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Environmental Profile

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Landis+Gyr enables people, organizations and communities to ‘manage energy better’. This is the Company’s mission that it aims to accomplish in a deliberate and responsible manner. In financial year 2012/13, the Group reduced its CO2 emissions from 1.9 kg to 1.7 kg per USD 100 turnover. Since 2007, the first year the emissions were recorded, this was the sixth improvement in a row. Landis+Gyr successfully reduced its carbon footprint year over year, decreasing its greenhouse gas emissions by 39% over the entire period.

Five-year Key Figures

	2008	2009	2010	2011	2012/13
Kg CO ₂ e/USD 100 turnover	2.4	2.3	2.0	1.9	1.7
Turnover in USD billion	1.4	1.4	1.5	1.6	1.7
Employees	5,070	4,850	5,140	5,210	5,300
tCO ₂ e*	39,512	35,461	35,238	35,060	33,921

* Total Scope 1, Scope 2 and Scope 3

Landis+Gyr Group

Landis+Gyr is the leading global provider of integrated energy management products tailored to energy company needs and unique in its ability to deliver true end-to-end Advanced Metering Infrastructure solutions. Today, the Company offers the broadest portfolio of products and services in the electricity metering industry and is paving the way for the next generation of the Smart Grid.

With annual sales of USD 1.67 billion, Landis+Gyr, an independent growth platform of the Toshiba Corporation (TKY: 6502) and 40% of which is owned by the Innovation Network Corporation of Japan (INCJ), operates in 30 countries across five continents and employs 5,300 people with the sole mission of helping the world manage energy better. More information is available at www.landisgyr.com

Committed to Sustainability



“Landis+Gyr is highly committed to sustainable development. With its green products and service offering, the Company contributes to a healthy society and the responsible use of natural resources. However, Landis+Gyr is even more proud of the energy efficiency gains made possible by its innovative solutions. Smart metering infrastructure allows end-consumers and utilities to reduce their CO₂ emissions by thousands of tons. Knowing that two-thirds of today’s electricity is generated from fossil resources, as statistics from the OECD and IEA show, this is a relevant amount in the fight against climate change.”

Andreas Umbach, President and CEO

Landis+Gyr is dedicated to environmentally conscious manufacturing of environmentally innovative products. The Company is proud to provide technologies and solutions to utilities and end-users that enable them to manage energy better. These product offerings allow for significant energy efficiency gains, thereby effectively reducing greenhouse gas emissions.

In addition to the carbon footprint analysis prepared since 2007, Landis+Gyr expanded its reporting scope to include water, waste and chemicals data in 2012/13, thereby harmonizing its efforts with the guidelines of the Toshiba Group. This year’s report therefore includes additional data expressing total originated waste and the amount of water used. The chemical data serves as a baseline for future reduction efforts. This year’s report is the second report following the acquisition of the Landis+Gyr Group by the Toshiba Corporation in 2011. One of the consequences of the acquisition on this year’s carbon reporting is the change in the reporting period from the previous calendar year to align with Toshiba’s fiscal year, which runs from 1 April to 31 March.

The ultimate goal of Landis+Gyr is to make a substantial contribution to the conservation of natural resources and environments:

- **Avoiding the use of harmful materials, thereby minimizing pollution**
- **Integration of life cycle and recycling planning as an integral factor of the product design process**
- **Reduction of waste to a minimum**
- **Compliance with relevant health, safety and environmental regulations and standards, among them ISO 9001, ISO 14001, BS 18001**

Landis+Gyr leading by Example

Landis+Gyr acts in accordance with all relevant health, safety and environmental regulations, codes and standards. In addition to ISO 14001 certification throughout the Company and at all its key suppliers, Landis+Gyr addresses life cycle and recycling aspects as an integral factor of its product design process.

Each year Landis+Gyr employees around the world are invited to help to improve the organization's energy efficiency. One example of this employee engagement comes from the Stockport plant in England, where Landis+Gyr was helping turn the Greater Manchester area a little bit greener by planting the first of 500 trees at its Orion Business Park site. In total the 500 trees will offset over 450 tonnes of CO₂ over their lifetime, equivalent to taking 100 cars off of the streets of Manchester. The tree varieties include Elders, Guelder Roses, Silver Birches and Common Hazels and have been recommended by the local forestry commission, in conjunction with Landis+Gyr's horticultural specialist and the CSR team of parent company Toshiba.



The Asia Pacific region laid a special focus on green initiatives and implemented the following projects:

- Energy efficient lighting in Sydney and Melbourne, Australia
- On-off switches on all new production lines in Sydney, Australia
- Smart air-conditioning in Zhubai, China
- Recycling and waste office programs at the Australian, New Zealand and Chinese sites
- Various environmental education initiatives.

2012/13: Expansion of Data Recording to Water, Waste and the Use of Chemicals

Since Landis+Gyr joined the Toshiba Group in August 2011, the two organizations have harmonized and synchronized their environmental reporting framework.

Landis+Gyr follows the basic communication guidelines of Toshiba that outline the Group's engagement in its efforts regarding:

- Greening of Processes (environmentally conscious manufacturing)
- Greening of Products (environmentally conscious products)
- Greening by Technology (energy and environmental technology).

Beginning in 2013, Landis+Gyr's environmental data will be integrated and reported via Toshiba's corporate environmental report. Landis+Gyr's emission reduction targets are aligned with Toshiba Corporation's environmental policies, initiatives and Environmental Vision 2050.

<http://www.toshiba.co.jp/env/en/index.htm>

At the same time, Landis+Gyr continues its own proven initiatives. While Toshiba compiles the emission data of its major production plants, Landis+Gyr expanded its data recording of water, waste and the use of chemicals across all its sites. By using alternatives and improving processes, the Group is further reducing usage of the targeted substances.

Multiple Awards for Go Green Program



The local Go Green team is proud of the awards it has received in recognition of its efforts during the past years.

