



McArthurGlen Group Greenprint Performance Report™

VOLUME 2, 2010¹



**GREENPRINT
FOUNDATION**

REDUCING CARBON. BUILDING VALUE.



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REDUCING CARBON. BUILDING VALUE.

Greenprint Foundation is a worldwide alliance of real estate owners, investors, financial institutions and other industry stakeholders committed to reducing carbon emissions across the global property industry. Greenprint Foundation is a catalyst for change, taking meaningful, immediate and measurable actions to generate solutions that improve energy efficiency while demonstrating the correlation with increased property values. Greenprint focuses on reducing the carbon footprint of the built environment, which currently represents one-third of all carbon emissions. Greenprint works to achieve its carbon reduction goals through education and action.

Greenprint's mission is to lead the global real estate community toward value-enhancing carbon reduction strategies that support the Intergovernmental Panel on Climate Change (IPCC) goals for global greenhouse gas stabilization by 2030.²

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Executive Summary

The results of the Greenprint Performance Report, Volume 2 are based on 16 property submissions representing 0.6 million square meters across 5 countries, which is a 100% increase in number of submitted properties from Volume 1.

All 16 properties submitted are used to provide total carbon emissions and other portfolio-wide metrics. Seven (7) of the 16 properties submitted by McArthurGlen included historical data, which comprises the Like for Like portfolio. This portfolio is used to provide year over year performance. Castel Romano provided refrigerant data in 2009, but not in 2010. Therefore, this property is not included in the Like for Like dataset.

Highlights for McArthurGlen Group Greenprint Performance Report, Volume 2

- **Overall energy consumption of the McArthurGlen Group portfolio decreased 1.1% from 2009 on a Like for Like portfolio basis.** The decrease is attributable to increased efficiency at several of McArthurGlen's properties, including Bridgend, Cheshire Oaks, La Reggia Designer Outlet and Serravalle.
- **Greenhouse gas emissions increased 19.6% from 2009 to 2010 on a Like for Like portfolio basis.** Emissions decreased at most of McArthurGlen's properties from 2009 to 2010. A majority of McArthurGlen's increasing emissions are from natural gas due to McArthurGlen offsetting most electricity-related emissions with renewable electricity purchases. Swindon Designer Outlet reported a large increase in natural gas from 2009 to 2010, which is a primary factor in the overall increase in emissions. La Reggia also decreased onsite renewable energy consumption from 16% of total energy consumption in 2009 to 3% in 2010, which offset less emissions in 2010.
- **McArthurGlen is one of the leading Greenprint members in the implementation of onsite renewable energy, and the purchase of certified renewable electricity.** Onsite renewable energy consumption decreased at La Reggia Designer Outlet from 16% of the property's total energy to 3% in 2010. The purchase of certified renewable electricity at other McArthurGlen properties remained the same from 2009 to 2010.

A Guide to the Greenprint Performance Report

Greenprint sets the global standard for a common system to measure and benchmark energy and emissions across the global property industry. This standard is transparent and accessible, and the data in the Greenprint Performance Report represents the most comprehensive voluntary disclosure of energy and emissions performance by commercial property owners.

- Standardized definitions and data collection methodology allow for direct comparisons between properties and portfolios, and the creation of robust energy and emissions intensities.
- Year over year progress from 2009 to 2010 is provided through a Like for Like analysis. This is a direct comparison of the properties' current year data against the same properties' historical data. Properties without historical data are excluded in the Like for Like portfolio, but are included in Current Year snapshots.
- Normalized indicators are used in many instances in order for buildings of different sizes to be compared, and to account for changes in portfolio composition so that trends can be assessed over the longer term.
- Energy is referred to as being obtained by the landlord, or tenant, when analyzing the landlord and tenant metering arrangements in Appendix C. Although a majority of energy is obtained by purchasing from a power company, energy may also be obtained through onsite generation.
- The complete methodology is provided throughout this report, including emission boundaries and calculations in line with GHG Protocol, emission factors provided by the Australian NGER, IEA, UK DEFRA, the US EPA and quality control processes in line with ISO 14064. A third-party audit of this report will be publicly available in January 2012.

2010 HIGHLIGHTS

ENERGY

-1.1% McArthurGlen Group
-0.7% Greenprint
Year over Year – Like for Like

CARBON

+19.6% McArthurGlen Group
-0.7% Greenprint
Year over Year – Like for Like

OCCUPANCY

+1.6% McArthurGlen Group
+0.5% Greenprint
Year over Year – Like for Like

NUMBER OF PROPERTIES

+100% McArthurGlen Group
+170% Greenprint
Year over Year - Absolute

NUMBER OF COUNTRIES

+150% McArthurGlen Group
+22% Greenprint
Year over Year – Absolute

1 McArthurGlen Group Portfolio Overview

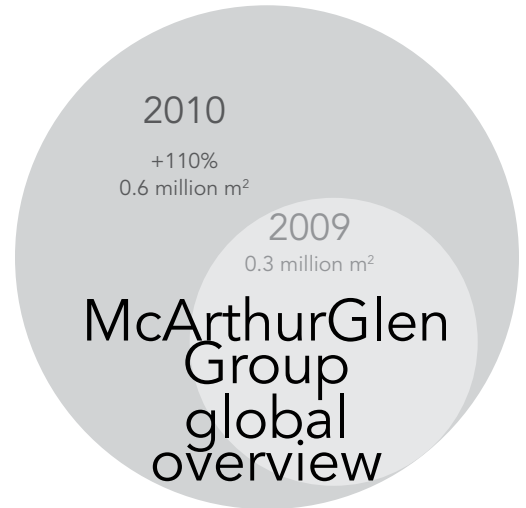
Distribution by Geography

YEAR OVER YEAR – ABSOLUTE

The McArthurGlen Group's portfolio spans Europe, with the largest number of assets located in the United Kingdom, followed by Italy and Austria.

Greenprint members have self-selected which assets to submit to the Performance Report based upon:

- Data Availability³
- Geographic Distribution
- Managerial Control



MCARTHURGLEN GROUP

AMERICAS

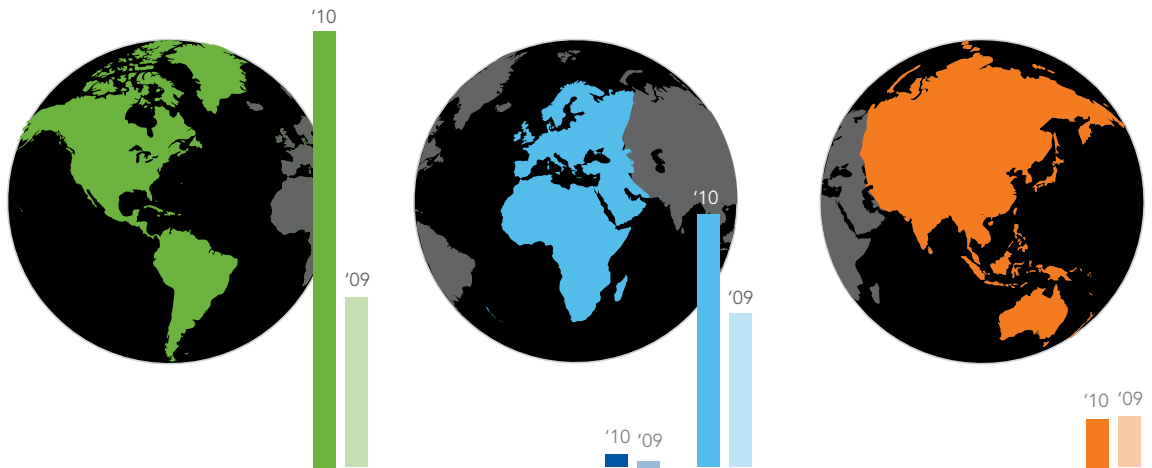
0 assets, 0 countries
0 million m² (0 MSF)

EMEA

16 assets, 5 countries
0.56 million m² (6.1 MSF)
+110%

ASIA PACIFIC

0 assets, 0 countries
0 million m² (0 MSF)



GREENPRINT

AMERICAS

892 assets, 6 countries
19 million m² (200 MSF)
+152%

EMEA

621 assets, 23 countries
11 million m² (116 MSF)
+60%

ASIA PACIFIC

110 assets, 15 countries
2.1 million m² (22 MSF)
-6%

By number of properties, McArthurGlen Group's portfolio increased 110%. The number of countries represented increased by 150% for a total of 5.

