NIELSEN GLOBAL ENVIRONMENTAL POLICY AND GUIDELINES ACROSS FUNCTIONS
OUR VISION

Sustainable options are a fundamental part of the decision making process at an individual and organizational level throughout Nielsen.

OUR MISSION

To continuously identify, bring awareness to, and advocate for, sustainable options in an effort to manage and reduce Nielsen's impact on the environment by driving operational efficiencies.
CONTENTS

ENVIRONMENTAL POLICY .................................................................4
NIELSEN GREEN SPOTLIGHT .........................................................4
UNDERSTANDING WHAT’S CRITICAL .............................................5
DATA COLLECTION ........................................................................7
OUR MATERIAL AREAS .................................................................7
OUR ENVIRONMENTAL SUSTAINABILITY GOALS ....................10
OUR ENVIRONMENTAL FOOTPRINT & RESOURCE USAGE ..........10
TAKING ACTION .............................................................................19

ENVIRONMENTAL GUIDELINES ACROSS FUNCTIONS .................22
REAL ESTATE .................................................................................22
GLOBAL PROCUREMENT ..............................................................23
BUSINESS DEVELOPMENT ...........................................................25
TRAVEL & EXPENSE .....................................................................25
INDUSTRY PARTNERSHIPS & EVENTS ...........................................26
TECHNOLOGY & INFRASTRUCTURE .............................................26
ENGINEERING .............................................................................29

VERIFICATION STATEMENTS .......................................................31
ENVIRONMENTAL POLICY

The vitality of our business is closely linked to the health of the markets and communities where we operate. When they are vibrant and growing, so is our business. Sound environmental management is central to the health of our business and operations over the long-term. We recognize that it is also important to our employees, clients, the communities in which we live and work, and our other stakeholders. This commitment comes to life in protecting and restoring our natural environment by better managing our resources.

In addition to compliance with laws and regulatory requirements, we seek to continually reduce the adverse environmental effects of our products and services during design, creation, use and overall lifecycle management. We also recognize the unique power of our data and insights; through our wide-ranging tools and services focused on innovation and predicting future consumer needs and preferences, we can help our clients maximize their resources while minimizing waste.

With that, we aim to collaborate with our clients and other stakeholders to facilitate a lower carbon economy based on the intelligent use of information and technology. We also engage and collaborate with our supplier network to improve their overall performance and minimize the environmental impact of our business. Overall, we communicate proactively and openly with our stakeholders about our environmental commitments and performance, and we encourage them to share their feedback with us on an ongoing basis.

NIELSEN GREEN SPOTLIGHT: OUR ENVIRONMENTAL SUSTAINABILITY STRATEGY

We are fully committed to driving environmental awareness globally, and pursuing opportunities that will allow for the most substantial impact on our footprint. Nielsen’s environmental sustainability strategy focuses on three key areas:
Infrastructure: Identify and establish foundational tools and processes for our offices, data centers, and people to facilitate and encourage Awareness and Advocacy.

Awareness: Facilitate associate and stakeholder engagement, participation and commitment to Nielsen’s sustainability program.

Advocacy: Identify and champion opportunities to efficiently manage and reduce Nielsen’s resource consumption and footprint.

UNDERSTANDING WHAT’S CRITICAL

Our non-financial materiality assessments continue to highlight certain focus areas as fundamental “table stakes” for a company to drive sustainable operations. For us these include, but are not limited to, Energy, Business Travel & Waste as the primary material areas for our environmental strategic focus. These assessment processes incorporate input and feedback from internal and external stakeholders like our associates, suppliers, and external advocacy groups; among other inputs, this feedback helps determine the environmental issues that are most critical to our business, and where we have the ability to make a direct impact.

We have set key performance indicators (KPIs) relating to these three key aspects of our environmental performance, with a roadmap that aims to achieve continual improvements.

In recognition of both the reality of climate change and the opportunities for increased efficiency and effectiveness that it presents, we also completed our first global climate risk assessment in early 2018 to identify Nielsen’s climate-related physical and transitional risks.

By investigating physical risks, we aimed to uncover how business assets integral to our operations, such as our facilities, may be affected by extreme weather events (e.g., “super storms”, hurricanes, etc.) and changing climate patterns (e.g., increasing drought, heat waves, sea-level rise, etc.). By looking at transitional risks, we aimed to identify the potential financial implications
associated with regulatory pressures related to climate change (e.g., carbon taxes, emission caps, investing in new technology, etc.) as well as potential reputational risks.

Since the completion of this climate risk assessment, we have engaged with teams across areas including Global Responsibility & Sustainability, Real Estate/Facilities, Security, Business Resiliency, Risk & Insurance, Technology, Global Procurement, Architecture and Infrastructure, to understand relevancy and determine the impact of our findings for each. As we build on these results and integrate the findings into our ongoing strategy across internal operations, we also continue to measure the impact of climate change, and implement resiliency measures that will secure our business and associates’ safety in the face of potential exposure to risk.

**OUR PEOPLE: GREEN TEAMS**

We empower our associates to identify, lead and participate in environmental projects that are unique to our business and footprint. We endeavor to maintain awareness and ensure understanding of environmental issues among our employees, and encourage environmentally responsible behavior. To that end, we invite associates to explore environmental opportunities at the grassroots level, encouraging employees to come together as “Green Teams” to drive initiatives.

Nielsen associates in offices around the world take a hands-on approach when it comes to taking care of their environment. Since September 2013, there has been an increase of over 300% in the number of offices that are represented by Green Teams: voluntary groups of associates who lead grassroots initiatives to reduce our carbon footprint in our offices around the globe. Through simple but impactful initiatives, Green Teams are changing our behavior and interaction with the environment every day.

In recent years, Green Teams have implemented a number of unique initiatives. Our laptop donation program, for example, is run by leaders across multiple Green Teams. At our Oldsmar facility in Florida, the Green Team oversaw the installation of an electric car charging station. Elsewhere, Green Teams have installed low-flow faucets and shower heads, dry urinals and dual-flush toilets in our offices; instituted the practice of shutting off lights for an hour every afternoon during peak electricity usage; changed out light switches to those that have timers and motion-detecting sensors; instituted duplex printing; switched from disposable cups to reusable mugs; and established recycling and composting systems. In addition, our Los Angeles office’s Green Building certification was spearheaded by the Green Team. Nielsen honors Green Team contributions through our internal Simply Excellent recognition program.
DATA COLLECTION

By focusing on collecting data and metrics, Nielsen is able to build a strong baseline to support and drive our global environmental strategy.

In 2015, Nielsen adopted a tiered approach to the collection process, establishing a plan to expand our tracking and reporting of greenhouse gas (GHG) emissions by region. Our 2015 data collection focused on North America, expanding to Latin America and Europe by 2016 and 2017, respectively. Starting in 2018, we expanded our data collection coverage to all Nielsen regions. While we have not yet reached 100% coverage of all facilities or measurement categories, we approach this effort with a spirit of continuous improvement to expand our coverage year-over-year in order to strengthen our baseline and achieve a more holistic understanding of our global environmental footprint.

In 2018, we onboarded a new tool for our greenhouse gas (GHG) emissions calculations and resource management: Portfolio Environmental & Energy Reporting System (PEERS). PEERS is a proprietary energy management tool developed by our global real estate services provider, Jones Lang LaSalle (JLL), to capture, analyze and report energy data. A third-party utility bill processor, ProKarma, was retained to enter utility bill data into a database which is then electronically conveyed from ProKarma into PEERS. We use the Greenhouse Gas Protocol guidelines to align our data collection and reporting.

All data reported here and in our other public reports has been verified by an external third-party. The verification statements are included in the Verification Statements of this document.

OUR MATERIAL AREAS

As mentioned, our non-financial materiality assessment affirmed Waste, Energy & Business Travel as our three key material issues in the environmental sustainability space to focus on.

WASTE MANAGEMENT:

• Within this area, we promote strategies and programs to reduce landfill waste, particularly electronic waste (e-waste). Nielsen continues to investigate environmentally efficient waste disposal options in every facility.

• We require all vendors retained to assist in the transfer or disposal of waste (including e-waste) to comply with the sustainability terms of this policy. Where Nielsen waste is to be physically discarded, disposal must be to an appropriate recycling, composting or landfill center that will assume legal and environmental responsibility, and provide a certificate of disposal.
• Nielsen works with vendors such as Ingram Micro Commerce & Lifecycle Services (previously CloudBlue) for our information technology (IT) asset disposal.