The Go Green project is another initiative conceived by the Group's employee engagement program. The Go Green committee at the Landis+Gyr site in Reynosa (Mexico) was formed five years ago with the mission of reducing energy consumption. The team meets on a regular basis to study electricity, water and gas consumption, to brainstorm ideas on how to reduce consumption, and to develop plans for implementing those ideas.

In 2012/13 the Go Green team received the following awards in recognition of its efforts:

- The Environmental Leadership Program Award from the Mexican Federal Environmental Agency
- Bronze Award Environmental Management Award from the State of Tamaulipas Environmental Agency.

Below is a sample of the projects it has implemented:

- A hygroscopic roof covering project that reduced internal building temperature and A/C maintenance and energy costs
- A lighting project that reduced energy consumption by 25%
- Projects to collect rainwater and A/C condensation water for use by lawn irrigation systems were implemented to reduce freshwater consumption
- Automatic shut off devices and sensors were implemented throughout the facility to reduce water and energy consumption.



The facility uses sub metering throughout the facility to gauge energy usage. Energy usage is measured from different collection points throughout the facility. The data is studied by the Go Green team for energy reduction opportunities.



The Reynosa plant recycles more than 500 tons of material per year. Proceeds from recycled material are used to fund special employee events such as the annual picnic.



“Our Go Green program in Reynosa Mexico has been a huge success. The team continues to exceed expectations and is viewed by many of the 250 manufacturing plants in Reynosa Mexico as the benchmark for energy conservation.”

Aubrey Williams, Vice President Operations, Landis+Gyr North America.

Carbon Footprint

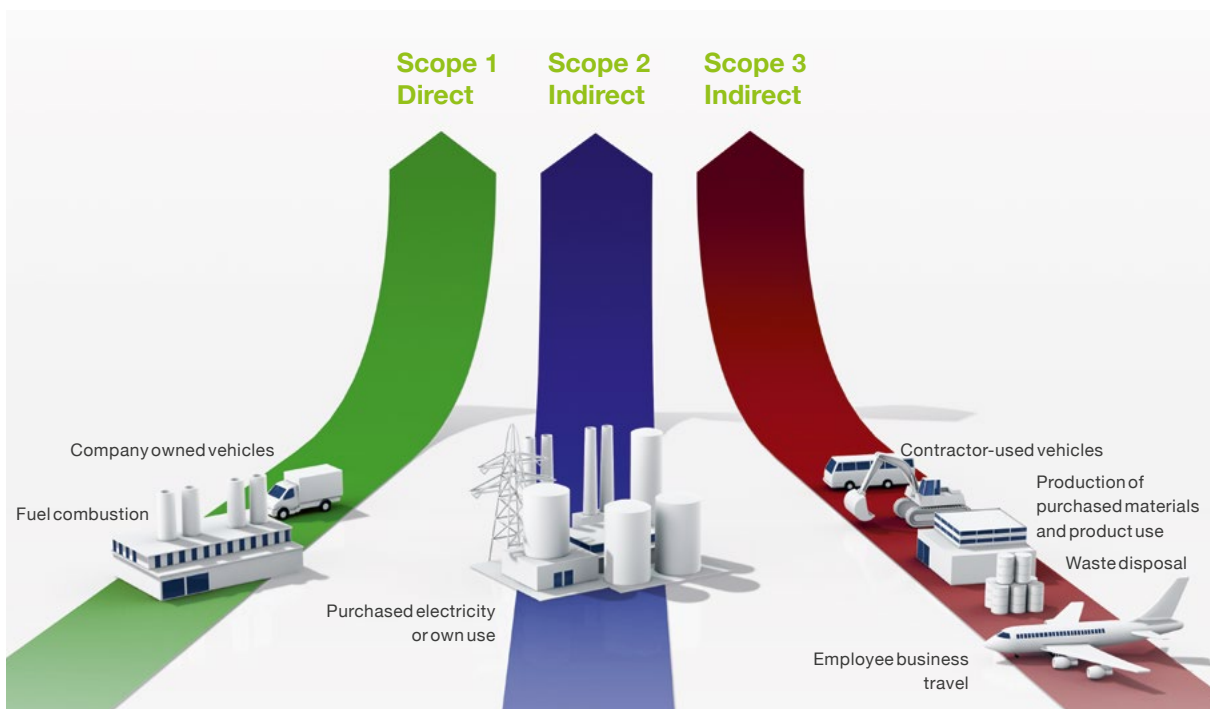
The carbon footprint analyses were undertaken for the sixth consecutive year (2007 to 2012/13) to quantify the greenhouse gas (GHG) emissions of Landis+Gyr. Progress is monitored by collecting detailed emission data and by analyzing this data to define further improvement potential. The web-based SoFi software and reporting system was used for data capture, aggregation and analysis. The SoFi system is now well integrated across the Landis+Gyr Group and its sites worldwide and is currently being expanded to capture a broader range of sustainability indicators. After Toshiba's acquisition of Landis+Gyr in 2011, emissions' reporting has now changed from a calendar year basis (January–December) to Toshiba's fiscal year basis (April–March).

Due to the acquisition of Landis+Gyr by the Toshiba Corporation in 2011, no independent verification of Landis+Gyr's activity data – forming the basis for the carbon footprint analysis – was carried-out by an independent audit company for 2012/13. However, the data and analysis did receive a thorough assessment by PE International, a specialized consulting company in the area of sustainability management, and Landis+Gyr's previous auditor of this data.

Landis+Gyr selected the Operational Control Approach to determine which sites are to be included in the corporate carbon footprint. The application of the operational control approach implies that GHG-relevant impacts of activities are accounted for at those sites, subsidiaries or operations which are controlled by the Company. Landis+Gyr's corporate carbon footprint includes all of its R&D, Sales and Manufacturing sites.

The GHG protocol provides the three 'scopes' (scope 1, scope 2 and scope 3) in order to help delineate direct and indirect emission sources, improve transparency and provide utility for different types of organizations and different types of climate policies and business goals. The carbon footprint is expressed in CO₂ equivalents (CO₂e). The unit of measurement is metric tons, and all GHG emissions are converted to metric tons of CO₂e, using appropriate GWP (Global Warming Potential) factors as published by the Intergovernmental Panel on Climate Change (IPCC). This allows for the aggregation of all GHG emissions in one single indicator, expressed as the carbon footprint.

