jonathan Vista Josie Ho

Ian Wilson Gordon Ng Laurissa Generoso Paul Martinez Cody Hansen Stephanie Stanton

Doug Pulleyn Grant Chum John Hess Ben Leong Sebastien Silvestri

Mick Littlewood Dana Beatty Mabel Wu Margaret Walker-Shaw Meridith Beaujean

Au Seng Lye Jack Bonner Priscilla Lew Benny Zin Christian Kunze George Tanasijevich

Ailynn Seah Darcy Martinez Fran Abuisi Gary Choi Rene Brana

Steven Fernstrom Calvin Pereira Stratoe Koutsouridis Richard P. Lagniton

Rick Walter Larnme Richmond Sim Mohd Sani Bin Abdul Majid Jenna Xue

Sandra Wild Ronald Leong Shanker N.S. Simpson Lei Vic Wendell Alvarez Viernes Knut Becker Greg Dauberger

Megan Verholy Grace Tam Keith Salwoski Philip Chong Jonathan Sim Catherine Ng

Larry Wheeler Kim Cooper Shane Yi Xie William Lim Jose Borges Rodrigues

Ray Matyas Jenny Yu-Mattson Tim Figura Craig Dobson Wendy Lu Janet Lim

Nina Khatami Joyce Siew Terry Salaices Peter Speight Tan, Rachel Siew Fong Tony Lam Patrick Staruch

Ed Chuchla Syed Mubarak Georgina Moreno Nicholas Oyola Kristin McLarty Kevin Sterling

Peter Marr Chef Tan Yee Hoo Fabrice Manual De Cotte

Bede Barry Adam Henricksen Kirsten Dimond Michael Huettner Jake Loke Kum Cheong

Chan Yit Foon Gene Capuano Max Tappeiner

...and many, many more!

Our sustainability journey continues...

...as we embark for new horizons with Sands ECO360.



Please let us know what you think about our Sands ECO360 report at: sandseco360@sands.com

The electronic version of this report can be found at: sands.com/sands-eco-360/our-strategy.html