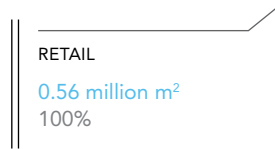
Distribution by Property Type

YEAR OVER YEAR – ABSOLUTE

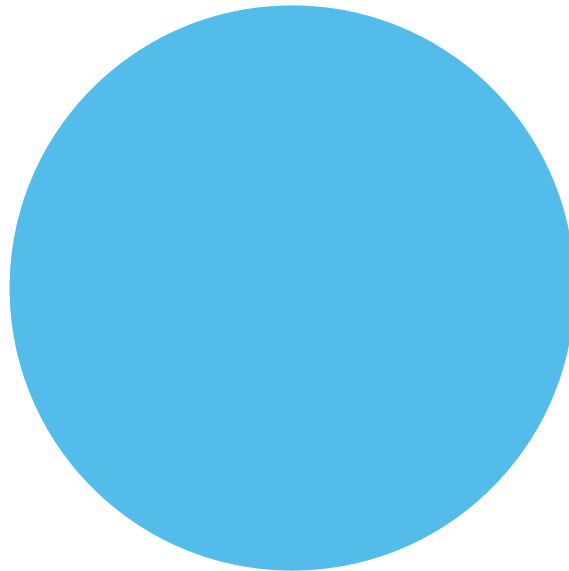
The McArthurGlen Group portfolio includes some of the premier retail assets in the Greenprint portfolio.

- Office
- Retail
- Industrial
- Multifamily
- Hotel

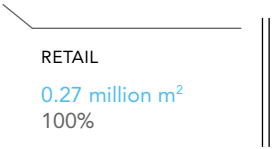
MCARTHURGLEN GROUP 2010



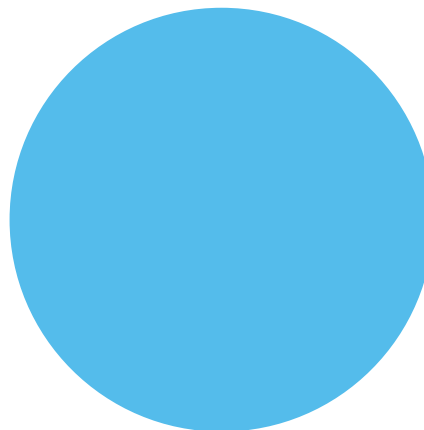
2010



MCARTHURGLEN GROUP 2009



2009

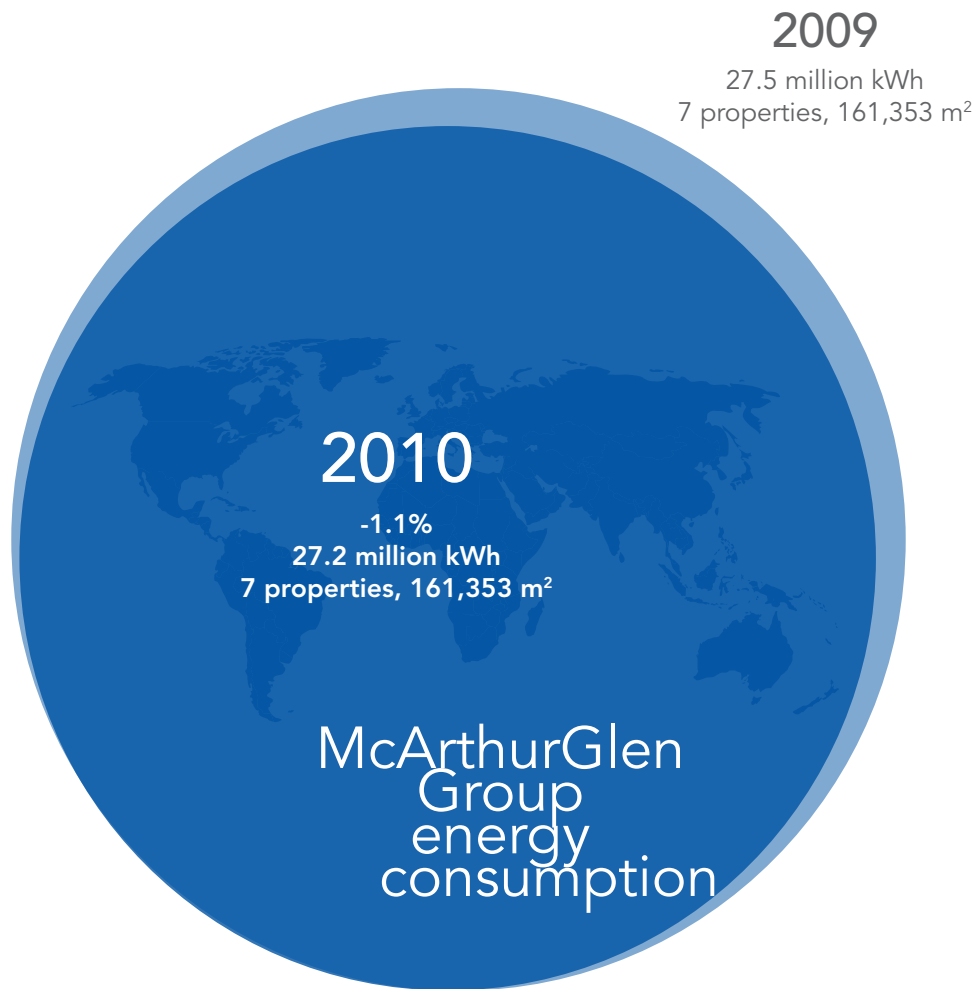


2 McArthurGlen Group Energy Profile

Energy Consumption

YEAR OVER YEAR – LIKE FOR LIKE

Overall energy consumption for the McArthurGlen Group decreased 1.1% on a Like for Like portfolio basis. The chart below shows the Like for Like portfolio, which includes properties with 2010 and 2009 data, and consists of 7 properties. Although Castel Romano provided both 2010 and 2009 data, the property did not provide refrigerant information in 2010, which would skew emissions performance. Therefore, Castel Romano is not included in the Like for Like dataset.



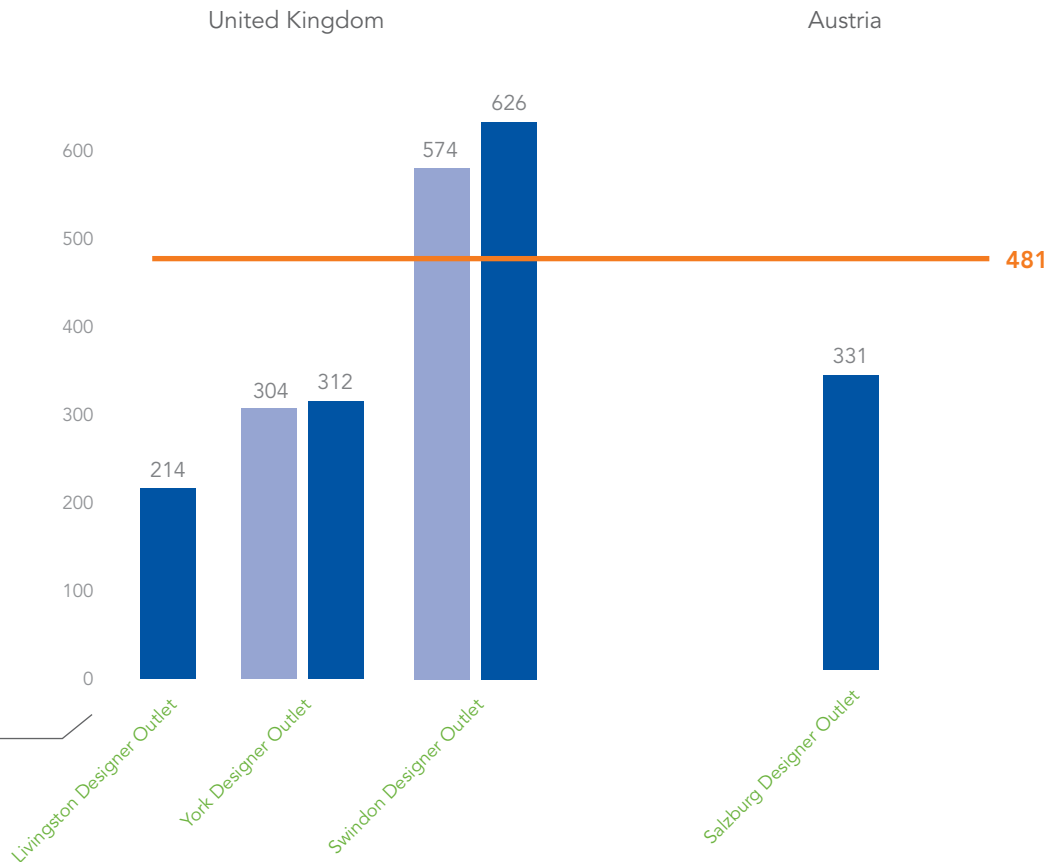
McArthurGlen Group portfolio's energy consumption decreased 1.1% on a Like for Like portfolio basis.