- Landis+Gyr Group is a sustainable and environmentally conscious corporation to the benefit of customers, current and potential future shareholders, employees, suppliers and other stakeholders
- Carbon footprint records since 2007
- In 2012/13 Landis+Gyr reduced its GHG emissions by 3.2%



Scope 1

Direct emissions from sources that are owned or controlled by the Company:

- Energy carriers for the generation of electricity, heat and steam
- Diesel for the operation of emergency generators
- Direct GHG emissions attributable to chemical/ physical processing
- Energy carriers consumed in transportation (Landis+Gyr fleet only).

Scope 2

Indirect emissions associated with the generation of purchased electricity consumed by the Company as well as district heating and process steam.

Scope 3

All other indirect emissions that occur as a consequence of the activities of the Company from sources not owned or controlled by the Company. Landis+Gyr used business air travel as an indicator of its scope 3 emissions.

- Scope 1 emissions decreased by 1.8%
- Scope 2 emissions decreased by 5.2%
- Scope 3 emissions increased by 4.4%
- 65% (22,000 t) of total scope 1+2+3 emissions stem from the Group's electricity

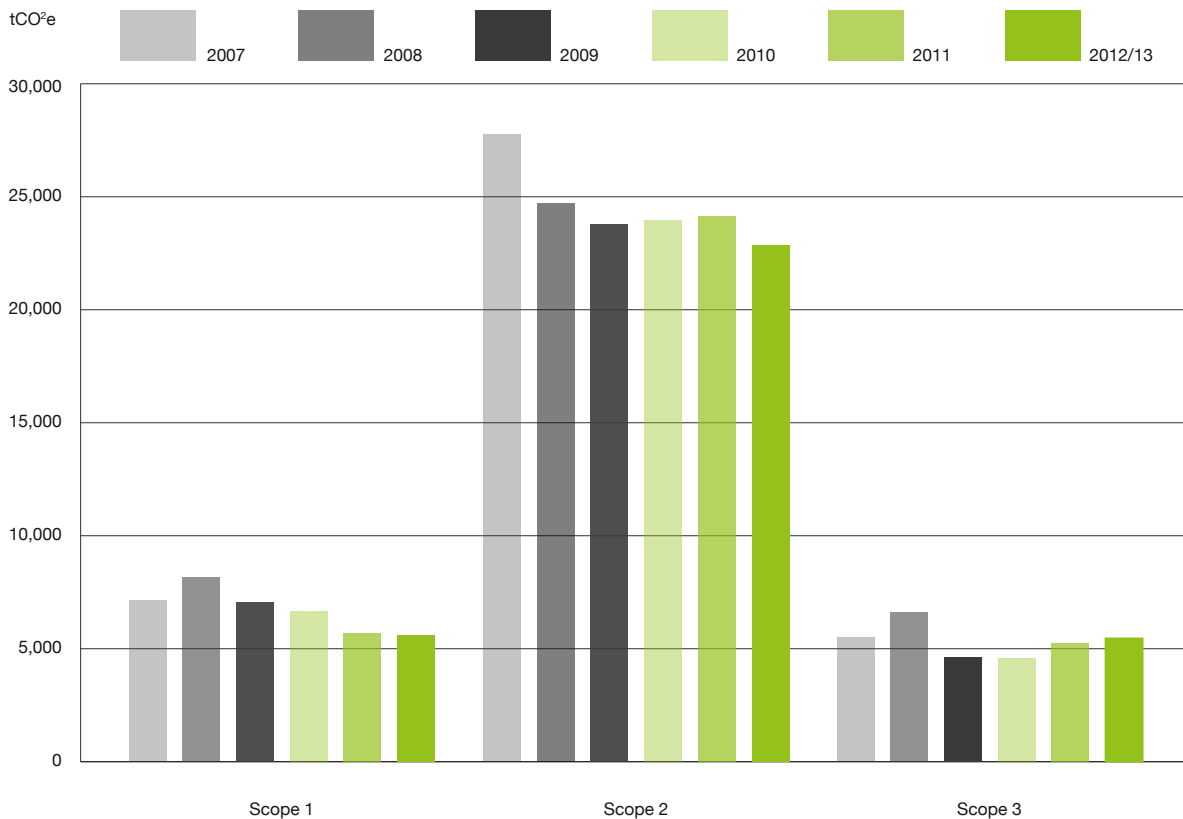
2012/13 Results

In total, the Landis+Gyr Group emitted 33,900 tonnes of CO₂e in 2012/13. This is 1,100 t or 3.2% less than in 2011, or 3.8% (1,300 t) less than in 2010.

In accordance with accepted global standards, the carbon footprint has also been allocated by category: Scope 1 (direct emissions) amounts to 5,600 t CO₂e (16% of total). Scope 2 (indirect emissions) represents the largest component with 22,900 t CO₂e (67%). Business air travel, as part of scope 3, only contributes a relatively small component (5,500 t or 16%) to the total carbon footprint.

With around 13,700 t CO₂e, North America generates the largest proportion of overall emissions (40%), followed by EMEA with 11,300 t CO₂e (33%), the Asia-Pacific region with 7,200 t CO₂e (21%), and South America with 1,700 t (5%). As expected these percentages align quite closely with the regional revenue mix.