• **Paper consumption** is one of the most prominent areas of focus for our waste management efforts. Our initiatives include:

  • **Duplex Printing**: Nielsen has a standard global duplex printing policy for all current printers, with a commitment to use our refresh process to move old printers to enable duplex printing.

  • **Paper purchase**: Nielsen's trended paper purchase data is shown in the "Waste Generation" section below. Given our tiered data collection approach (as mentioned in the "Data Collection" section), we do not yet have global historical data coverage.

    There have been significant shifts in our paper purchase data in a few regions. As we investigate these changes, initiatives in countries like Russia stand out. Some of the efforts taken by Green Teams in Russia to reduce paper consumption include: restricting color printing to specific associates in the office, central control of all paper purchases, and implementing electronic collection of data by our field employees there.

  • **Paper suppliers**: As with all spend categories, we seek out responsible vendors. One of Nielsen’s largest paper suppliers for North America, Xerox, has ISO 14001 certification for all of its manufacturing sites. Xerox has evaluated emissions issues with toners, and they use power-down features in their equipment to save energy.

  • **Travel & Expense (T&E) Online Processing**: In 2014, our expense reporting process was moved online to avoid the use of paper receipts. By the end of 2017, 100% of our expense reports in North America and Canada were moved to online processing. And in July 2018, a new T&E online portal was rolled out to all markets. The T&E system now includes functionality for both travel booking and expense reporting, creating a true end-to-end T&E solution which also reduces our paper usage across the board.

  • **Online W-2 Forms**: At the end of 2017, we moved to providing W-2 (tax forms) online, instead of mailing them to our associates. Almost 5,000 associates in our North America region have signed up since its launch, representing close to 50% of our employee population there.

Learn more about Nielsen’s paper management, and overall waste management in the “Our Environmental Footprint and Resource Usage” section.
2 ENERGY MANAGEMENT:

The main environmental impact of our operations is energy use in our office buildings and data centers. We are focused on developing innovative and pragmatic solutions for mitigating our impacts, including low-power consumption and minimizing our use of materials. We also continue to drive focus on creating more energy-efficient spaces for our offices, such as those that use more efficient light-emitting diode (LED) lighting.

A bright spot in this area is our server optimization and virtualization, storage refresh and data center consolidation initiatives, which have seen a 70% reduction in energy consumption.

3 TRAVEL:

For Nielsen, responsible travel means incorporating social responsibility and environmental sustainability into the way we select and manage our travel suppliers. As a company, we annually issue about 50,000 airline tickets, and our associates spend over 80,000 nights in hotels each year. Our Global Travel & Procurement team manages our travel suppliers—including airlines, ground transportation providers, hotels and others—in order to provide the best possible value to our Nielsen associates and to ensure that we're focused on responsible resource management and environmental sustainability in the way that we travel.

We aim to reduce our carbon emissions by focusing on ways to optimize and offset business travel. Our efforts in this space include:

- Leveraging virtual meeting technology through teleconferencing whenever possible.
- Incorporating customized messaging into our corporate travel online booking tool to remind associates to consider travel alternatives and videoconferencing options before making any reservations.

Over the last two years, we have seen a gradual decline in global air travel miles and carbon emissions. Since 2016, we’ve seen a 6% reduction in air travel, which translates to an approximately 7% reduction in carbon emissions. We continue to actively identify opportunities to reduce our travel emissions wherever possible.

To further address the importance of sustainability in our approach to travel as a company, we’ve set some new goals. First, to include sustainability criteria in 100% of our centrally managed, global travel requests for proposal (RFPs). Second, to engage 100% of our travel suppliers on overall sustainability practices, including formal, third-party assessments for 80% of our centrally-managed travel suppliers on environmental, social and governance practices. And third, to collect baseline data for greenhouse gas emissions for air, rental car and hotel suppliers where available.
OUR ENVIRONMENTAL SUSTAINABILITY GOALS

Our goals in the area of environmental sustainability are based on the relevant needs and realities of the three most material areas where we have dedicated the majority of our resources in this space:

- **Energy:** Reduce global energy use per square foot of facility space by up to 5% by 2020.

- **Energy:** By the end of 2019, we plan to upgrade our live data storage in our data centers to all-flash for energy reduction and enhanced efficiency.

- **Waste:** Ensure that virtually none of our global e-waste is sent to landfills by 2020.

- **New in 2019** Travel: Include sustainability criteria in 100% of centrally managed, global travel requests for proposals (RFPs).

- **New in 2019** Travel: Engage 100% of our travel suppliers on overall sustainability practices. Along with this, we will formally assess 80% of our centrally managed travel suppliers on environmental, social and governance (ESG) practices through our third-party sustainability scorecard process.

OUR ENVIRONMENTAL FOOTPRINT & RESOURCE USAGE

In 2018, we onboarded a new tool for our greenhouse gas (GHG) emissions calculations and resource management: Portfolio Environmental & Energy Reporting System (PEERS). The PEERS tool uses a different methodology than what we have used for all past reporting. In order to properly align energy use to the timing of weather and site operations, PEERS translates (i.e., normalizes) reported consumption that is reflected in utility bills to the start and the close of each month. In previous years of reporting, only the months of January and November were normalized due to the timing of reporting obligations. As we evolve our methodology in using PEERS as our new data collection and processing tool, all work continues to be done in accordance with the Greenhouse Gas Protocol.
To normalize consumption, PEERS divides the billed consumption by the number of days in the billing period to determine the average daily consumption. The daily average is then multiplied against the number of days in each month that the bill straddles in order to arrive at the portion of the consumption that should be assigned to each month. In most cases, this approach results in two successive utility bills providing consumption data for one calendar month; care is taken to avoid accidentally double-counting emissions across multiple months.

GHG EMISSIONS

We utilize the Greenhouse Gas Protocol to report our carbon impact.

SCOPE I

Scope 1 GHG emissions are direct emissions that come from sources owned or controlled by the reporting entity. For Nielsen, this primarily includes generator fuel and natural gas.

SCOPE I GREENHOUSE GAS EMISSIONS

Data in Metric Tons CO2e

<table>
<thead>
<tr>
<th>Year</th>
<th>Emissions</th>
</tr>
</thead>
<tbody>
<tr>
<td>2016</td>
<td>1,149.62</td>
</tr>
<tr>
<td>2017</td>
<td>709.52</td>
</tr>
<tr>
<td>2018</td>
<td>861.38</td>
</tr>
</tbody>
</table>

Square feet represented by emissions

2016: 1,747,895 (32% of total Nielsen sq. ft. in 2016)
2017: 1,471,979 (26% of total Nielsen sq. ft. in 2017)
2018: 1,201,174 (19% of total Nielsen sq. ft. in 2018)

2016 represents North America & LatAm
2017 represents North America, LatAm & Europe
2018 represents all Nielsen regions
SCOPE 2

Scope 2 GHG emissions are indirect emissions from consumption of purchased electricity, heat or steam. For Nielsen, this primarily includes purchased electricity. Starting in 2016, we began reporting on market-based scope 2 emissions, in addition to our location-based scope 2 emissions. Market-based emissions include any green energy investments a company has made in its reporting period (e.g., renewable energy credits).

SCOPE 2 GREENHOUSE GAS EMISSIONS

<table>
<thead>
<tr>
<th>Year</th>
<th>Location-based Emissions</th>
<th>Market-based Emissions</th>
</tr>
</thead>
<tbody>
<tr>
<td>2016</td>
<td>31,101.50</td>
<td>29,099.90</td>
</tr>
<tr>
<td>2017</td>
<td>29,099.90</td>
<td>25,662.55</td>
</tr>
<tr>
<td>2018</td>
<td>24,301.62</td>
<td>24,301.62</td>
</tr>
</tbody>
</table>

Square feet represented by emissions

- 2016: 2,776,087 (51% of total Nielsen sq. ft. in 2016)
- 2017: 3,020,328 (53% of total Nielsen sq. ft. in 2017)
- 2018: 3,003,265 (49% of total Nielsen sq. ft. in 2018)

2016 represents North America & LatAm
2017 represents North America, LatAm & Europe
2018 represents all Nielsen regions

SCOPE 3

In 2016, we started tracking our Scope 3 GHG emissions, mainly focusing on our global business travel (Category 6 of the Greenhouse Gas (GHG) Protocol Scope 3 Standard). Since 2018, we have been in the process of investigating the relevance of all other Scope 3 categories for our business, as we seek to fully understand the scale of their collective impact. As part of our due diligence process, we have worked across our internal teams, such as Global Procurement, Finance and Real Estate, to understand the emissions’ implications of our supply chain and to determine the applicability of each category.