Energy Use Intensity of McArthurGlen Group Enclosed Retail Properties

COMPARED TO GREENPRINT MEDIAN (BASED ON 79 PROPERTIES) OF ENCLOSED RETAIL PROPERTIES

All properties are relatively new, with Swindon having the oldest renovation in 1999. Swindon also has one of the highest occupancy rates at 95%, and one of the most compressed tenant/floor area ratios, with an average of 221 square meters per tenant. The large increase in energy consumption, particularly natural gas, is the primary reason for the increase in portfolio-wide emissions.

- 2010
- 2009
- 2010 Greenprint Median

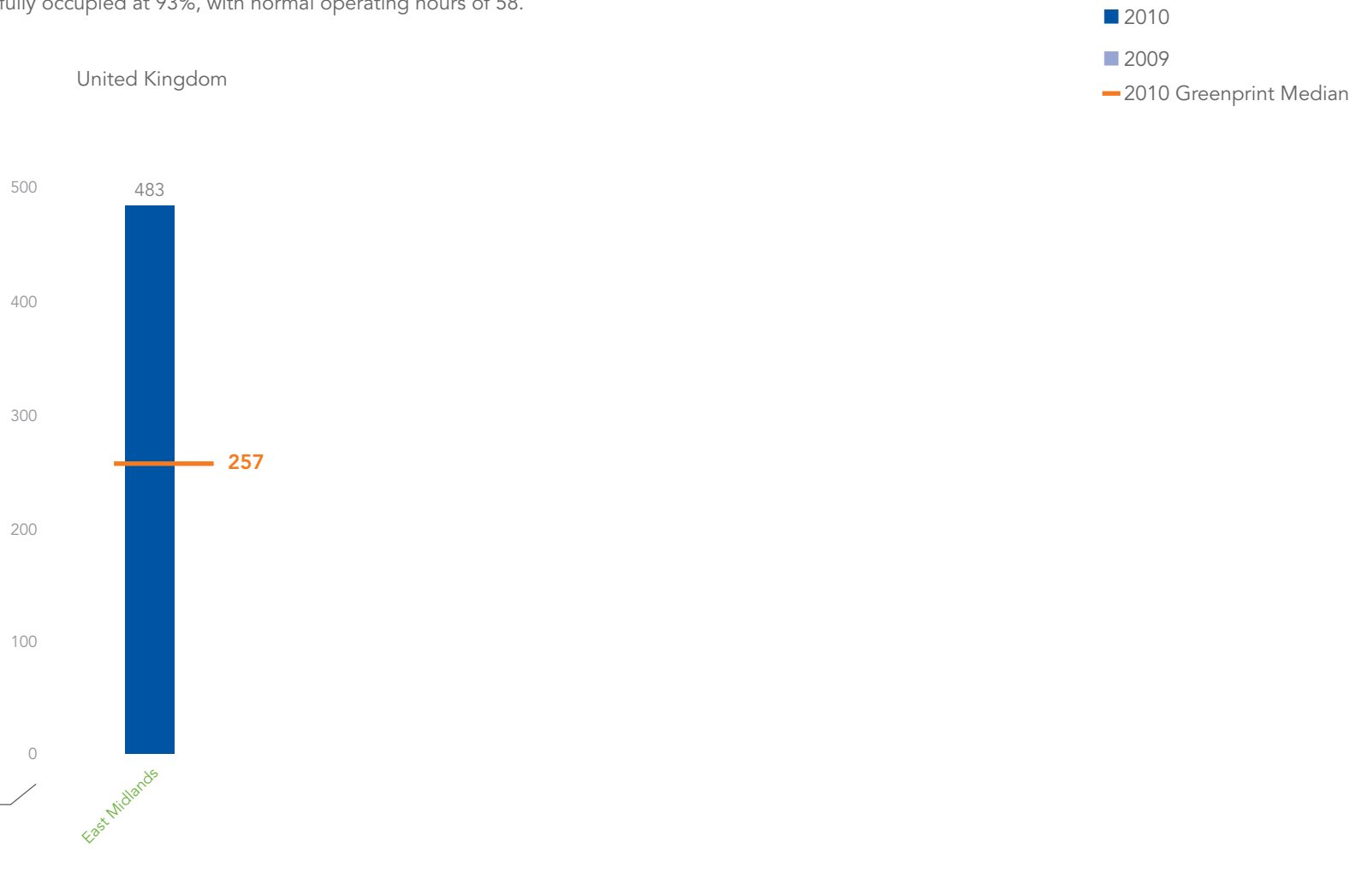


ENERGY INTENSITY
annual kWh / m²
(rentable area)

Energy Use Intensity of McArthurGlen Group Unenclosed Retail Properties

COMPARED TO GREENPRINT MEDIAN (BASED ON 12 PROPERTIES) OF UNENCLOSED RETAIL PROPERTIES

East Midlands is nearly fully occupied at 93%, with normal operating hours of 58.



Energy Use of McArthurGlen Group Properties

The table below shows the year-over-year change in energy consumption for McArthurGlen properties. Only 5 properties were able to be benchmarked against the Greenprint median, including East Midlands, Livingston, Salzburg, Swindon and York.

Properties were unable to be benchmarked because these properties provided common area electricity and whole building natural gas. These two indicators cannot be combined with a common floor area denominator and, thus the energy intensity on a floor area basis cannot be provided.

There is an opportunity to look at this issue in more depth, and create unique intensity indicators for the retail asset class in the Third Volume of the Report.

| Property | Retail Sub-Type | 2010 Energy (kWh) | 2009 Energy (kWh) | % Change of Energy | 2010 Rentable Floor Area (m ²) | 2010 Weekly Operating Hours |
|----------------------------------|-----------------|-------------------|-------------------|--------------------|--|-----------------------------|
| Ashford Designer Outlet | Unenclosed | | 2,071,794 | | 16,970 | 66 |
| Barberino Designer Outlet | Unenclosed | 883,800 | 872,464 | (1.3%) | 21,000 | 62 |
| Berlin Designer Outlet | Unenclosed | | 805,134 | | 22,615 | 56 |
| Bridgend Designer Outlet | Unenclosed | 1,254,439 | 1,098,364 | (12.4%) | 19,189 | 127 |
| Castel Romano Designer Outlet | Unenclosed | 1,108,972 | 1,091,919 | (1.5%) | 23,846 | 73 |
| Cheshire Oaks Designer Outlet | Unenclosed | 2,137,538 | 1,663,447 | (22.2%) | 31,354 | 66 |
| East Midlands | Unenclosed | | 7,226,696 | | 14,974 | 58 |
| La Reggia Designer Outlet Naples | Unenclosed | 1,644,900 | 1,184,517 | (28.0%) | 21,800 | 84 |
| Livingston Designer Outlet | Enclosed | | 4,638,563 | | 24,570 | 63 |
| Parndorf Designer Outlet | Unenclosed | | 2,386,192 | | 36,614 | 57 |
| Roermond Designer Outlet | Unenclosed | | 662,729 | | 28,000 | 46 |
| Salzburg Designer Outlet | Enclosed | | 7,461,979 | | 30,718 | 57 |
| Serravalle Designer Outlet | Unenclosed | 7,815,760 | 6,843,376 | (12.4%) | 38,156 | 70 |
| Swindon Designer Outlet | Enclosed | 11,427,334 | 12,452,176 | 9.0% | 19,893 | 66 |
| Veneto Designer Outlet | Unenclosed | | 682,575 | | 21,913 | 60 |
| York Designer Outlet | Enclosed | 3,023,598 | 3,107,188 | 2.8% | 22,554 | 57 |

3 Greenhouse Gas Emissions (GHGs)

Methodology

The Greenprint Performance Report separates Greenhouse Gas Emissions (GHG) into three categories – Scopes 1, 2 and 3. This reporting system is aligned with the World Resources Institute/WBCSD's Greenhouse Gas Protocol. Categorizing emissions by Scope enables separate accounting of GHG sources by different related entities, such as landlord and tenants, and also increases transparency.

Organizational Boundary: Greenprint Foundation has chosen to use the Operational Control approach, and defines areas under control to include all areas where Greenprint members (landlord or tenant) have full authority to introduce and implement operating policies at the building.

Scope 1 primarily covers emissions generated onsite. It includes emissions from the onsite combustion of fuels to generate electricity, heat or steam within Greenprint members' buildings. Fugitive emissions created by the operation of buildings, such as the use of refrigeration and air conditioning equipment, are also included. Scope 1 does not include energy generated offsite, building construction or waste disposal.

Scope 1 includes emissions from:

- Onsite combustion of fuels for electricity, heat or steam
- Fugitive emissions from refrigeration and air conditioning equipment

Scope 2 covers emissions from energy produced offsite, but consumed onsite. These emissions are attributed to the organization paying the energy bill, unless the energy is passed through on a submetered basis to another organization. Emissions from energy that is submetered by landlords to their tenants falls into Scope 3.