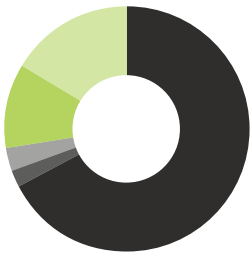
Total CO₂e emissions of the Landis+Gyr Group 2007–2012/13 Per Scope





2012/13 Breakdown by Source

Global 1+2+3 emissions:
33,921 tCO₂e



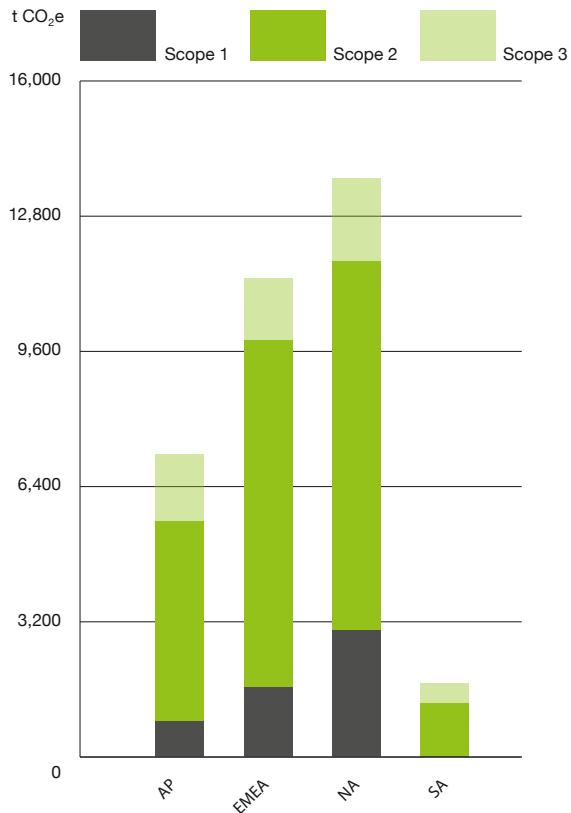
Electricity/District Heating	67.42 %
Fuels (diesel oil)	2.22 %
Fuels (natural gas, LPG)	2.90 %
Direct process emissions	0.15 %
Road travel	11.19 %
Airtravel	16.12 %

67% (22,000 t) of total scope 1+2+3 emissions stem from the Group's electricity consumption.

2012/13 Regional Breakdown

The Landis+Gyr Group has sites in its four regions worldwide: Asia-Pacific (AP), Europe, Middle East and Africa (EMEA), North America (NA) and South America (SA).

With around 13,700 t CO₂e, North America generates the largest proportion of overall emissions (40%), followed by EMEA with 11,300 t CO₂e (33%), the Asia-Pacific region with 7,200 t CO₂e (21%), and South America with 1,700 t (5%).



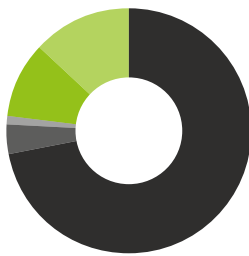
Asia-Pacific



Electricity/District Heating	66 %
Fuels	0 %
Process emissions	11 %
Road travel	1 %
Business air travel	22 %

In the Asia-Pacific region, almost three-quarters (66%) of emissions are caused by consumption of electricity and district heating, followed by emissions caused by air travel (22%). The use of fuels for stationary power generation contributes 11% to the carbon footprint. Emissions from road travel amount to 1%, whereas direct process emissions are insignificant.

Europe/Middle East/Africa (EMEA)



Electricity/District Heating	72 %
Fuels	4 %
Process emissions	1 %
Road travel	10 %
Business air travel	13 %

In Europe/Middle East/Africa (EMEA), 72% of emissions are caused by the use of electricity and district heating. The use of fuels (stationary combustion) only accounts for 4%. On the other hand, with 10% of the total, road travel in the EU is much more significant than in Asia-Pacific. Air travel contributes 13% of emissions.

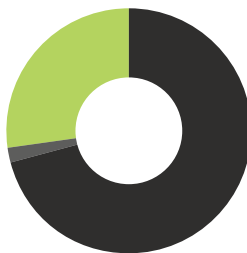
North America



Electricity/District Heating	64%
Fuels	3%
Process emissions	0%
Road travel	19%
Business air travel	14%

Emissions in North America are dominated by electricity consumption (64%). Emissions from travel are fairly high (especially road travel with 19%) due to the significant service operations, which require higher deployment and service work.

South America



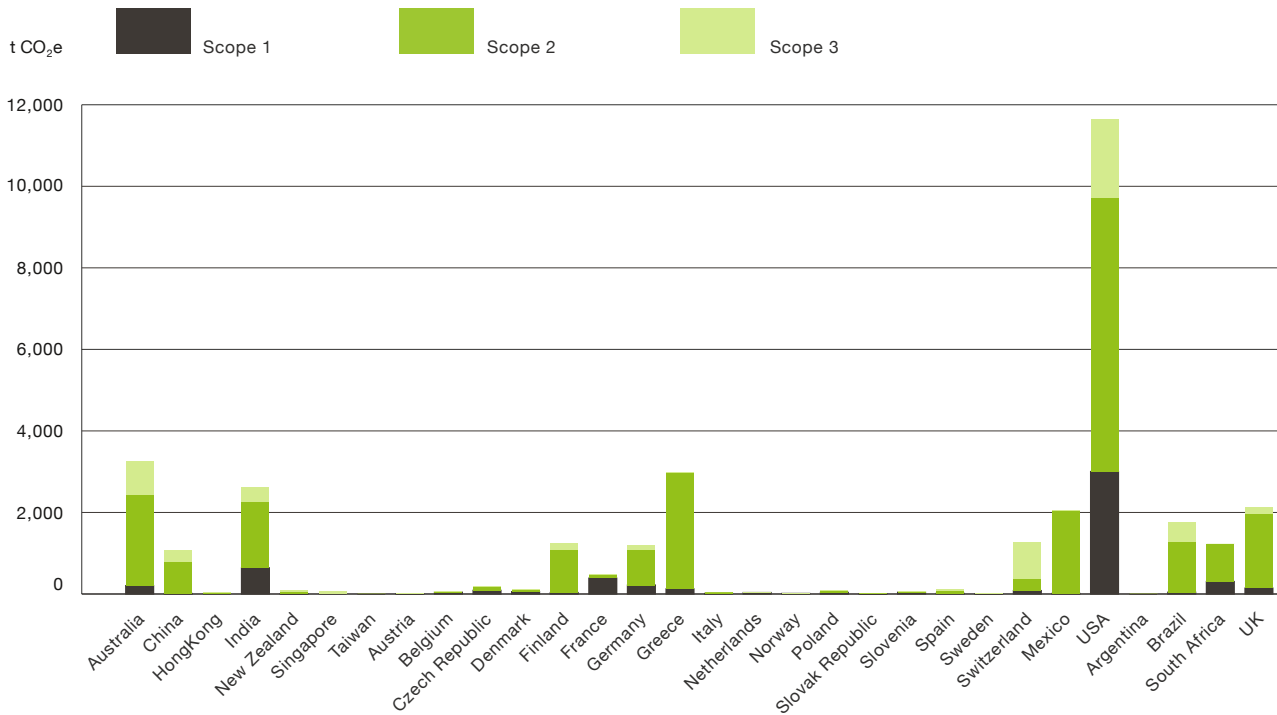
Electricity/District Heating	71%
Fuels	2%
Process emissions	0%
Road travel	0%
Business air travel	27%