For 2019 reporting [of our 2018 data], Nielsen engaged with a third-party to expand our Scope 3 representation across our entire corporate value chain. Based on the relevance and impact established for each category, we have formalized our overall Scope 3 collection strategy for a complete and accurate measurement of our emissions.
The total Scope 3 emissions from Nielsen’s value chain for 2018 are 615,382 tCO2e.

Business Travel (Category 6) and Employee Commuting (Category 7) were calculated by Nielsen, and provided to the third-party for inclusion in overall Scope 3 emissions. Partial waste data (Category 5) also came from Nielsen’s data collection, but represented only 2% of our global footprint. The third-party vendor then extrapolated to represent 100% Nielsen facilities.

The table below shows the relevancy of each Scope 3 category, the actual emission for each, and its percentage of total emission.

<table>
<thead>
<tr>
<th>SCOPE 3 CATEGORY</th>
<th>NAME OF CATEGORY</th>
<th>EVALUATION STATUS</th>
<th>CATEGORY EMISSIONS (tCO2e)</th>
<th>% OF TOTAL EMISSIONS</th>
<th>ADDITIONAL INFORMATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Category 1</td>
<td>Purchased goods &amp; services</td>
<td>Relevant; Calculated</td>
<td>434,639</td>
<td>71%</td>
<td>Based on Nielsen’s business sectors and revenue data.</td>
</tr>
<tr>
<td>Category 2</td>
<td>Capital goods</td>
<td>Relevant; Calculated</td>
<td>42,974</td>
<td>7%</td>
<td></td>
</tr>
<tr>
<td>Category 3</td>
<td>Fuel-and-energy related activities</td>
<td>Relevant; Calculated</td>
<td>11,916</td>
<td>2%</td>
<td></td>
</tr>
<tr>
<td>Category 4</td>
<td>Upstream transportation &amp; distribution</td>
<td>Relevant; Calculated</td>
<td>14,730</td>
<td>2%</td>
<td></td>
</tr>
<tr>
<td>Category 5</td>
<td>Waste generated in operations</td>
<td>Relevant; Calculated</td>
<td>10,182</td>
<td>2%</td>
<td>Nielsen’s waste data collection represented 2% of global square footage. Total emissions (covering 100% of the square footage) was extrapolated from primary data collected.</td>
</tr>
<tr>
<td>Category 6</td>
<td>Business travel</td>
<td>Relevant; Calculated</td>
<td>18,551</td>
<td>3%</td>
<td>The business travel data has been verified by a third-party. See ‘Verification Statements’.</td>
</tr>
<tr>
<td>Category 7</td>
<td>Employee commuting</td>
<td>Relevant; Calculated</td>
<td>49,838</td>
<td>8%</td>
<td>The employee commuting data has been verified by a third-party. See ‘Verification Statements’.</td>
</tr>
<tr>
<td>Category 8</td>
<td>Upstream leased assets</td>
<td>Relevant; Calculated</td>
<td>32,553</td>
<td>5%</td>
<td>Based on Nielsen’s data on leased office space square footage and average intensities for energy consumption to obtain total consumption by energy source for each office.</td>
</tr>
<tr>
<td>Category 9</td>
<td>Downstream transportation &amp; distribution</td>
<td>Not relevant, not calculated</td>
<td></td>
<td></td>
<td>Nielsen does not produce goods for onward processing, nor large amount of goods that need to be physically transported to customers.</td>
</tr>
<tr>
<td>Category 10</td>
<td>Processing of sold products</td>
<td>Not relevant, not calculated</td>
<td></td>
<td></td>
<td>Nielsen does not sell or lease any physical products to our customers that consume energy and/or if disposed, would lead to significant emissions.</td>
</tr>
<tr>
<td>Category 11</td>
<td>Use of sold products</td>
<td>Not relevant, not calculated</td>
<td></td>
<td></td>
<td>Nielsen does not have any major downstream leased assets.</td>
</tr>
<tr>
<td>Category 12</td>
<td>End-of-life treatment of sold products</td>
<td>Not relevant, not calculated</td>
<td></td>
<td></td>
<td>Nielsen does not have any major downstream leased assets.</td>
</tr>
</tbody>
</table>
As next steps, Nielsen will take the findings forward with our internal and external stakeholders, to identify collaborative efforts that will help manage and minimize our greenhouse gas emissions across the Scope 3 categories. Establishing reduction targets will be part of these discussions.

**BUSINESS TRAVEL MILES**

Within the category of business travel, the initial focus was on air travel only. The data below represents air travel reservations made through our American Express Business Travel tool and does not include any direct or separate agency bookings. In 2019, we are expanding our reporting coverage (representing 2018 data) as it relates to other metrics within business travel, including rail and rental cars.

**NIELSEN GLOBAL TRAVEL MILES BY AIR**

![Graph showing Nielsen Global Travel Miles by Air](image)

*Note: This data ONLY represents booking made via American Express Business Travel tool. This does NOT include any direct or separate agency booking, including online agencies such as Expedia, Orbitz, etc. Currently, Nielsen does not have accurate measurements of the spend outside the tool.

Source: Concur tool

**EMPLOYEE COMMUTING**

For the category of employee commuting, we have used the Distance-Based method, which involves collecting data from employees on their commuting patterns (e.g., distance traveled and their mode of commuting). Employee level data for 2018 was collected through a global commuting survey that ran from January through February 2019. The data was then weighted to make a representative sample of our global headcount; emission factors

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<table>
<thead>
<tr>
<th>Category 14</th>
<th>Franchises</th>
<th>Not relevant, not calculated</th>
<th>Nielsen does not have franchises.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Category 15</td>
<td>Investment</td>
<td>Not relevant, not calculated</td>
<td>Nielsen is not engaged in financial services.</td>
</tr>
</tbody>
</table>
were then applied to reach our final emissions. Total emissions from employee commuting in 2018 were 49,838 metric tonnes CO2e.

ADDITIONAL RESOURCE MEASUREMENT

ELECTRICITY CONSUMPTION

We saw an 8% decrease in energy consumption between 2017 and 2018. This is measured on a per square footage basis, using our total global real estate portfolio. As the scope of our global data collection continues to evolve over time, our consumption levels will fluctuate as we move towards a more complete and accurate picture of our consumption. In 2017, Nielsen’s electricity data represented 3,020,328 square feet (of total global portfolio of 5,696,323 square feet) which represents 0.53KWH/sq. ft. In 2018, Nielsen’s electricity data represented 3,003,265 square feet (of total global portfolio of 6,178,044 square feet) which represents 0.49KWH/sq. ft.

ELECTRICITY CONSUMPTION

Data in KWH

<table>
<thead>
<tr>
<th>Year</th>
<th>Abs KWH Consumption</th>
</tr>
</thead>
<tbody>
<tr>
<td>2016</td>
<td>66,951,695.94</td>
</tr>
<tr>
<td>2017</td>
<td>63,611,467.87</td>
</tr>
<tr>
<td>2018</td>
<td>60,027,815.03</td>
</tr>
</tbody>
</table>

Square feet represented by consumption
- 2016: 2,776,087 (51% of total Nielsen sq. ft. in 2016)
- 2017: 3,020,328 (53% of total Nielsen sq. ft. in 2017)
- 2018: 3,003,265 (49% of total Nielsen sq. ft. in 2018)

2016 represents North America & LatAm
2017 represents North America, LatAm & Europe
2018 represents all Nielsen regions
WASTE GENERATION

Our reported waste metrics consist primarily of landfill waste, excluding composting and recycling. Nielsen continues to look at the local and regional infrastructure available to us to establish responsible waste management (such as setting up and/or properly separating different waste streams) in our global offices. However, for collection and reporting purposes, all waste is assumed to be landfill in locations where recycling and/or composting are not yet set up or clearly separated.