Scope 2 includes indirect emissions associated with the consumption of purchased or acquired electricity and thermal energy, such as district heating or cooling. These emissions are a consequence of energy consumption that takes place within the building's boundaries, but are generated at sources controlled by another entity. Scope 2 does not include emissions from transport, building construction, waste disposal, energy generated onsite or fugitive emissions.

Scope 2 includes emissions from:

- Electricity and imported thermal energy

Scope 3 covers emissions from energy consumed onsite that does not fall into Scope 1 or 2. Within the Greenprint Performance Report, Scope 3 does not include emissions from transport, building construction, or waste.

Scope 3 includes emissions from:

- Energy consumed onsite that is attributable to tenants through direct utility meters or landlord-provided submeters.
- Occupier members' energy that is attributable to an occupier by the landlord on a prorated basis (floor area).

Greenhouse gas emissions are calculated using the following formula:

$$\text{Energy [kWh]} \times \text{Emissions Factor} = \text{Greenhouse Gas Emissions}$$

Emissions coefficients are used to calculate the amount of generated CO₂e. Developing and applying accurate emissions' coefficients is critical to reliable GHG emissions reporting. For additional information regarding emissions coefficients refer to Appendix B.

Absolute Emissions*

CURRENT YEAR – ABSOLUTE

The chart below shows the absolute greenhouse gas emissions by Scope, in line with Greenhouse Gas Protocol. Scope 3 emissions for landlord members are associated with directly metered or submetered energy to tenants. Scope 3 emissions for occupier members are associated with energy provided by the landlord on a prorated basis (floor area).

| | Thousand metric tonnes of CO ₂ e / year in 2010 | | | | |
|---|--|---------|--------------|---------|--------------|
| | Scope 1 | Scope 2 | Scopes 1+2 | Scope 3 | Scopes 1+2+3 |
| MCARTHURGLEN GROUP 7 properties | 4.6 | 0.9 | 5.5 | 1.0 | 6.5 |
| TOTAL GREENPRINT PORTFOLIO 1,623 properties | 194 | 1,567 | 1,761 | 376 | 2,137 |

* These are absolute emissions, without adjustments nor normalisations.

Emissions

YEAR OVER YEAR – LIKE FOR LIKE

The table below shows the change in absolute emissions by property type from 2009 to 2010 on a Like for Like basis for McArthurGlen Group's portfolio and Greenprint's portfolio.

| Thousand Metric Tonnes CO ₂ / year Like for Like Portfolio Over Last Two Years | | | |
|--|------|------|--------|
| | 2010 | 2009 | Change |
| McArthurGlen Group Retail Portfolio (7 properties) | 4.8 | 4.0 | 19.6% |
| Greenprint Retail Portfolio (91 properties) | 161 | 178 | (9.0%) |

The table below shows the change in absolute emissions by anonymous members from 2009 to 2010 on Greenprint's Like for Like portfolio basis. Greenprint occupier members' portfolios change on an annual basis as leases are consolidated and expanded. The increase in emissions is primarily due to the restatement of energy consumption at Swindon Designer Outlet.

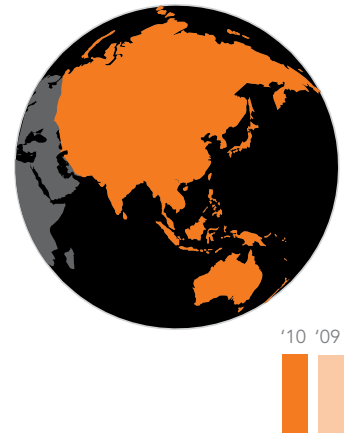
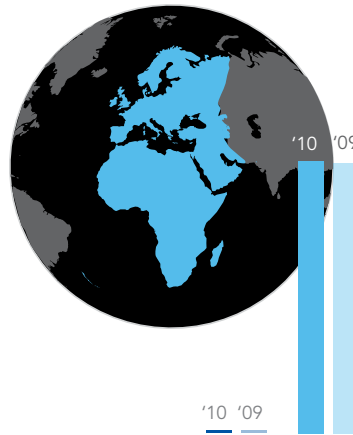
| Thousand Metric Tonnes CO ₂ / year Like for Like Portfolios Over Last Two Years | | | |
|---|------------|------------|-------------|
| Member | 2010 | 2009 | Change |
| O | 97 | 115 | (15.2%) |
| M | 79 | 91 | (12.7%) |
| A | 67 | 71 | (5.3%) |
| H | 36 | 38 | (5.0%) |
| C | 150 | 157 | (4.3%) |
| G | 198 | 204 | (3.2%) |
| D | 98 | 100 | (2.7%) |
| P | 181 | 184 | (1.8%) |
| R | 127 | 126 | 0.8% |
| B | 75 | 74 | 1.9% |
| J | 25 | 25 | 2.9% |
| Q | 250 | 240 | 3.9% |
| L | 18 | 17 | 4.6% |
| I | 50 | 44 | 13.9% |
| MCARTHURGLEN GROUP | 4.8 | 4.0 | 19.6 |
| N | 25 | 21 | 21.1% |
| F | 84 | 65 | 30.7% |
| Greenprint Total | 1,562 | 1,573 | (0.7%) |

Emissions by Global Region

YEAR OVER YEAR – LIKE FOR LIKE

This map illustrates the change in emissions (Scopes 1, 2 and 3) from 2009 to 2010 for the Like for Like portfolio for each global region.

- McArthurGlen Group
- Greenprint Americas
- Greenprint EMEA
- Greenprint Asia Pacific



AMERICAS

0 assets, 0 million m²
2010: 0 tonnes CO₂e
2009: 0 tonnes CO₂e

402 assets, 12 million m²
2010: 909 tonnes CO₂e -1.5% decrease
2009: 923 tonnes CO₂e

EMEA

7 assets, 0.2 million m²
2010: 4.8 tonnes CO₂e +19.6% increase
2009: 4.0 tonnes CO₂e

401 assets, 7.8 million m²
2010: 507 tonnes CO₂e +0.4% increase
2009: 504 tonnes CO₂e

ASIA PACIFIC

0 assets, 0 million m²
2010: 0 tonnes CO₂e
2009: 0 tonnes CO₂e

80 assets, 1.9 million m²
2010: 147 tonnes CO₂e +0.9% increase
2009: 145 tonnes CO₂e

*CO₂e measured in thousand metric tonnes




Emission Equivalencies By Global Region

YEAR OVER YEAR – LIKE FOR LIKE

The chart below provides context to the change in the McArthurGlen Group's portfolio's emissions from 2009 to 2010 on a Like for Like portfolio basis. Properties consuming the same amount of energy can emit different amounts of CO₂e for several reasons, including:

- **Government Approaches:** Policies and incentives to decarbonise the power supply vary. For example, combined heat and power (CHP) options are widely available in Germany due to government support and three quarters of French electricity is now produced by low carbon nuclear plants.
- **Geographic Location:** The viability and utilization of onsite renewable energy technologies varies by location according to natural factors, such as water availability and sunlight intensity.

McArthurGlen Group Emissions by Global Region Comparison⁴

| | Americas | | EMEA | | Asia Pacific | |
|--|----------|------|---------|-----------|--------------|------|
| | 2010 | 2009 | 2010 | 2009 | 2010 | 2009 |
| Number of properties | N/A | N/A | 7 | 7 | N/A | N/A |
| Floor Area (million m ²) | N/A | N/A | 0.2 | 0.2 | N/A | N/A |
| CO ₂ e emissions (Thousand metric tonnes) (Scopes 1, 2 and 3) | N/A | N/A | 4.8 | 4.0 ↑ | N/A | N/A |
|  Barrels of oil equivalent to amount of CO ₂ e emissions | N/A | N/A | 11,163 | 9,302 ↑ | N/A | N/A |
|  Cars on the road in a year equivalent to amount of CO ₂ e emissions | N/A | N/A | 941 | 784 ↑ | N/A | N/A |
|  Number of trees needed to sequester the equivalent amount of CO ₂ e emissions | N/A | N/A | 123,077 | 102,564 ↑ | N/A | N/A |