South America shows that the electricity component represents 71%. Other sources except air travel (28%) are insignificant.

Carbon Footprint in Individual Countries

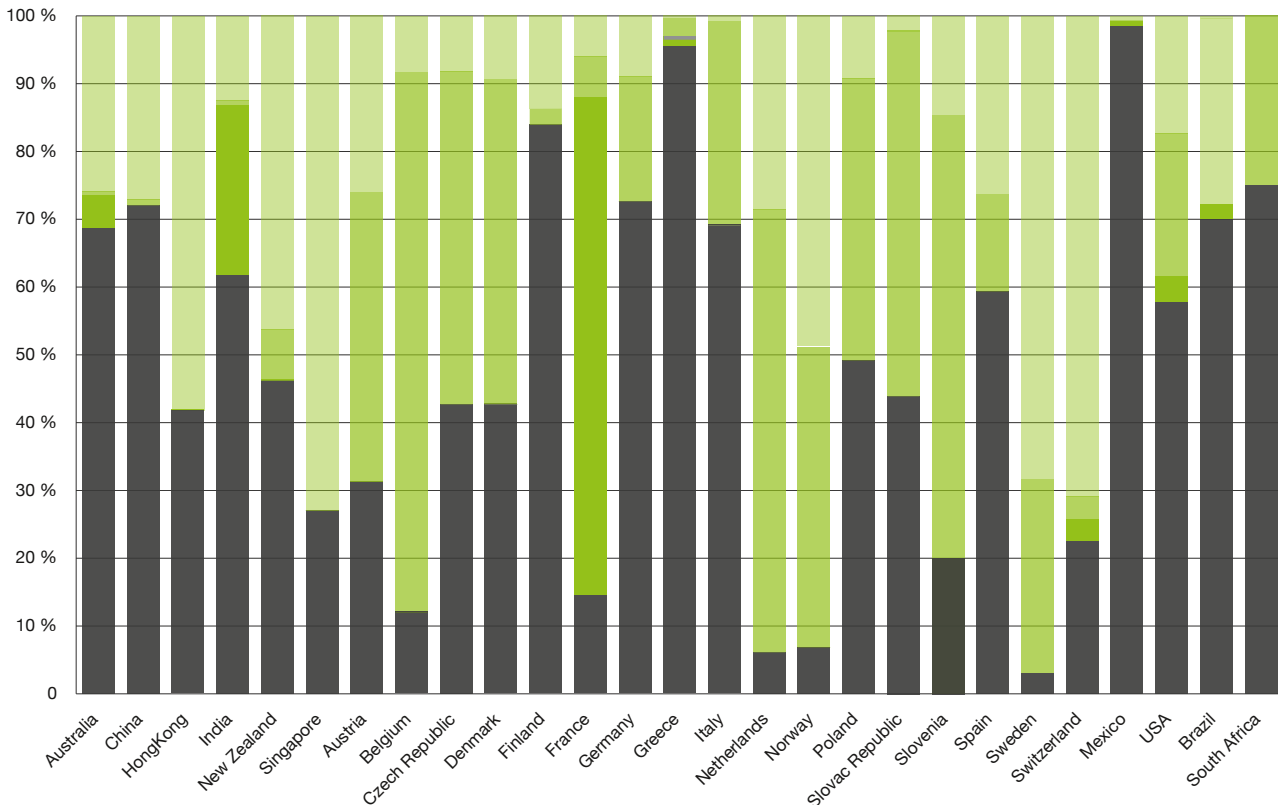
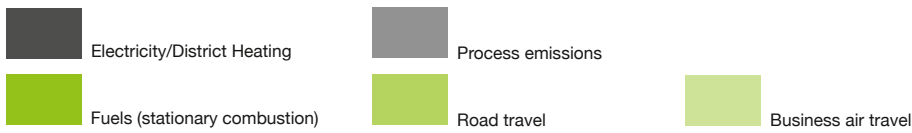
The USA is the greatest emitter of GHG's with 11,600 t of CO₂e followed by Australia and Greece, each with around 3,000 t of CO₂e. Next are India, Mexico and UK with between 2,000 and 3,000 t, followed by Brazil, Finland, Germany, Switzerland, South Africa and China (between 1,000 and 2,000 t). The emissions of all remaining countries are very low.

The reason for USA's high emissions is related to our service business model in US, whereas energy consumption for datacenter and field service support affect all three scopes.



Breakdown of Each Country's Carbon Footprint by Source

In the US, 58% of the emissions are caused by the consumption of electricity and almost 40% are attributable to road and air travel.