Square feet represented by data
2016: 408,917 (7% of total Nielsen sq. ft. in 2017) 2016 represents North America & LatAm
2017: 242,527 (4% of total Nielsen sq. ft. in 2017) 2017 represents North America, LatAm & Europe
2018: 139,707 (2% of total Nielsen sq. ft. in 2018) 2018 represents all Nielsen regions
ELECTRONIC WASTE (E-WASTE)

E-Waste is a prioritized area of focus for Nielsen's waste management work. We have a committed goal of ensuring that none of our e-waste goes to landfill, and is disposed of in a responsible manner.

Below are Nielsen's trended numbers from this source (CE=Carbon Emissions).

In 2018, we saved about $443,100 in resources *. This amounted to avoiding:

- 653,556 kilograms (kg) of CE in GHG emissions;
- 4,348,389 kilowatt hours (kwh) of electricity use;
- 66,880 kg of solid waste; and
- 58,006 kg of water emissions.

In 2017, we saved about $170,447 in resources *. This amounted to avoiding:

- 95,632 kg of CE in GHG emissions;
- 1,672,543 kwh of electricity use;
- 59,041 kg of solid waste; and
- 64,631 kg of water emissions.

In 2016, we saved over $440,000 in resources *. This amounted to avoiding:

- 673,432 kg of CE in GHG emissions;
- 4,359,505 kwh of electricity use;
- 64,382 kg of solid waste; and
- 53,281 kg of water emissions.

*Source: Ingram Micro Commerce & Lifecycle Services
**PAPER MANAGEMENT**

### # of sheets purchased

![Bar chart showing the number of sheets purchased in different regions for different years.](chart.png)

**WATER CONSUMPTION**

While water has not emerged as a significant material area in terms of our direct operations through our non-financial materiality assessment process, we recognize that access to drinkable water is a societal issue that nevertheless affects our world. With this in mind, we strive to minimize the impact from our daily operations on the availability of water resources.

#### WATER CONSUMPTION

**Data in Cubic Meters**

![Bar chart showing water consumption in different years for different regions.](chart.png)

Square feet represented by data:

- 2016: 2,269,668 (41% of total Nielsen sq. ft. in 2016)
- 2017: 1,766,073 (31% of total Nielsen sq. ft. in 2017)
- 2018: 1,531,346 (25% of total Nielsen sq. ft. in 2018)

2016 represents North America & LatAm
2017 represents North America, LatAm & Europe
2018 represents all Nielsen regions
TAKING ACTION

Over the course of each year, Nielsen teams come together to make a substantial impact on our resource management.

• **Earth Week**: Each year, our associates mobilize in honor of the annual celebration of Earth Week around the world. Almost 20,000 associates around the globe came together for five days to celebrate Nielsen’s fifth annual Earth Week in April 2018, leading a range of efforts to elevate our global sustainability impact in their offices and cities. In 2018, we focused on aligning these grassroots efforts with our commitment to send zero electronic waste (e-waste) to landfill, by kicking off the celebration as a Global E-waste Recycling Day. Over 7,000 pounds of electronics were collected for responsible recycling across our offices during this event. As one example of our localized impact, we donated to the “Young EcoLeaders of the Brazilian Rainforest” Global Giving project.

• **World Cleanup Day**: Nielsen celebrated its first World Cleanup Day in September 2018, joining the global movement addressing the challenge of waste. While the focus was clean-up, our inaugural event emphasized the importance of awareness on this topic. Our associates organized 80 events across 36 countries, with over 2,000 hours of volunteer time spent on local clean-up activities ranging from beaches, rivers, parks, to visiting recycling and landfill sites.

• **Trash Blindness Survey (Data for Good)**: Nielsen identified an additional opportunity with Let’s Do It Foundation to further the cause of waste management, where our volunteers engaged in a Data for Good project to lead a pro-Bono Trash Blindness Survey to assess consumer perceptions about trash, and learn about “trash blindness.” Our Data for Good projects are aimed at sharing Nielsen’s consumer insights and data with the world, including non-profit organizations and academic researchers, to make a difference.

• **Laptop donation program**: We continue to deliver on our commitment to divert e-waste from landfills with our laptop donation program, which allows us to refurbish and donate used laptops to nonprofit organizations that need the equipment. Since 2016, we have donated over 550 laptops to various nonprofit organizations.

• **Renewable energy**: Our key European offices are moving to green electricity to power our offices, further reducing our emissions. For example, in Copenhagen, Denmark, we have moved to using wind energy, which positively impacts our office footprint.

• **Green materials**: Our offices around the world have taken a number of small actions that add up to big impact, like replacing paper cups with reusable mugs; implementing recycling and composting programs and replacing single-use water bottles with communal water fountains.
• **Energy-efficient lighting:** In our Honduras, Toronto, and Mexico offices, we have moved to light-emitting diode (LED) lighting, reducing Nielsen’s carbon footprint and increasing our operational efficiency.

• **Green building certifications:** We are proud to have offices in buildings that have been awarded with various green building certifications, including the following office locations:
  
  • Los Angeles, California (North America): Green Biz certification
  • Malaysia (South-East Asia, North Asia, Pacific): GreenRE Bronze certified
  • Tel Aviv, Israel (Europe): LEED Gold pre-certified
  • Chicago, Illinois (North America): LEED Silver certified

• **Office & City Level Collaborations:**

  • **Cincinnati, Ohio (North America):** Our Cincinnati office won the Top Transit-Friendly Destination award, a recognition given by the ‘Green Umbrella,’ a group of nearly 250 companies, non-profit and government organizations throughout Ohio, Kentucky and Indiana. The award was presented at the alliance’s annual Midwest Regional Sustainability Summit at Xavier University in June 2018, with our local Green Team members there to receive it.

  • **Oldsmar, Florida (North America):** Through an annual “Haz-to-go” recycling event, we’ve collected and recycled potentially hazardous e-waste to keep it out of landfills.
    
    2018: Total pounds (lbs) collected for recycling: 1,454
    2017: Total pounds (lbs) collected for recycling: 1,392
    2016: Total pounds (lbs) collected for recycling: 5,300

  • **Green Bay, Wisconsin (North America):** Annual recycling drive generated over 1,480 batteries, 65 paper bags, 83 plastic bags, 398 egg cartons, and 16 mugs.

  • **France (Europe):** The office moved away from using plastic, replacing plastic bowls with glass bowls for in-office use, and swapping out plastic bags for recycled paper bags as a greener alternative.

  • **Madrid, Spain (Europe):** Associates in the Madrid office organized “Project Madrid” a volunteering effort to support local clean-up. They picked up 872 kg of waste in a natural park, which included 68 bags of glass, 9 bags of paper, 28 bags of plastics, cans, and bricks, and 11 bags of non-recyclable waste.
• **Costa Rica, El Salvador, Guatemala, Nicaragua, Honduras and Panamá (Latin America):** Our Green Team associates, in collaborating with the facility leads, moved these offices from using paper cups to reusable cups.

• **Tokyo, Japan (Greater China):** Every month since the beginning of 2015, our Green Team associates have led office-wide clean-up events to reduce waste at the facility, and to promote proper disposal.
ENVIRONMENTAL GUIDELINES ACROSS FUNCTIONS

We have established practices and policies across Nielsen teams to ensure environmental sustainability and impact is considered in all that we do.

REAL ESTATE

WHAT WE DO:

• Provide sound environmental management of our physical resources, primarily for our office spaces.

• Seek to continually reduce the adverse environmental effects of our global Real Estate portfolio, made up of varied types of facilities, including leased floors in office towers and warehouses used for data analytics.

HOW WE DO IT:

• Develop pragmatic solutions to reduce environmental impacts, such as reducing power consumption, reuse and recycling of materials, implementing renewable energy solutions and minimizing our use of unsustainable materials in all facility-based projects.

• Where possible, incorporate environmental considerations into relevant business decision-making processes, such as investing in an HVAC system that may have a high initial cost, but is more environmentally efficient and has a lower running cost.

• Continue to maintain awareness and ensure understanding of environmental issues among our employees to encourage environmentally responsible behavior.