Emissions Averted Due to Renewable Energy

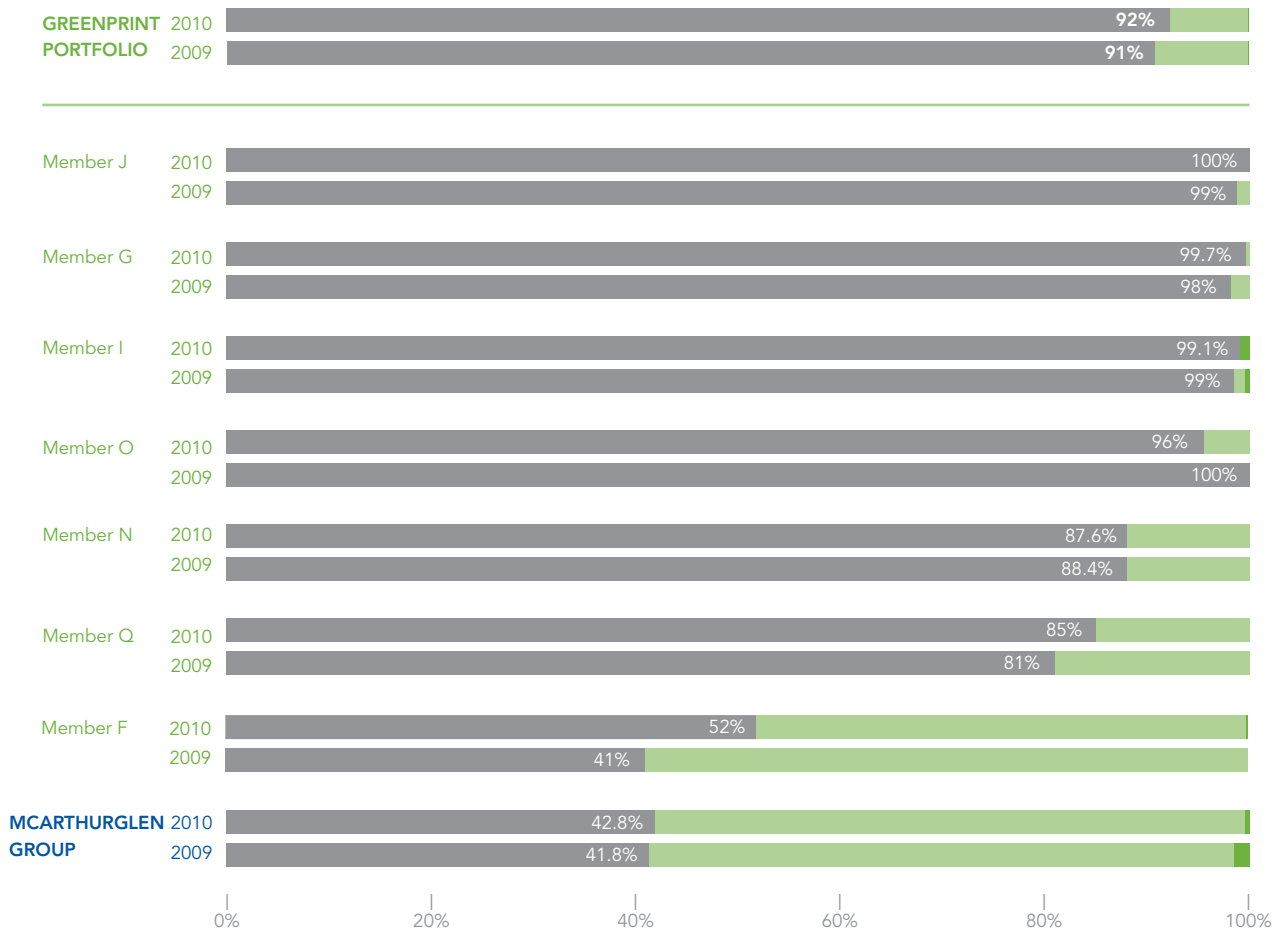
YEAR OVER YEAR – LIKE FOR LIKE

Greenprint members are committed to increasing the use of onsite renewable energy, such as rooftop photovoltaic panels, as well as the procurement of renewable energy from power suppliers. The chart below presents greenhouse gas emissions averted as a percentage of total emissions emitted.

McArthurGlen Group is one of the largest consumers of renewable energy within Greenprint. Onsite renewable electricity decreased due to less demand at La Reggia Designer Outlet. This contributed to the overall increase of McArthurGlen's emissions.

| MCARTHURGLEN GROUP | 2010 | 2009 |
|---|-------|-------|
| CO ₂ e EMITTED from non-renewable energy sources | 42.8% | 41.8% |
| CO ₂ e AVERTED as imported renewable electricity | 57.1% | 57.1% |
| CO ₂ e AVERTED as onsite renewable electricity | 0.1% | 1.1% |

- CO₂e EMITTED from non-renewable energy sources
- CO₂e AVERTED as imported renewable electricity
- CO₂e AVERTED as onsite renewable electricity



PERCENTAGE

of CO₂e/
2010 compared to 2009

Emissions Profile by Member Portfolio

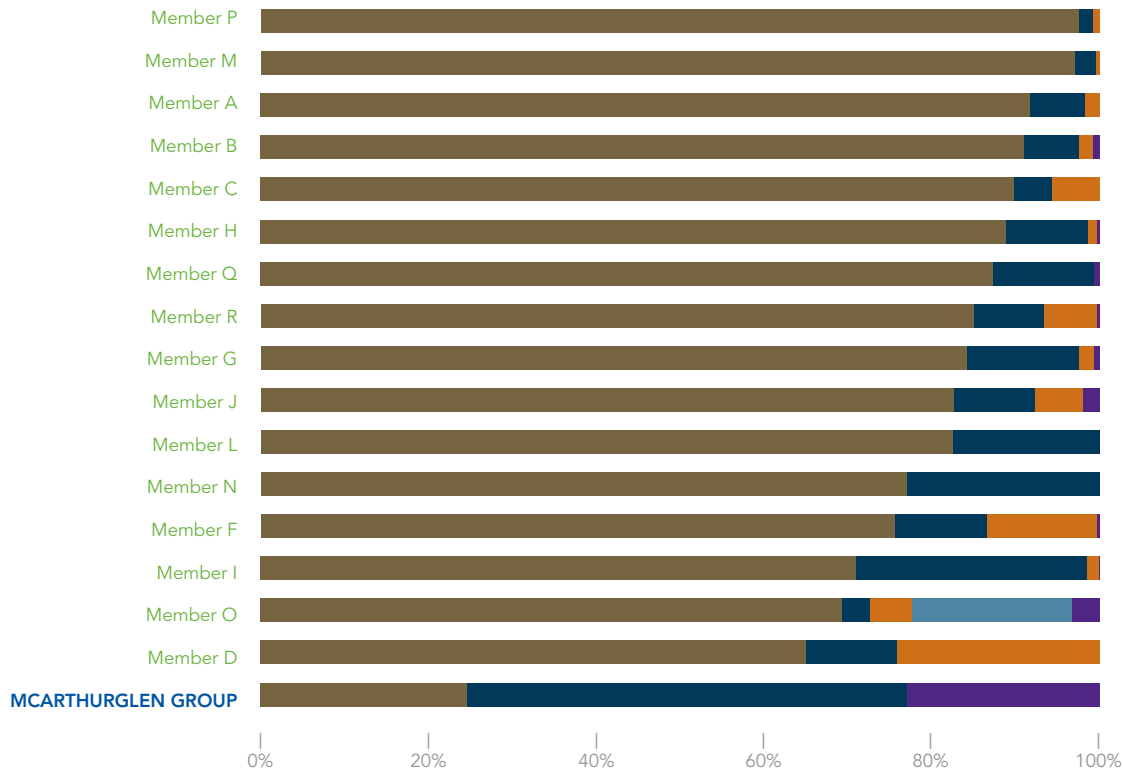
CURRENT YEAR – ABSOLUTE

The chart below shows each Greenprint members’ emissions by source of energy for the Current Year. The members are sorted by emissions attributable to the purchase of electricity. McArthurGlen’s primary source of electricity is renewable energy consumption, which is the reason for the low proportion of electricity to gas in the chart below.