Economic Intensity Ratios

Ratio indicators provide information on performance relative to a business type and can facilitate comparisons between products and processes. Intensity ratios express the GHG impact per unit of physical activity or unit of economic output. In order to enable better comparison with other businesses, only scope 1 and scope 2 emissions have been used for the calculation of intensities. The indicators chosen to express GHG intensities are:

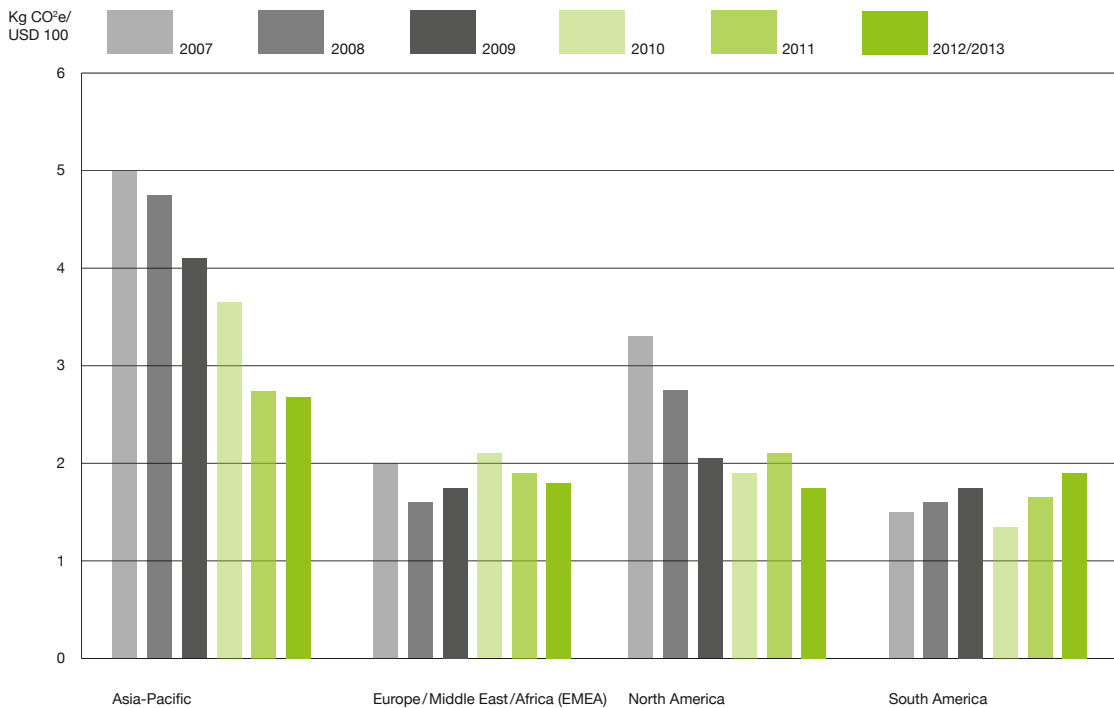
- Emissions per product
- Emissions per employee
- Emissions per 10 square meters of floorspace
- Emissions per USD 100 of turnover.

	2007	2008	2009	2010	2011	2012/13
kg per product	2.3	2.5	2.2	2.1	1.8	1.6
t per employee	6.5	6.5	6.4	6.0	5.7	5.4
t per 10m ² floorspace	1.8	1.5	1.7	1.5	1.6	1.5
kg CO ₂ e per USD 100 turnover	2.8	2.4	2.3	2.0	1.9	1.7

The average Group emissions are 1.6 kg per (average) product, 5.4 t per employee, 1.5 t per 100 m² of floor space and 1.7 kg per USD 100 of turnover. The table also shows the values for the previous years. ‘Emissions per turnover’ is a key performance indicator and it is clearly trending lower. Over the five year timeframe between 2007 and 2012/13, Landis+Gyr has reduced emissions on a ‘per turnover’ basis from 2.8 kg per USD 100 of turnover (2007) to 1.7 kg per USD 100 (2012/13), or by 40 %. The indicator ‘Emissions per employee’ reduced (from 6.5 t in 2007 to 5.4 t in 2012/13). ‘Emissions per product’ also noticeably decreased (from 2.3 kg in 2007 to 1.6 kg in 2012/13).

Economic Intensity Ratios per Region

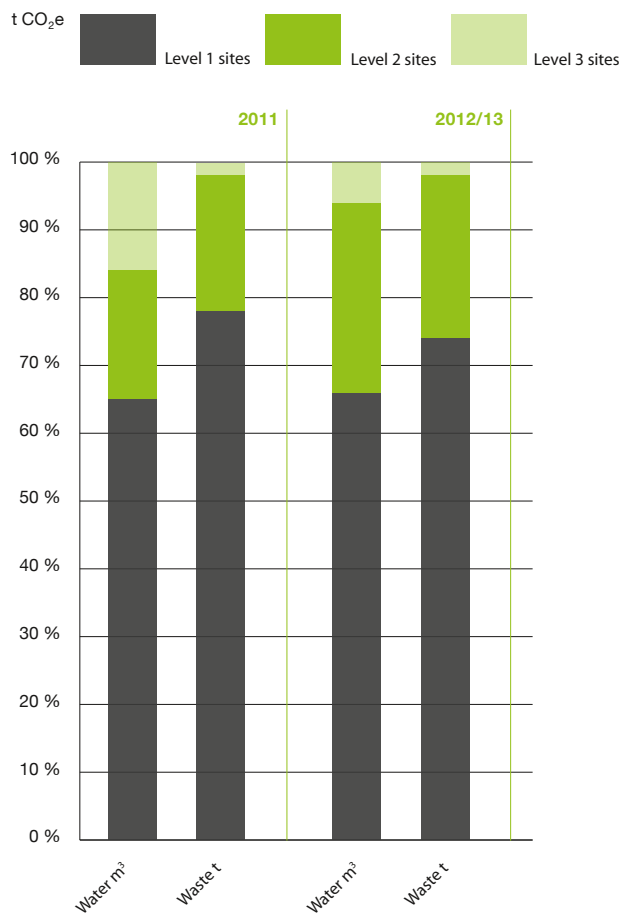
Looking at emissions per turnover, a strong trend towards a more 'carbon-efficient' performance is observable in the Asia-Pacific and North America regions (mainly between 2007–2011). This is in response to a combination of higher sales and increased energy efficiency. In EMEA, emissions per turnover have not changed significantly in recent years while in South America emissions per turnover appear to be rising slightly.