• Engage and collaborate with our suppliers to improve our overall environmental performance. The material specifications with our suppliers have environmental considerations that include, but are not limited to, paint with low VOC (Volatile Organic Compounds), using recycled materials for facility carpets, LEDs (Light Emitting Diode) vs. CFLs (Compact Fluorescent Lamps), etc.
GLOBAL PROCUREMENT

WHAT WE DO:

Our purchasing decisions and supply chain management integrate environmental, social, governance, and ethical criteria along with performance, quality, service, and cost. We aim to limit our company's negative environmental impacts and promote sustainable and responsible growth and innovation in the marketplace.

HOW WE DO IT:

Our procurement and contracting processes include environmental, social, governance and ethical criteria. For all vendors that register through our core accounting systems, we require suppliers to provide company-level information related to sustainability throughout their tenure servicing Nielsen. This information augments our criteria on performance, service, quality, and cost. We will always balance environmental considerations with performance and financial cost. To that end, our policies and business practices include:

• **Contractual Requirements** – As of January 2015, our standard contract terms obligate Suppliers to abide by the Nielsen Supplier Code of Conduct. In 2017, we updated our Supplier Code based on a widely-used industry standard, the Responsible Business Alliance. Nielsen’s Supplier Code of Conduct addresses the following areas: Labor (specifically Human Rights), Health and Safety, Environmental Management, Ethics, and Management Systems.

• **Procurement Practices** – We specifically solicit sustainability information during supplier registration and the Request for Proposal (RfP) process; this information is included along with our other requirements for quality, delivery, service and cost. Our formal, principles-based Environmentally Preferable Purchasing Policy (EPPP) guides purchasing decisions at the product and service level.

As part of our ongoing commitment to environmental sustainability, our Environmentally Preferable Purchasing Policy (EPPP), first adopted and published on our website at nielsen.com in March 2017, outlines the environmental factors we consider in our procurement decisions. This principles-based policy applies globally to all categories of purchasing, with segment-specific approaches in the following major segments of our supply chain: technology; professional services, including paper, printing, air and auto travel; and contract manufacturing of measurement equipment.

• Include language in our new-facility lease contracts and Requests for Proposal (RFPs) to include delivery of environmental data on consumption at the facility level across energy, waste and water, among other areas.
Our approach is focused on specific areas where we can make a measurable impact through our supplier relationships, including:

- **Emissions** – We aim to make continual progress toward eliminating the release of any substance that may cause environmental damage and will seek to limit any effect on climate. We seek to utilize products and services that reduce air and water pollution.

- **Resource Conservation and Preservation** – We are committed to minimizing resource consumption and considering the life-cycle costs of products. We aim to reduce, reuse, and recycle resources during any procurement activity. We will utilize renewable resources and conserve non-renewable resources whenever possible.

- **Waste Reduction** – We will promote demand for recycled products and give preference to buying recycled materials when possible. We will seek to minimize waste through source reduction and recycling. All waste disposal decisions will be made with consideration towards environmental impact and meeting regulatory requirements.

- **Energy Efficiency** – We aim to conserve and improve the energy efficiency of our operations, goods, and services. We will make an effort to utilize sustainable energy sources and energy-efficient products.

- **Environmental Health & Safety Risk Reduction** – We will give preference to purchasing from sources that limit pollution and utilize clean technology. We will avoid products and services that pose any environmental, health or safety threats.

Based on our Environmentally Preferable Purchasing Policy (EPPP), in 2017 we established 43 baseline measurements across our purchasing categories and identified targets for improvement in the following spend categories: Energy Star devices and equipment; office paper and printing; travel and events. We publish our targets and progress towards those targets on an annual basis on nielsen.com.

**RAW MATERIALS SOURCING – CONFLICT MINERALS**

Upstream raw materials sourcing occurs in the electronics contract manufacturing segment of our direct supply chain. Thus, we are exposed to issues relating to the extraction and use of conflict minerals which may be used to finance militia operations or as a means to utilize forced labor. These minerals—tin, tantalum, tungsten, and gold or 3TG—are common components in electronics manufacturing, and as such, we are exposed to the risk of sourcing conflict minerals. To mitigate this risk, we are a member of the Responsible Minerals Initiative, the primary multi-stakeholder collaboration addressing ethical raw mineral sourcing. We conduct due diligence and report publicly on the smelters in our supply chain in our Conflict Minerals Disclosure, prepared in accordance with the Dodd-Frank Act of 2010.
BUSINESS DEVELOPMENT

WHAT WE DO:

We incorporate environmental sustainability-related questions as part of our due diligence efforts prior to an acquisition.

HOW WE DO IT:

As part of our standard due diligence for each new acquisition, we ask potential acquisition candidates to complete a questionnaire which asks for detailed information about their corporate environmental sustainability programs and how they report on their overall footprint, climate risks, and commitments. These inquiries then extend into understanding how the program runs, their goals, tracking of key metrics, and how they manage their most material issues and priorities. As part of the overall due diligence process for new acquisitions, these answers help ensure a smooth and effective integration with our own sustainability goals and efforts.

TRAVEL & EXPENSE (T&E)

WHAT WE DO:

We look to continuously innovate to create more sustainable processes and policies with our travel vendors wherever possible.

HOW WE DO IT:

As of July 2018, we have rolled out a new T&E online portal to all markets. The T&E system now includes functionality for both travel booking and expense reporting, creating a true end-to-end T&E solution which also reduces our paper usage across the board. Expense reports are now submitted electronically for all Nielsen markets. Receipts are submitted within the system either by e-receipt from the vendor, taking a photo of a receipt, or by employees uploading PDF documents. The new T&E system allows for real-time reporting, quicker report auditing, approval and payment processing. For countries where original copies are not required by statutory accounting policies, electronic-only submission is now accepted.
INDUSTRY PARTNERSHIPS & EVENTS

WHAT WE DO:

Our Industry Partnerships & Events team amplifies, creates and designs innovative experiences and programming with a focus on client and internal engagement, brand and reputation building, business development, revenue generation and cost leadership. Integrating some of the environmental criteria into our processes is an extension of that commitment to operational excellence.

HOW WE DO IT:

Nielsen Green and Industry Partnerships & Events teams have collaborated to establish Global Green Meeting Guidelines to include green criteria in all of our global events’ planning in order to drive a more sustainable impact. We continue to look at additional opportunities to reduce consumption and waste as it pertains to trade shows and other events.

The green meeting guidelines include:

- A pre-event checklist: to be used in the planning phase of an event, asking questions to hone in on environmental sustainability opportunities in all of the areas relevant to planning an event, such as registration, gift selection, venue selection, food & beverage, travel, accommodation, waste and water management, etc.

- A post-event survey: to be completed by our event lead to capture the overall environmental impact of the event, through metrics related to each area of the event mentioned in the pre-event checklist.

TECHNOLOGY & INFRASTRUCTURE

DATA CENTERS

WHAT WE DO:

We continue to identify efficiencies in our technology and infrastructure management to drive a positive impact on our overall environmental footprint. To that, as part of our commitment to green infrastructure, we maximize sustainable efficiencies across our data center footprint through server optimization, virtualization, storage refresh and data center & server room consolidation.
HOW WE DO IT:

Previous consolidation and virtualization projects have reduced energy consumption by 70% across our data centers. As we look towards the future of our data centers, we continue to innovate and identify opportunities that will deliver on our sustainable policies. As an example, below are some high-level goals established in these four areas:

• **Server Optimization:** We run capacity reports to identify underutilized physical hardware resources that can be used to complete physical-to-virtual systems conversions or be decommissioned. We aim to virtualize or retire hundreds of additional servers by the end of 2019 without adding more physical hardware or expanding the data center footprint.

• **Data Center Consolidation:** We have several data center consolidations in progress that will result in decommissioning or virtualizing hundreds of additional servers into our regional data centers, thereby reducing our overall data center footprint globally. Additional consolidations will be identified and approved in the near future.

• **Server Room Reduction:** We have a global server room reduction project in progress that will result in decommissioning thousands of servers and other hardware into our remote server rooms across the globe, thereby reducing our overall computing footprint globally. This is a multi-year project with a goal of 50% footprint reduction in 2019.

• **Storage Refresh:** We use an innovative approach to refreshing and upgrading our storage platform, which will also significantly reduce our need for data center floor space and significant energy consumption.

Nielsen continues to add new virtual servers, while adding physical ones where the virtual option has been exhausted. Our overall virtualization is expected to be over 80% by the end of 2019.