Greenprint members’ portfolio greenhouse gas emissions (CO₂e) vary due to:

- Geographic distribution of individual portfolios
- Regional policies and incentives
- Property type allocation
- Corporate sustainability policies

| MCARTHURGLEN GROUP | | 2010 |
|--------------------|---|------|
| ■ | CO ₂ e EMITTED by standard grid electricity (i.e. non-certified renewable) | 14% |
| ■ | CO ₂ e EMITTED burning imported fossil fuels | 59% |
| ■ | CO ₂ e EMITTED by imported thermal energies | 0% |
| ■ | CO ₂ e EMITTED running onsite CHP (including Scope 3 exported electricity) | 0% |
| ■ | CO ₂ e EMITTED from fugitive emissions (refrigerants) | 27% |



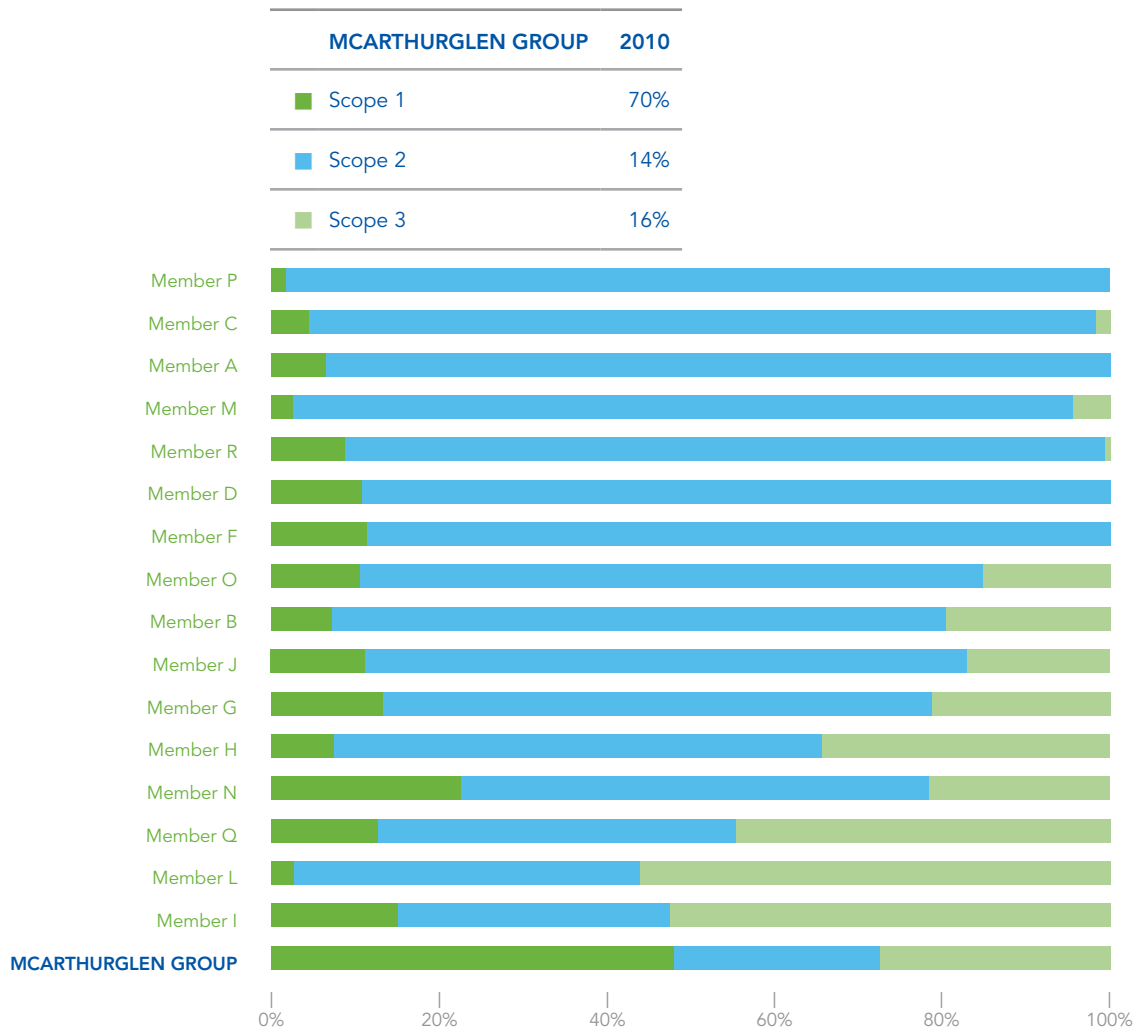
PERCENTAGE
of CO₂e
2010

Emissions of Member Portfolio by Scope

CURRENT YEAR – ABSOLUTE

The Greenprint Performance Report separates Greenhouse Gas Emissions (GHG) into three categories – Scopes 1, 2 and 3. Categorizing emissions by Scope enables separate accounting of GHG sources by different related entities, such as landlord and tenants, increases transparency of operational control, and prevents double counting of emissions between organizations.

A large proportion of McArthurGlen Group’s emissions is due to the combustion of natural gas, a Scope 1 emission.



PERCENTAGE

of CO₂e
2010

Provided by the World Resources Institute and the World Business Council for Sustainable Development, the Greenhouse Gas Protocol is an international accounting tool to quantify and manage greenhouse gas emissions. It provides the framework for global emission standards and programs.

Emissions by Property

The table below shows emissions and energy for each of the properties submitted by McArthurGlen. The Like for Like set of properties includes submissions with both 2010 and 2009 data, and is comprised of 7 properties.

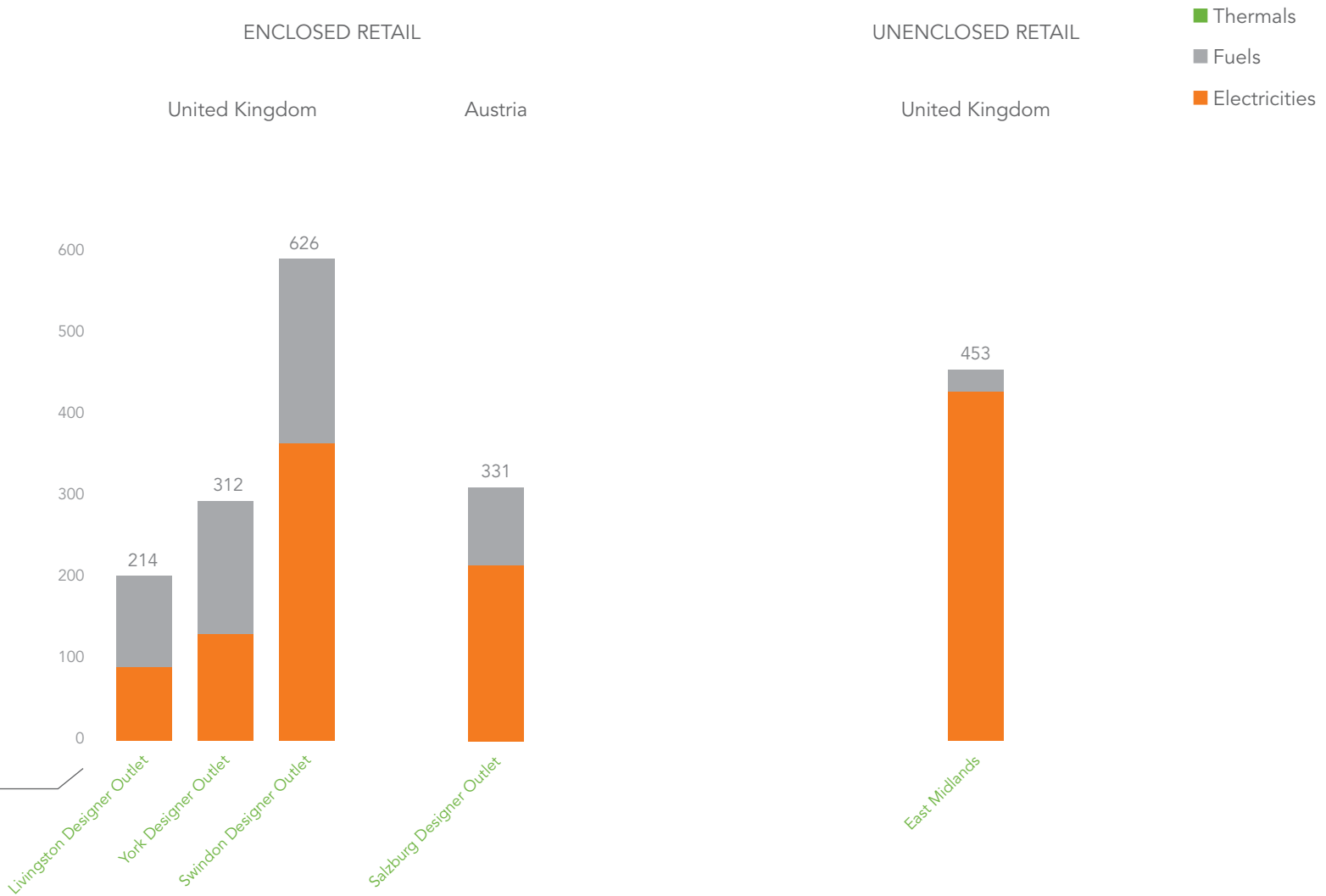
The overall increase in emissions for McArthurGlen is primarily attributable to a large increase in natural gas consumption at Swindon Designer Outlet, which increased Scope 1 emissions at this property by over 200%.