Water, Waste and Use of Chemicals

Landis+Gyr Group reduced its water consumption by 21% to 132,710 m³ in 2012/13 (2011: 167,239 m³). Thereof 94% was used by level 1 (production and major R&D centers) and level 2 (smaller production facilities) sites. In parallel the amount of waste was reduced by 7% to 2,164 t in 2012/13 (2011: 2,319 t). Thereof 98% came from level 1 and 2 sites.

Looking ahead, reducing waste and the usage of chemicals remains a high priority. A set of globally valid key performance indicators and the redesign of product manufacturing processes will support the Group in its efforts to further reduce these parameters.



absolute years	2011		2012/13	
	water m ³	waste t	water m ³	waste t
Level 1 sites	107963	1811	86986	1605
Level 2 sites	32571	474	37480	509
Level 3 sites	26705	34	8244	50
Total	167239	2319	132710	2164

in % values				
Level 1 sites	65%	78%	66%	74%
Level 2 sites	19%	20%	28%	24%
Level 3 sites	16%	1%	6%	2%
Total	100%	100%	100%	100%
Total Level 1+2	84%	99%	94%	98%

One Goal – Many Supporters Around the Globe

Each of Landis+Gyr's 5,300 employees plays a key role in the Company's constant pursuit of innovations and advances in sustainability by leveraging economic, social and environmental aspects of their individual tasks and challenges. With regard to the responsible use of natural resources and the protection of the environment, Landis+Gyr counts on a number of people around the globe who are highly committed and motivated to achieve and advance the Company's goals. Their efforts are coordinated by Hans Sonder, Director Technology Management and Process Excellence at the Group's headquarters in Zug, Switzerland.



“At the Brazilian operations we pursue a comprehensive and pro-active approach towards sustainability issues. As responsible for the Environmental Management System I develop and design new concepts to bring our local needs into alignment with Toshiba’s and Landis+Gyr’s worldwide environmental goals.”

Naiana Conto, Environmental Specialist, Landis+Gyr, Curitiba-Paraná, Brazil



“Being responsible for the Integrated Management System, including quality, social and environmental aspects, I encourage and educate local communities and actively participate in environmental bodies so we can reduce our carbon emission footprint.”

Vivek Namboodiripad, Deputy General Manager Quality Assurance, Landis+Gyr Kolkata, India



“The implementation of our Greening by Technology vision will improve our environmental performance throughout the lifecycle of our products. Based on our analysis we develop and integrate advances ranging from the product’s specification all the way through to its marketing strategy.”

Stefan Fischer, Head of Product Management Heat Metering, Landis +Gyr Nuremberg, Germany

Natali Reimer, Product Management Heat Metering, Landis +Gyr Nuremberg, Germany



“Full compliance with the applicable health, safety and environmental regulations and standards is important for the reliability and reputation of our products and services in the market.”

Gina Collier, Integrated Management System Engineer, Landis+Gyr Stockport, UK



“We are committed to assuring our Company is a leader in environmental affairs, serving the communities where we live and work, by reducing our carbon footprint and providing an example for others to follow.”

Don Roberts, Director of Environmental, Health, Safety and Quality Systems, Landis+Gyr North America

Emilio Sonderegger, Supervisor of Environment and Safety Programs, Landis+Gyr Reynosa Mexico

John Mastarone, Manager of Environmental, Health, Safety and Quality Systems, Landis+Gyr Products Division, Lafayette Indiana, USA



Appendix

Table 1: Global Energy Consumption of Landis+Gyr Group in 2012/13

Energy consumption		L&G	AP	EMEA	NA	SA
Electricity (national grid mix)–daytime	[MWh]	27,797	4,079	10,579	11,375	1,764
Electricity (national grid mix)–nighttime	[MWh]	1,642	–	1,208	434	–
Electricity (renewable sources)	[MWh]	185	120	65	–	–
Electricity by on-site power generator	[MWh]	236	183	51	1	–
Steam (district heating)	[MWh]	2,945	–	2,945	–	–
Heavy fuel oil	[MWh]	145	–	145	–	–
Light fuel oil	[MWh]	96	–	96	–	–
Emergency power diesel	[MWh]	901	812	6	83	–
Town gas (natural gas)	[MWh]	4,625	871	2,126	1,628	–
LPG (50/50)	[MWh]	1	–	–	1	–
LPG (70/30)	[MWh]	184	–	–	–	184
Process emissions						
CO ₂	[kg]	–	–	–	–	–
CH ₄	[kg]	1,622	–	1,622	–	–
N ₂ O	[kg]	–	–	–	–	–
HFC	[kg]	8	–	8	–	–
PFC	[kg]	–	–	–	–	–
SF ₆	[kg]	–	–	–	–	–
Business Travel (own fleet)						
Gasoline consumption	[m ³]	1,292	5	172	1,115	–
Diesel consumption	[m ³]	183	–	183	0	–
CNG consumption	[m ³]	3	–	3	–	–
Alcohol consumption	[m ³]	–	–	–	–	–
Gasoline (<1.4l)	[km]	40,266	36,000	4,226	–	–
Gasoline (1.4–2.0l)	[km]	308,882	48,200	260,682	–	–
Gasoline (>2.0l)	[km]	340,832	139,991	195,956	4,886	–
Diesel (1.4–2.0l)	[km]	546,391	51,494	494,897	–	–
Diesel (>2.0l)	[km]	233,032	19,551	209,755	3,726	–
Truck Diesel (7.5t)	[km]	–	–	–	–	–
Business Travel (other)						
Airplane (short haul)	[pkm]	4,745,309	1,560,607	981,179	375,338	1,828,185
Airplane (long haul)	[pkm]	39,318,405	11,008,413	11,076,536	16,270,354	963,103

Table 2: Total Group Emissions, by Scope and Source (t CO₂e)

The table illustrates the contribution of individual energy sources to the global carbon footprint: Electricity and district heating is the major contributor, accounting for 67% of the company's total emissions.

On-site consumption of natural gas and other fuels accounts for an only minor part of overall GHG emissions.