Another part of our strategy is to employ newer backup systems that use hard drives and cloud storage rather than the traditional magnetic tape media which consume a lot of space in the data center and at offsite locations. This new architecture allows us to replace multiple data center racks of legacy tape libraries and consolidate our backup infrastructure into a single rack space or less. This significantly reduces our overall hardware footprint, requiring less data center floor space, and lowering power and cooling requirements.

The benefit of this type of backup architecture affects all of our on-premise data recovery operations from accidental file deletions, application corruption, and even disaster scenarios by allowing data to be recovered immediately instead of waiting hours or even days for a tape delivery truck.
**E-WASTE MANAGEMENT**

**WHAT WE DO:**

Waste management is one of our key areas of concern within our environmental sustainability strategy. As such, we continue to investigate innovative ways to minimize waste production. This spans from proactive measures such as reducing consumption, reusing and repurposing raw materials, to more reactive actions such as recycling and composting.

One of the biggest areas of focus within waste management for Nielsen is electronic waste (e-waste).

Through our Cyber Security Policy, we have specified disposal and destruction requirements for our approved third-party vendors that ensure the security of our data and assets on various types of media. These requirements are defined by:

- Type of media or information asset;
- Classification of information contained on those assets; and
- Industry standard disposal or destruction techniques appropriate to the type of media; our policy aligns with the current National Institute of Standards and Technology (NIST) requirements.

**HOW WE DO IT:**

The vendors that we work with to dispose of our retired electronic equipment are committed to, and comply with, our zero landfill requirements. In 2018, we reevaluated our vendors in this category to simplify our approach, ultimately reducing the number of e-waste vendors we use from over two dozen to just a few who comply with these environmental sustainability requirements.

These vendors undergo a security risk assessment process to validate that they can meet our Cyber Security expectations, including the following requirements:

- Vendors must provide certificates of disposal or destruction for assets;
- Vendors are contractually required to comply with any applicable Nielsen cyber security standard;
- Vendors are contractually required to abide by all regulations pertaining to appropriate disposal or destruction of assets in the specific city, country or region where the service is provided;
- Vendors retained by us to assist in the transfer, disposal or sanitization of equipment or media must comply with the sustainability terms of this policy;
• Vendors are chosen based on our supplier selection criteria and are assessed for appropriate information security requirements; and

• Our standard Requests for Proposal (RfPs) include a section on sustainability to evaluate our potential supplier’s commitment to the environment.

ENGINEERING

WHAT WE DO:

In order to ensure our continued resilience, our Engineering team follows guidelines set out to maintain sustainable operations by addressing the full lifecycle of all Nielsen equipment: from design and manufacturing, to recycling and repurposing. By addressing the full lifecycle of our equipment, we aim to ensure that we remain sustainable across all of our global operations.

We understand the toxic and hazardous impact of electronic materials on the solid waste stream in the environment, while also recognizing that such electronic waste can contain valuable, recoverable materials such as aluminum, copper, gold, silver, plastics, and ferrous metals. Thus, in an effort to conserve natural resources and the energy needed to produce new electronic equipment from untapped resources, we seek to refurbish, reuse, and recycle all of our electronic equipment where possible.

HOW WE DO IT:

Equipment Design/Manufacturing

• Our metering devices used for device and consumer measurement are designed for low power consumption. This allows us to maximize our run time on battery (also benefiting the final consumer with a low energy bill).

• All equipment is designed and built to be compliant based on product specifications with the following protocols:

  • All designs are RoHS (Restriction of Hazardous Substances)-compliant

  • All our hardware is UL- (Underwriters Laboratories Inc.), FCC (Federal Communications Commission) and CE (Conformance European)-compliant

  • We implement power management of test equipment in our engineering laboratories to reduce both the amount of energy needed to operate the equipment and the energy required to cool and maintain the environment itself.
**Equipment Recycling**

Old/Obsolete Media Monitoring Sites (MMS) equipment is placed on pallets and sent to a recycler on a quarterly basis. This includes Nielsen watermark encoders, MMS servers, satellite receivers, monitors, workstation PCs, and other miscellaneous equipment.

**Equipment Repurposing**

We are committed to repurposing and reusing old equipment from our different products for all tests and Research & Development.

Old equipment in storage is used to build new setups and sites instead of buying new equipment. Where feasible, old parts are used to build new prototypes. Additionally, for equipment returned from the field, our Field Repair team works on fixes to enable reuse, instead of always making new purchases.
VERIFICATION
STATEMENTS

• 2018 Scope 1, Scope 2 & Scope 3 (Category 6 & 7)
  Data Verification Statements
• 2018 Water & Waste Data Verification Statements
• 2017 Scope 1, Scope 2 & Scope 3 Data Verification Statements
• 2017 Water & Waste Data Verification Statements
• 2016 Scope 1 & Scope 2 Data Verification Statements
• 2016 Scope 3 Data Verification Statements
• 2016 Water & Waste Data Verification Statements
2018 SCOPE 1, SCOPE 2 & SCOPE 3 (CATEGORY 6 & 7) DATA VERIFICATION STATEMENTS

VERIFICATION STATEMENT
GREENHOUSE GAS EMISSIONS

Bureau Veritas North America, Inc. (BVNA) was engaged to conduct an independent verification of the greenhouse gas (GHG) emissions reported by the Nielsen Company for the period stated below. This Verification Statement applies to the related information included within the scope of work described below.

The determination of the GHG emissions is the sole responsibility of the Nielsen Company. BVNA’s sole responsibility was to provide independent verification on the accuracy of the GHG emissions reported, and on the underlying systems and processes used to collect, analyze and review the information.

Boundaries of the reporting company GHG emissions covered by the verification:

- Operational Control
- Scope 1 Emissions Reporting is based upon data from 20 Reporting Locations (13 North American, 5 European, and 2 South/Central American countries)
- Scope 2 Emissions Reporting is based upon data from 145 Reporting locations (28 North American, 48 European, 15 Asia-Pacific and 54 South/Central American countries)
- Scope 3 Emissions Reporting is based on World Wide Operations
- Exclusions from the scope of the reporter’s GHG emissions assertion
  - Locations within operational control where emission data is not available

Emissions data verified:

- Scope 1: 860 metric tonnes of CO₂ equivalent
- Scope 2 Location Based: 24,000 metric tonnes of CO₂ equivalent
- Scope 2 Market Based: 25,000 metric tonnes of CO₂ equivalent
- Scope 3 68,300 metric tonnes of CO₂ equivalent
  - Category 6 - Business Travel – 18,500 metric tonnes of CO₂ equivalent
  - Category 7 – Employee Commute – 49,800 metric tonnes of CO₂ equivalent

Data and information supporting the Scope 1 and Scope 2 GHG emissions assertion were generally historical in nature.

Data and information supporting the Scope 3 GHG emissions assertion were in some cases estimated rather than historical in nature.

Period covered by GHG emissions verification:

- January 1, 2018 to December 31, 2018

GHG Reporting Protocols against which verification was conducted:

- World Resources Institute (WRI)/World Business Council for Sustainable Development (WBCSD) Greenhouse Gas Protocol Corporate Accounting and Reporting Standard (Scope 1 and 2)
- WRI/WBCSD Greenhouse Gas Protocol Corporate Value Chain (Scope 3) Accounting and Reporting Standard (Scope 3)
GHG Verification Protocols used to conduct the verification:

- ISO 14064-3: Greenhouse gases - Part 3: Specification with guidance for the validation and verification of greenhouse gas assertions

Level of Assurance and Qualifications:

- Limited

Qualifications

- No opinion can be given relating to emissions beyond the boundaries of this verification for facilities and activities that the Nielsen Company has not included in their 2018 footprint.

GHG Verification Methodology:

- Interviews with relevant personnel of the Nielsen Company;
- Review of documentary evidence produced by the Nielsen Company;
- Review of Nielsen Company data and information systems and methodology for collection, aggregation, analysis and review of information used to determine GHG emissions; and
- Audit of sample of data used by the Nielsen Company to determine GHG emissions.

Assurance Opinion:

Based on the processes and procedures conducted, there is no evidence that the GHG emissions assertion shown above:

- is not a fair representation of the GHG emissions data and information; and
- has not been prepared in accordance with the WRI/WBCSD GHG Protocol Corporate Accounting and Reporting Standard.