| Property | Retail Sub-Type | 2010 Energy (kWh) | 2009 Energy (kWh) | % Change of Energy | 2009 kg CO ₂ e | 2010 kg CO ₂ e | % Change of Energy |
|----------------------------------|-----------------|-------------------|-------------------|--------------------|---------------------------|---------------------------|--------------------|
| Ashford Designer Outlet | Unenclosed | | 2,071,794 | | | 40,440 | |
| Barberino Designer Outlet | Unenclosed | 883,800 | 872,464 | (1.3%) | 11,904 | 3,851 | (67.6%) |
| Berlin Designer Outlet | Unenclosed | | 805,134 | | | 74,036 | |
| Bridgend Designer Outlet | Unenclosed | 1,254,439 | 1,098,364 | (12.4%) | 404,469 | 316,749 | (21.7%) |
| Castel Romano Designer Outlet | Unenclosed | 1,108,972 | 1,091,919 | -1.5% | 284,213 | 0 | (100.0%) |
| Cheshire Oaks Designer Outlet | Unenclosed | 2,137,538 | 1,663,447 | (22.2%) | 110,920 | 66,836 | (39.7%) |
| East Midlands | Unenclosed | | 7,226,696 | | | 90,163 | |
| La Reggia Designer Outlet Naples | Unenclosed | 1,644,900 | 1,184,517 | (28.0%) | 447,996 | 448,083 | 0.0% |
| Livingston Designer Outlet | Enclosed | | 4,638,563 | | | 529,081 | |
| Parndorf Designer Outlet | Unenclosed | | 2,386,192 | | | 795 | |
| Roermond Designer Outlet | Unenclosed | | 662,729 | | | 219,528 | |
| Salzburg Designer Outlet | Enclosed | | 7,461,979 | | | 472,906 | |
| Serravalle Designer Outlet | Unenclosed | 7,815,760 | 6,843,376 | (12.4%) | 1,336,825 | 1,126,273 | (15.8%) |
| Swindon Designer Outlet | Enclosed | 11,427,334 | 12,452,176 | 9.0% | 757,653 | 2,490,921 | 228.8% |
| Veneto Designer Outlet | Unenclosed | | 682,575 | | | 275,760 | |
| York Designer Outlet | Enclosed | 3,023,598 | 3,107,188 | 2.8% | 324,743 | 355,580 | 9.5% |

4 Appendices

- A.
MEMBER OFFICE ENERGY USE
INTENSITY BY ENERGY TYPE
- B.
MEMBER OFFICE ENERGY USE
INTENSITY BY LANDLORD/TENANT
ORIGIN OF ENERGY
- C.
QUALITY CONTROLS & VERIFICATION
- D.
EMISSIONS COEFFICIENTS
- E.
GLOSSARY
- F.
ENDNOTES

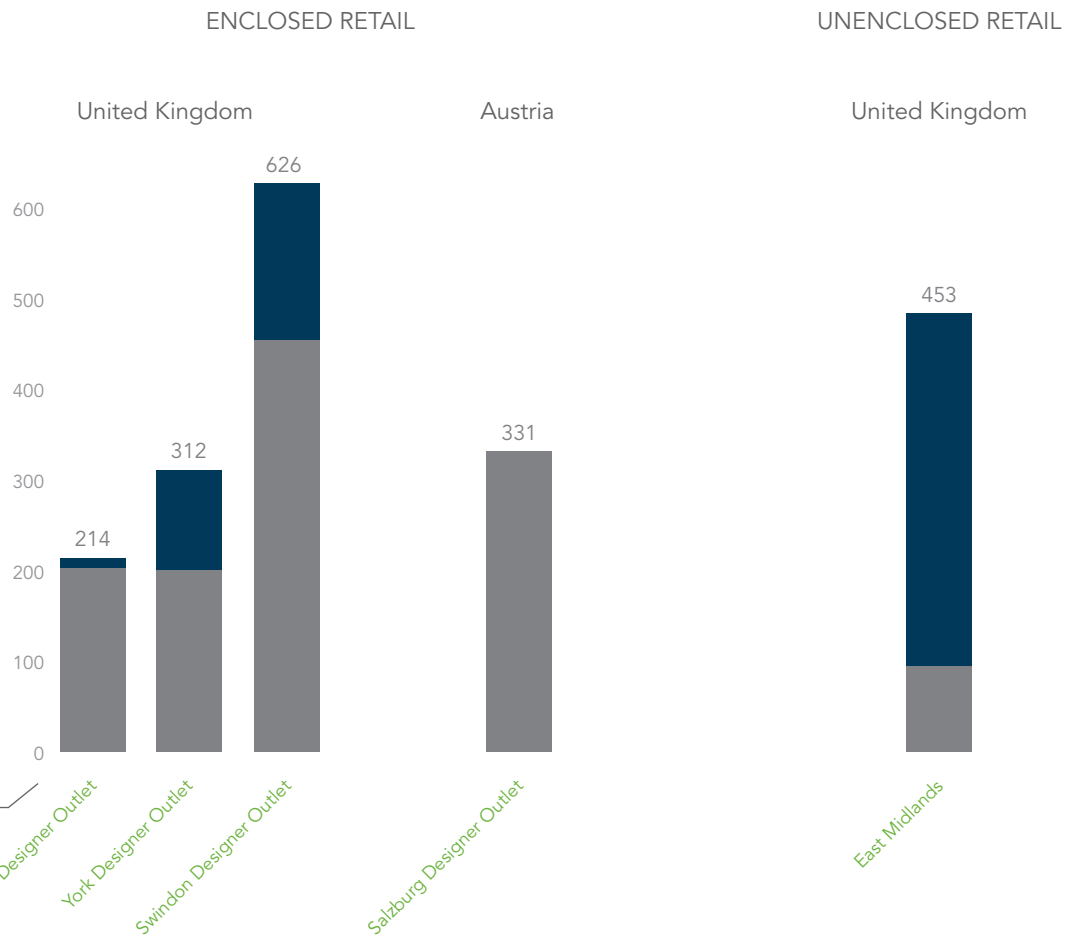
McArthurGlen Group Retail Energy Use Intensity by Energy Type in EMEA



ENERGY INTENSITY
annual kWh / m²
(rentable area)

McArthurGlen Group Retail Energy Use Intensity by Landlord/Tenant Metering Arrangement in EMEA

- Tenant Obtained Energy
- Landlord Obtained Energy - Submetered to Tenant
- Landlord Obtained Energy - Not Submetered to Tenant



ENERGY INTENSITY
annual kWh / m²
(rentable area)

Quality Controls & Verifications

Greenprint Foundation employs a data collection, verification and calculation process aligned with the Greenhouse Gas Protocol and the principles of ISO 14064.

The Performance Report Committee employs a quality management procedure to ensure accurate and verifiable results adhering to the following steps:

| Responsibility | Role |
|---------------------------------|--|
| 1. Identification of Sites | Member Approver |
| 2. Input of Property Data | Member Respondent |
| 3. Software Plausibility Checks | Greenprint Software |
| 4. Review and Approval of Data | Member Approver |
| 5. Verification of Data | Greenprint Validator / Project Coordinator |
| 6. Calculation of GHG Emissions | Project Coordinator |
| 7. Verification of Results | Greenprint Validator |

Roles:

- **Member Approver:** A senior-level employee from each Greenprint member who selects sites for inclusion in the Report and provides oversight of the review process on behalf of the member firm.
- **Member Respondent:** A property-level employee from each Greenprint member that collects property data.
- **Project Coordinator:** An ISO 9001-certified contractor administers the web-enabled questionnaire, manages the software plausibility checks and performs GHG emissions calculations.
- **Greenprint Validator:** Greenprint's Vice President of Technology & Member Services provides oversight review of the software architecture, data collection and results, and creates workflow process with Members' Approvers.

Data sources include:

- Property data based upon the records of building landlords or their building management companies. Occupier space data is based upon tenant records and lease agreements.
- Energy data based upon utility bills, invoices, power supply company records or meter readings.
- Refrigerant data based upon property maintenance logs.

Greenprint Foundation will commission verification of its Performance Report by an independent third party. The verifier will produce materiality thresholds to assess any material discrepancies in Volume 2 of the Report. The verification report will be publicly released in January 2012.

