

# ENVIRONMENTAL PERFORMANCE

As part of the 2017 reporting initiative, SL Green evaluates its environmental performance metrics for greenhouse gas emissions and energy, water, and waste consumption. These metrics utilize assessment standards consistent with industry best practices and incorporate information from all SL Green owned and directly operated buildings within the New York City metro area. Greenhouse gas emissions have been calculated per World Resources Institute's (WRI) GHG Protocol.

A total of 42 buildings, representing 21,492,358 square feet, are included in the below portfolio analysis. In last year's report, a total of 50 buildings, representing 22,809,396 square feet, were included in the portfolio analysis. Due to redevelopment and asset sales, buildings (115-117 Stevens, 125 Chubb Ave, 680 Washington, 750 Washington, 500 Putnam, 520 White Plains, 600 Lexington, 609 Fifth, 110 Greene St) were excluded from the reporting scope. The environmental performance (energy, water, waste and emissions) of the Portfolio for 2017 has been compared with 2016. The methodologies were very similar between these two years in terms of data collection but there were a few differences with the emissions calculations. The first was the emissions factor for steam which was updated. In addition, as noted previously, the refrigerant emissions were calculated using actual leakage or a minimum of 0.5% per LEED O+M requirements.

## Energy Consumption

The SL Green portfolio has an energy use intensity of 87.88 kBtu/sf between January 1, 2017 and December 31, 2017 as opposed to 93.92 kBtu/sf from 2016. SL Green's portfolio decreased overall energy consumption from 2016 to 2017 by 74,277.0 MWh. The energy consumed by SL Green properties' shared landlord services between January 1, 2016 and December 31, 2016 was:

Fuels (natural gas, fuel oil)	<b>31,557</b> MWh
District Services (steam)	<b>188,648</b> MWh
Electricity	<b>163,291</b> MWh

The energy consumed by SL Green tenants between January 1, 2017 and December 31, 2017 was:

Fuels (natural gas, fuel oil)	<b>0</b> MWh
District Services (steam)	<b>2,797</b> MWh
Electricity	<b>170,087</b> MWh

Renewable Energy Produced On Site	<b>0</b> MWh
Renewable Energy Purchased Off Site	<b>36,825</b> MWh

## GHG Emissions

The daily business operations of organizations in the real estate sector generate direct and indirect GHG emissions. These greenhouse gases are widely acknowledged contributors to climate change. To capture SL Green's carbon footprint from January 1, 2017 until December 31, 2017, the GHG Protocol's GHG calculation methodology was utilized. This report covers SL Green's 2017 location-based emissions, and does not cover market-based emissions.

The Scope 1, Scope 2, and Scope 3 GHG Emissions generated by SL Green properties between January 1, 2017 and December 31, 2017 were:

Scope 1 Emissions (Base building direct energy)	<b>6,259</b> mtCO <sub>2</sub> e
Scope 2 Emissions (Base building indirect energy)	<b>88,709</b> mtCO <sub>2</sub> e
Scope 3 Emissions (Tenant energy use)	<b>49,573</b> mtCO <sub>2</sub> e
Total Combined Scope 1, 2, and 3 Emissions	<b>144,543</b> mtCO <sub>2</sub> e
GHG Emissions from Refrigerants (Included in Scope 1)	<b>518</b> mtCO <sub>2</sub> e
Greenhouse Gas Emissions Intensity:	<b>0.0068</b> mtCO <sub>2</sub> e / square foot

*\*\*Correction: An earlier version of this document overstated the Scope 1 Refrigerant Emissions due to calculation inconsistencies with the GHG Protocol. The Scope 1 Refrigerant values have been corrected and all other metrics have been updated in alignment*

## Water Conservation

The total water consumed by SL Green properties between January 1, 2017 and December 31, 2017 was:

Total Water Consumption	<b>1,621,914</b> M <sup>3</sup>
Water Use Intensity	<b>0.0755</b> M <sup>3</sup> / square foot

## Waste Management

The SL Green portfolio has a waste use intensity for ongoing waste of 0.000523 short tons of total non-hazardous waste per square foot, and an e-waste intensity of 0.0000234 short tons of e-waste per square foot. Hazardous is composed of only e-waste. The total waste\* from SL Green properties by type between January 1, 2017 and December 31, 2017 were:

Total Weight of Hazardous Waste	<b>50</b> SHORT TONS
Total Weight of Landfilled Non-Hazardous Waste	<b>6,809</b> SHORT TONS
Total Weight of Recycled Waste	<b>3,863</b> SHORT TONS

\* Waste values for portfolio based on diversion rates determined through waste vendor reports.

Due to changes in methodology and NYC commercial waste regulation, the 2017 calendar year metrics should not be compared directly with metrics from previous years. SL Green continues to put the utmost value on the accurate reporting of our data. As such, we are currently working with our waste and recycling vendors as well as outside consultants to implement procedures and best practices that allow us to represent our diversion data in the most accurate manner possible.