It is our opinion that the Nielsen Company has established appropriate systems for the collection, aggregation and analysis of quantitative data for determination of these GHG emissions for the stated period and boundaries.
Statement of independence, impartiality and competence

The Bureau Veritas Group is an independent professional services company that specializes in Quality, Health, Safety, Social and Environmental management with over 180 years history in providing independent assurance services.

No member of the verification team has a business relationship with the Nielsen Company, its Directors or Managers beyond that required of this assignment. We conducted this verification independently and to our knowledge there has been no conflict of interest.

The Bureau Veritas Group has implemented a Code of Ethics across the business to maintain high ethical standards among staff in their day-to-day business activities.

The verification team has extensive experience in conducting assurance over environmental, social, ethical and health and safety information, systems and processes, has over 20 years combined experience in this field and an excellent understanding of The Bureau Veritas Group standard methodology for the verification of greenhouse gas emissions data.

Attestation:

Christopher J. Ostermann, CPEA  
Program Manager – Lead Verifier  
Bureau Veritas North America, Inc.  
Atlanta Regional Office  
June 3, 2019

John A. Stangline, CPEA, Technical Reviewer  
National Director – Environmental Services  
Bureau Veritas North America, Inc.

This verification statement, including the opinion expressed herein, is provided to the Nielsen Company and is solely for the benefit of the Nielsen Company in accordance with the terms of our agreement. We consent to the release of this statement by you to the Carbon Disclosure Project (CDP) in order to satisfy the terms of CDP disclosure requirements but without accepting or assuming any responsibility or liability on our part to CDP or to any other party who may have access to this statement.
2018 WATER & WASTE DATA VERIFICATION STATEMENTS

BUREAU VERITAS NORTH AMERICA
INDEPENDENT ASSURANCE STATEMENT

Introduction and objectives of work

Bureau Veritas North America, Inc. (BVNA) was engaged by the Nielsen Company to conduct an independent assurance of select environmental data reported in its corporate social responsibility report (the Report). This Assurance Statement applies to the related information included within the scope of work described below for the time period of January 1, 2018 to December 31, 2018. The overall aim of this process is to provide assurance to The Nielsen Company’s stakeholders on the accuracy, reliability and objectivity of select information included in the Report.

This information and its presentation in the Report are the sole responsibility of the management of The Nielsen Company. BVNA was not involved in the collection of the information or the drafting of the Report.

Boundaries of the reporting company GHG emissions covered by the verification:

- Operational Control
- Waste to Landfill Reporting is based upon data from 5 Nielsen Company Locations
- Water Consumption Reporting is based upon data from 45 Nielsen Company Locations

Scope of work

The Nielsen Company requested BVNA to include in its independent review the following:

- Assurance of the environmental data and information included in the Report for January 1st to December 31st 2018 reporting period, specifically:
  - Water Consumption and Waste Generation associated with Office Operations.
- Appropriateness and robustness of underlying reporting systems and processes used to collect, analyze, and review the environmental information reported; and
- Evaluation of the reported data against the Nielsen Company’s internal reporting procedures.

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Excluded from the scope of our work is any assurance of information relating to:

- Text or other written statements associated with the Nielsen Company’s submissions
- Activities outside the defined reporting boundaries and period

**Methodology**

BVNA undertook the following activities:

1. Interviews with relevant personnel of the Nielsen Company
2. Review of internal and external documentary evidence provided by the Nielsen Company;
3. Review of the Nielsen Company information systems for collection, aggregation, analysis and internal verification and review of environmental data.

Our work was conducted to the Bureau Veritas standard procedures and guidelines for external Verification of Sustainability Reports, which are based upon the International Standard on Assurance Engagements (ISAE) 3000 and current best practice in independent assurance.

The work was planned and carried out to provide limited, rather than absolute, assurance and we believe it provides an appropriate basis for our conclusions.

**Environmental data verified:**

- **Water Consumption**: 165,000 cubic meters (m³)
- **Waste Disposal**: 615 metric tonnes

Data and information supporting the environmental data assertion were historical in nature.

**Our findings**

On the basis of our methodology and the activities described above, it is BVNA’s opinion that:

- Nothing has come to our attention to indicate that the reviewed information within the scope of our verification is not materially correct.
- Nothing has come to our attention to indicate that the reviewed information is not a fair representation of the actual environmental data.
- The Nielsen Company has established appropriate systems for the collection, aggregation and analysis of relevant environmental information, and has implemented underlyng internal assurance practices that provide a reasonable degree of confidence that such information is complete and accurate.
Statement of independence, impartiality and competence

The Bureau Veritas Group is an independent professional services company that specializes in Quality, Health, Safety, Social and Environmental management with over 180 years history in providing independent assurance services.

No member of the assurance team has a business relationship with the Nielsen Company, its Directors or Managers beyond that of verification and assurance of sustainability data and reporting. We have conducted this verification independently and we believe there to have been no conflict of interest.

BVNA has implemented a Code of Ethics across the business to maintain high ethical standards among staff in their day-to-day business activities.

The assurance team has extensive experience in conducting assurance over environmental, social, ethical and health and safety information, systems and processes, has over 20 years combined experience in this field and an excellent understanding of BVNA standard methodology for the Assurance of Sustainability Reports.

Bureau Veritas North America, Inc.
Kennesaw, Georgia
April 11, 2019
2017 SCOPE 1, SCOPE 2 & SCOPE 3 DATA VERIFICATION STATEMENTS

Bureau Veritas North America, Inc. (BVNA) was engaged to conduct an independent verification of the greenhouse gas (GHG) emissions reported by the Nielsen Company for the period stated below. This Verification Statement applies to the related information included within the scope of work described herein.

The determination of the GHG emissions is the sole responsibility of the Nielsen Company. BVNA’s sole responsibility was to provide independent verification on the accuracy of the GHG emissions reported and on the underlying systems and processes used to collect, analyze and review the information.

Boundaries of the reporting company GHG emissions covered by the verification:

- Operational Control
- Scope 1 Emission Reporting is based upon data from 19 North America locations and 1 European location.
- Scope 2 Emission Reporting is based upon data from 152 Reporting locations (54 North American, 24 European, and 74 South/Central American locations)
- Exclusions from the scope of the reporter’s GHG emissions assertion
  - Locations within operational control where emission data is not available

Emissions data verified:

- **Scope 1**: 700 metric tons of CO₂ equivalent
- **Scope 2 Location Based**: 29,150 metric tons of CO₂ equivalent
- **Scope 2 Market Based**: 26,300 metric tons of CO₂ equivalent
- **Scope 3 Category 6 Business Travel (Air Travel Only)**: 15,570 metric tons of CO₂ equivalent

Data and information supporting the Scope 1 and Scope 2 GHG emissions assertion were generally historical in nature.

Period covered by GHG emissions verification:


GHG Reporting Protocols against which verification was conducted:


GHG Verification Protocols used to conduct the verification:

- ISO 14064-3: Greenhouse gases - Part 3: Specification with guidance for the validation and verification of greenhouse gas assertions

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www.us-bureauservicest.com
Level of Assurance and Qualifications:
- Limited
- Qualifications
  - No opinion can be given relating to emissions beyond the boundaries of this verification for facilities and activities that the Nielsen Company has not included their 2017 footprint.

GHG Verification Methodology:
- Interviews with relevant personnel of the Nielsen Company;
- Review of documentary evidence produced by the Nielsen Company;
- Review of Nielsen Company data and information systems and methodology for collection, aggregation, analysis and review of information used to determine GHG emissions; and
- Audit of sample of data used by the Nielsen Company to determine GHG emissions.

Assurance Opinion:
Based on the process and procedures conducted, there is no evidence that the GHG emissions assertion shown above:
- is not a fair representation of the GHG emissions data and information; and
- has not been prepared in accordance with the WRI/WBCSD GHG Protocol Corporate Accounting and Reporting Standard.

It is our opinion that the Nielsen Company has established appropriate systems for the collection, aggregation and analysis of quantitative data for determination of these GHG emissions for the stated period and boundaries.
Statement of independence, impartiality and competence

The Bureau Veritas Group is an independent professional services company that specializes in Quality, Health, Safety, Social and Environmental management with over 180 years history in providing independent assurance services.

No member of the verification team has a business relationship with the Nielsen Company, its Directors or Managers beyond that required of this assignment. We conducted this verification independently and to our knowledge there has been no conflict of interest.