Emissions Coefficients

Electricity Emissions Factors (2006) [except USA eGRID factors (2007)]:
kg CO₂ per kWh electricity generated

| Americas | | EMEA | | Asia Pacific | |
|---------------------------------------|--------|----------------------|--------|---|--------|
| Argentina | 0.3034 | Austria | 0.2140 | Australia (NGER determination) | 0.9210 |
| Brazil | 0.0810 | Belgium | 0.2600 | New South Wales and Australian Capital Territory | 0.9000 |
| Canada | 0.1840 | Czech Republic | 0.5270 | Victoria | 1.2300 |
| Chile | 0.2942 | Finland | 0.2420 | Queensland | 0.8900 |
| Mexico | 0.5410 | France | 0.0850 | South Australia | 0.7200 |
| United States (by eGRID subregion) | 0.5895 | Germany | 0.4040 | South West Intercon- nected System in Western Australia | 0.8200 |
| ASCC Alaska Grid | 0.5828 | Greece | 0.7250 | Tasmania | 0.3200 |
| ASCC Miscellaneous | 0.2430 | Hungary | 0.3440 | Northern Territory | 0.6800 |
| ERCOT All | 0.5682 | Ireland | 0.5350 | China | 0.7880 |
| FRCC All | 0.5535 | Italy | 0.4040 | Hong Kong | 0.8550 |
| HICC Miscellaneous | 0.6096 | Luxembourg | 0.3260 | India | 0.9440 |
| HICC Oahu | 0.7352 | Netherlands | 0.3940 | Indonesia | 0.6770 |
| MRO East | 0.7677 | Poland | 0.6590 | Japan | 0.4180 |
| MRO West | 0.7814 | Portugal | 0.4160 | Korea, Republic Of | 0.5330 |
| NPCC Long Island | 0.6436 | Romania | 0.4290 | Malaysia | 0.6550 |
| NPCC New England | 0.3756 | Russian Federation | 0.3290 | New Zealand | 0.3090 |
| NPCC NYC/Westchester | 0.3197 | Slovakia | 0.2230 | Philippines | 0.4350 |
| NPCC Upstate NY | 0.3099 | Spain | 0.3500 | Singapore | 0.5360 |
| RFC East | 0.4805 | Sweden | 0.0440 | Taiwan, Province Of China | 0.6590 |
| RFC Michigan | 0.7490 | Turkey | 0.4380 | Thailand | 0.5110 |
| RFC West | 0.7038 | Ukraine | 0.3440 | Vietnam | 0.3963 |
| SERC Midwest | 0.8071 | United Arab Emirates | 0.8200 | | |
| SERC Mississippi Valley | 0.4555 | United Kingdom | 0.4980 | | |
| SERC South | 0.6784 | | | | |
| SERC Tennessee Valley | 0.6989 | | | | |
| SERC Virginia/Carolina | 0.5073 | | | | |
| SPP North | 0.8159 | | | | |
| SPP South | 0.7367 | | | | |
| WECC California | 0.3089 | | | | |
| WECC Northwest | 0.3896 | | | | |
| WECC Rockies | 0.8646 | | | | |
| WECC Southwest | 0.5682 | | | | |

Source

Emission factor data is from International Energy Agency Data Services, 2006 and 2008 for “CO₂ Emissions per kWh Electricity and Heat Generated” and mainly sourced from the GHG Protocol website <http://www.ghgprotocol.org/calculation-tools> (as cited in table 10a of 2010 Guidelines to Defra / DECC’s GHG Conversion Factors for Company Reporting, Version 1.2.1 FINAL, Updated 6/Oct/2010; <http://archive.defra.gov.uk/environment/business/reporting/pdf/101006-guidelines-ghg-conversion-factors.xls>)

Where government sponsored sub-country emissions factors are publicly available, these are used (for the USA and Australia).

For the USA: US EPA eGRID2010 (2007 data) Version 1.1; http://www.epa.gov/cleanenergy/documents/egridzips/eGRID2010V1_1_year07_SummaryTables.pdf

For Australia: National Greenhouse and Energy Reporting (Measurement) Determination 2008, Chapter 6; <http://www.comlaw.gov.au/Details/F2010C00563/Html/Text#param538>

Emissions Coefficients (continued)

| Fuel Emissions Factors | kg CO ₂ e per kWh |
|------------------------|------------------------------|
| Diesel | 0.26916 |
| Fuel Oil | 0.28289 |
| LPG | 0.23027 |
| Natural Gas | 0.20558 |
| Petrol Gasoline | 0.25449 |

Source

Table 10d of 2010 Guidelines to Defra / DECC's GHG Conversion Factors for Company Reporting, Version 1.2.1 FINAL, Updated 6/Oct/2010; <http://archive.defra.gov.uk/environment/business/reporting/pdf/101006-guidelines-ghg-conversion-factors.xls>

Notes

Within this report, the same fuel emissions factors have been used across countries. This is in keeping with the following:

"... companies reporting on their emissions may need to include emissions resulting from overseas activities. Whilst many of the standard fuel emissions factors are likely to be similar for fuels used in other countries, grid electricity emission factors vary very considerably. It was therefore deemed useful to provide a set of overseas electricity emission factors to aid in reporting where such information is hard to source locally."

Paragraph 190, page 54: <http://www.defra.gov.uk/environment/business/reporting/pdf/091013-guidelines-ghg-conversion-factors-method-paper.pdf>

| Thermal Energies Emissions Factors | kg CO ₂ e / MBtu | kg CO ₂ e / kWh |
|---|-----------------------------|----------------------------|
| District Steam | 78.95 | 0.269488544 |
| District Hot Water | 78.95 | 0.269388544 |
| District Chilled Water – Absorption Chiller using Natural Gas | 66.50 | 0.226907387 |
| District Chilled Water – Engine-Driven Chiller using Natural Gas | 44.33 | 0.151260217 |

Source

Greenhouse Gas Inventory and Tracking in Portfolio Manager August 31, 2009; Table 2 Indirect Greenhouse Gas Emission Factors (District Energy) (page 3); http://www.energystar.gov/ia/business/evaluate_performance/Emissions_Supporting_Doc.pdf

In turn: Form EIA-1605, Voluntary Reporting of Greenhouse Gases, Revised Pursuant to 10 CFR Part 300; Guidelines for Voluntary Greenhouse Gas Reporting; Energy Information Administration, U.S. Department of Energy, October 15, 2007; http://www.eia.doe.gov/oiaf/1605/pdf/EIA1605_Instructions_10-23-07.pdf

Glossary of Terms

CO₂e averted as onsite renewable electricity

the amount of GHGs averted from the use of onsite renewable energy, e.g. wind, water, solar, geothermal energy, and biofuels.

CO₂e averted as certified renewable

the amount of GHGs averted through the purchase of certified renewable electricity from power supply companies.

CO₂e emitted from onsite thermal energies

the GHGs emitted from the onsite generation of thermal heating and, or cooling.

CO₂e emitted running onsite CHP the GHGs emitted from the operation of onsite combined heat and power (CHP) producing thermal energy and electricity (for consumption both onsite and exported).

CO₂e emitted from all imported fossil fuels the GHGs emitted from the consumption of fossil fuels purchased by the landlord or tenant(s) from power supply companies.

CO₂e emitted from non-certified grid

electricity GHGs emitted from the consumption of standard grid electricity purchased by the landlord or tenant(s).

CO₂e emitted from fugitive emissions are the GHGs emitted through the intentional or unintentional loss of refrigerants.

Current Year is the complete sample set of properties submitted in the current year Greenprint Performance Report that have corresponding energy and floor area.

ISO 14064 is a globally recognized standard for quantification, monitoring and reporting of sources of greenhouse gas emissions, as well as the validation of emissions data and assertions.

Like for Like is a specific Year over Year analysis of the current year's properties that also have data from the previous year.

Mean Average is obtained by dividing the sum of observed values in a dataset by the number of observations. In the context of the Greenprint Carbon Index™ (GCX) the emissions intensity is the aggregated emissions of the current year divided by the aggregated floor area of the same set of properties.

Median is the value lying at the midpoint of a distribution of observed values.

Normalized refers to an energy use metric that is independent of the size of the building by dividing energy use by corresponding floor area.

Occupancy is calculated on rentable floor area.

Year over Year is an analysis that compares the current year's data against historical data in the Greenprint dataset.

Endnotes

- 1 The 2010 Greenprint Performance Report primarily consists of member data from calendar year 2010, however, some member data was provided from their fiscal year 2010, ending March 2011.
- 2 Contribution of Working Group III to the Fourth Assessment Report of IPCC (2007), Chapter 3: Issues Related to Mitigation in the Long-Term Context, p. 173: "Using the 'best estimate' assumption of climate sensitivity, the most stringent scenarios (stabilizing at 445–490 ppmv CO₂-equivalent) could limit global mean temperature increases to 2–2.4 degrees Celsius above the pre-industrial level, at equilibrium, requiring emissions to peak before 2015. Global CO₂ emissions would return to 2000 levels no later than 2030."
- 3 Members have submitted properties for which they have a full 12-month period of energy consumption (and fugitive emissions) data.
- 4 <http://www.epa.gov/cleanenergy/energy-resources/calculator.html>

Disclaimer

All calculations presented in this report are based on data submitted to Greenprint Foundation. While every effort has been made to ensure these data's accuracy, the possibility for errors exists. This report is not intended to be a flawless accounting of carbon emissions by the Foundation's membership. Greenprint Foundation does not accept responsibility for the completeness or accuracy of this report, and it shall not be held liable for any damage or loss that may result, either directly or indirectly, as a result of its use.

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2010 Greenprint Performance Report

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 British Land
 Canary Wharf Group
 Deutsche Bank
 Douglas Emmett
 Equity Office Properties
 GE Capital Real Estate
 GLL Real Estate Partners
 Grosvenor
 Hammerson

Henderson Global Investors
 Hermes Real Estate
 Hines
 Jones Lang LaSalle
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