Scope 1	2007	2008	2009	2010	2011	2012/13	Reduction
Heavy fuel oil	542	545	32	107	33	42	
Light fuel oil	81	55	77	45	56	26	
Emergency power diesel	675	1'031	827	793	729	685	
Natural gas	878	1'054	1'163	1'058	957	941	
LPG (50/50)	117	64	35	47	37	0	
LPG (70/30)	24	78	61	37	41	43	
Process emissions	157	242	304	350	182	52	
Gasoline consumption	3,130	3,346	3,484	2,958	2,544	3,035	
Diesel consumption	1,198	1,282	561	455	511	489	
Gasoline (<1.4l)	2	17	21	0	1	6	
Gasoline (1.4–2.0l)	74	112	122	452	240	58	
Gasoline (>2.0l)	145	202	193	177	131	85	
Diesel (1.4–2.0l)	67	99	126	160	176	78	
Diesel (>2.0l)	44	29	14	40	45	46	
CNG (1.4–2.0l)	0	0	0	0	6	0	
Truck Diesel (7.5t)	10	21	37	0	0	0	
Total (t CO₂e)	7,142	8,177	7,057	6,680	5,690	5,585	-1.8%
Scope 2	2007	2008	2009	2010	2011	2012/13	Increase
Electricity	26,916	23,941	22,924	23,251	23,387	22,018	
District heating	847	756	846	725	746	851	
Total (t CO₂e)	27,762	24,698	23,770	23,976	24,133	22,869	-5.2%
Scope 3	2007	2008	2009	2010	2011	2012/13	Increase
Airplane (short haul)	973	1,969	619	566	705	935	
Airplane (long haul)	4,547	4,668	4,014	4,016	4,532	4,532	
Total (t CO₂e)	5,521	6,637	4,633	4,582	5,237	5,467	4.4%
By source	2007	2008	2009	2010	2011	2012/13	Reduction
Electricity/ district heating	27,762	24,698	23,770	23,976	24,133	22,869	
Fuels (diesel oil)	1,298	1,631	936	945	818	752	
Fuels (natural gas, LPG)	1,019	1,196	1,258	1,143	1,036	984	
Direct process emissions	157	242	304	350	182	52	
Road travel	4,669	5,108	4,560	4,242	3,654	3,797	
Air travel	5,521	6,637	4,633	4,582	5,237	5,467	
Total (t CO₂e)	40,425	39,512	35,460	35,238	35,060	33,921	-3.2%

Table 3: Carbon Footprint for the Four Regions, 2009–2012/13

	AP					EMEA				
	2008	2009	2010	2011	2012/13	2008	2009	2010	2011	2012/13
Scope3	1,161	987	1,094	1,236	1,576	2,100	1,426	1,371	1,477	1,470
Scope2	6,925	5,637	6,126	5,423	4,719	8,817	8,014	8,117	7,985	8,189
Scope1	1,486	1,167	1,094	970	866	3,270	2,028	2,023	1,524	1,659

	NA					SA				
	2008	2009	2010	2011	2012/13	2008	2009	2010	2011	2012/13
Scope3	1,976	1,821	1,771	2,009	1,949	1,401	399	348	515	471
Scope2	7,626	9,144	8,580	9,427	8,728	1,329	975	1,152	1,298	1,234
Scope1	3,166	3,638	3,530	3,158	3,017	256	224	33	38	43

Table 4: Carbon Footprint and Percentage Contribution of the Four Regions

Region	2008		2009		2010		2011		2012/13	
	tCO ₂ e	%	tCO ₂ e	%	tCO ₂ e	%	tCO ₂ e	%	tCO ₂ e	%
AP	9,571	24.2%	7,791	22.0%	8,314	23.6%	7,629	21.8%	7,161	21.1%
EMEA	14,187	35.9%	11,468	32.3%	11,510	32.7%	10,985	31.3%	11,318	33.4%
NA	12,768	32.3%	14,603	41.2%	13,881	39.4%	14,594	41.6%	13,694	40.4%
SA	2,986	7.6%	1,598	4.5%	1,533	4.3%	1,852	5.3%	1,748	5.2%
Total	39,512	100.0%	35,461	100.0%	35,238	100.0%	35,060	100.0%	33,921	100.0%

**Table 5: Individual Greenhouse Gases
Emitted by Landis+Gyr Group in 2012/13**

Scope 1	CO₂ (t)	CH₄ (t)	N₂O (t)	SF₆ (t)	HFC (t)	PFC (t)
Heavy fuel oil	41.50	0.00	0.00	0.00	0.00	0.00
Light fuel oil	25.57	0.00	0.00	0.00	0.00	0.00
Emergency power diesel	681.04	0.03	0.01	0.00	0.00	0.00
Natural gas	935.79	0.05	0.01	0.00	0.00	0.00
LPG (50/50)	0.13	0.00	0.00	0.00	0.00	0.00
LPG (70/30)	41.74	0.04	0.00	0.00	0.00	0.00
Gasoline consumption	3,014.38	0.03	0.07	0.00	0.00	0.00
Diesel consumption	486.12	0.00	0.01	0.00	0.00	0.00
CNG consumption	0.01	0.00	0.00	0.00	0.00	0.00
Alcohol consumption	0.00	0.00	0.00	0.00	0.00	0.00
Gasoline (<1.4l)	4.27	0.00	0.00	0.00	0.00	0.00
Gasoline (1.4 - 2.0l)	42.09	0.00	0.01	0.00	0.00	0.00
Gasoline (>2.0l)	62.37	0.00	0.00	0.00	0.00	0.00
Diesel (1.4 - 2.0l)	64.47	0.00	0.01	0.00	0.00	0.00
Diesel (>2.0l)	38.05	0.00	0.00	0.00	0.00	0.00
Truck Diesel (7.5t)	0.00	0.00	0.00	0.00	0.00	0.00
Process emissions	0.00	2.31	0.00	0.00	0.20	0.00
Scope 2						
Electricity (national grid mix)	21,755.62	1.37	0.34	0.00	0.00	0.00
Total	27,213.16	1.53	0.45	0.00	0.00	0.00

Note that not all emissions data is split up into the Kyoto gases. This is why the total in this table differs from the Group's total emissions.



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