The Bureau Veritas Group has implemented a Code of Ethics across the business to maintain high ethical standards among staff in their day-to-day business activities.

The verification team has extensive experience in conducting assurance over environmental, social, ethical and health and safety information, systems and processes, has over 20 years combined experience in this field and an excellent understanding of The Bureau Veritas Group standard methodology for the verification of greenhouse gas emissions data.

Attestation:

Christopher J. Ostermann, CPEA, Lead Verifier
Senior Project Manager
Bureau Veritas North America, Inc.
Atlanta Regional Office

John A. Starling, Technical Reviewer
HSE Director - Cleveland
Bureau Veritas North America, Inc.
Great Lakes Regional Office

March 30, 2018

This verification statement, including the opinion expressed herein, is provided to the Nielsen Company and is solely for the benefit of the Nielsen Company in accordance with the terms of our agreement. We consent to the release of this statement by you to the Carbon Disclosure Project (CDP) in order to satisfy the terms of CDP disclosure requirements but without accepting or assuming any responsibility or liability on our part to CDP or to any other party who may have access to this statement.
2017 WATER & WASTE DATA VERIFICATION STATEMENTS

BUREAU VERITAS NORTH AMERICA
INDEPENDENT ASSURANCE STATEMENT

Introduction and objectives of work
Bureau Veritas North America, Inc. (BVNA) was engaged by the Nielsen Company to conduct an independent assurance of select environmental data reported in its corporate social responsibility report (the Report). This Assurance Statement applies to the related information included within the scope of work described below for the time period of January 1, 2017 to December 31, 2017. The overall aim of this process is to provide assurance to The Nielsen Company’s stakeholders on the accuracy, reliability and objectivity of select information included in the Report.

This information and its presentation in the Report are the sole responsibility of the management of The Nielsen Company. BVNA was not involved in the collection of the information or the drafting of the Report.

Boundaries of the reporting company GHG emissions covered by the verification:

- Operational Control
- Waste to Landfill Reporting is based upon data 1 South/Central America, 2 European, and 4 North American Locations
- Water Consumption Reporting is based upon data from 10 South/Central America, 7 European, and 21 North American Locations

Scope of work
The Nielsen Company requested BVNA to include in its independent review the following:

- Assurance of the environmental data and information included in the Report for January 1st to December 31st 2017 reporting period, specifically:
  - Water Consumption and Waste Generation associated with Office Operations.

- Appropriateness and robustness of underlying reporting systems and processes used to collect, analyze, and review the environmental information reported, and

- Evaluation of the reported data against the Nielsen Company’s internal reporting procedures.

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www.us.bureauveritas.com
Excluded from the scope of our work is any assurance of information relating to:

- Text or other written statements associated with the Nielsen Company's submissions
- Activities outside the defined reporting boundaries and period

**Methodology**

BVNA undertook the following activities:

1. Interviews with relevant personnel of the Nielsen Company
2. Review of internal and external documentary evidence provided by the Nielsen Company;
3. Review of the Nielsen Company information systems for collection, aggregation, analysis and internal verification and review of environmental data.

Our work was conducted against the Bureau Veritas Group's standard procedures and guidelines for external Verification of Sustainability Reports, based upon current best practice in independent assurance and the International Standard on Assurance Engagements (ISAE) 3000.

The work was planned and carried out to provide limited, rather than absolute, assurance and we believe it provides an appropriate basis for our conclusions.

**Environmental data verified:**

- **Water Consumption**: 130,685 cubic meters (m³)
- **Waste Disposal**: 710 metric tonnes

Data and information supporting the environmental data assertion were historical in nature.

**Our findings**

On the basis of our methodology and the activities described above, it is BVNA’s opinion that:

- Nothing has come to our attention to indicate that the reviewed information within the scope of our verification is not materially correct.
- Nothing has come to our attention to indicate that the reviewed information is not a fair representation of the actual environmental data.
- The Nielsen Company has established appropriate systems for the collection, aggregation and analysis of relevant environmental information, and has implemented underlying internal assurance practices that provide a reasonable degree of confidence that such information is complete and accurate.
Statement of independence, impartiality and competence

The Bureau Veritas Group is an independent professional services company that specializes in Quality, Health, Safety, Social and Environmental management with over 180 years history in providing independent assurance services.

No member of the assurance team has a business relationship with the Nielsen Company, its Directors or Managers beyond that of verification and assurance of sustainability data and reporting. We have conducted this verification independently and we believe there to have been no conflict of interest.

BVNA has implemented a Code of Ethics across the business to maintain high ethical standards among staff in their day-to-day business activities.

The assurance team has extensive experience in conducting assurance over environmental, social, ethical and health and safety information, systems and processes, has over 20 years combined experience in this field and an excellent understanding of BVNA standard methodology for the Assurance of Sustainability Reports.

Bureau Veritas North America, Inc.
Kennesaw, Georgia
March 30, 2018
2016 SCOPE 1 & SCOPE 2 DATA VERIFICATION STATEMENTS

PRELIMINARY VERIFICATION STATEMENT
GREENHOUSE GAS EMISSIONS

Bureau Veritas North America, Inc. (BVNA) was engaged to conduct an independent verification of the greenhouse gas (GHG) emissions reported by the Nielsen Company for the period stated below. This Verification Statement applies to the related information included within the scope of work described below.

The determination of the GHG emissions is the sole responsibility of the Nielsen Company. BVNA’s sole responsibility was to provide independent verification on the accuracy of the GHG emissions reported, and on the underlying systems and processes used to collect, analyze and review the information.

Boundaries of the reporting company GHG emissions covered by the verification:

- Operational Control
- Scope 1 Emission Reporting is based upon data from 26 locations (7 South/Central American and 19 North American locations)
- Scope 2 Emission Reporting is based upon data from 130 Reporting Locations (43 North American and 87 South/Central American and Caribbean locations)
- Exclusions from the scope of the reporter’s GHG emissions assertion
  - Locations within operational control were emission data is not available

Emissions data verified:

- **Scope 1**: 1,135 metric tons of CO₂ equivalent
- **Scope 2 Location Based**: 31,000 metric tons of CO₂ equivalent
- **Scope 2 Market Based**: 32,000 metric tons of CO₂ equivalent

Data and information supporting the Scope 1 and Scope 2 GHG emissions assertion were historical in nature.

Period covered by GHG emissions verification:

- January 1, 2016 to December 31, 2016

GHG Reporting Protocols against which verification was conducted:

- World Resources Institute (WRI)/World Business Council for Sustainable Development (WBCSD)
  - Greenhouse Gas Protocol

GHG Verification Protocols used to conduct the verification:

- ISO 14064-3: Greenhouse gases -- Part 3: Specification with guidance for the validation and verification of greenhouse gas assertions

Level of Assurance and Qualifications:

- Limited

- Qualifications
  - No opinion can be given relating to emissions that the Nielsen Company has not included within their 2016 emissions reporting boundaries.

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GHG Verification Methodology:
- Interviews with relevant personnel of the Nielsen Company;
- Review of documentary evidence produced by the Nielsen Company;
- Review of Nielsen Company data and information systems and methodology for collection, aggregation, analysis and review of information used to determine GHG emissions; and
- Audit of sample of data used by the Nielsen Company to determine GHG emissions.

Assurance Opinion:
Based on the process and procedures conducted, there is no evidence that the GHG emissions assertion shown above:
- is not a fair representation of the GHG emissions data and information; and
- has not been prepared in accordance with the WRI/WBCSD GHG Protocol Corporate Accounting and Reporting Standard.

It is our opinion that the Nielsen Company has established appropriate systems for the collection, aggregation and analysis of quantitative data for determination of these GHG emissions for the stated period and boundaries.
Statement of independence, impartiality and competence

The Bureau Veritas Group is an independent professional services company that specializes in Quality, Health, Safety, Social and Environmental management with over 180 years history in providing independent assurance services.

No member of the verification team has a business relationship with the Nielsen Company, its Directors or Managers beyond that required of this assignment. We conducted this verification independently and to our knowledge there has been no conflict of interest.

The Bureau Veritas Group has implemented a Code of Ethics across the business to maintain high ethical standards among staff in their day-to-day business activities.

The verification team has extensive experience in conducting assurance over environmental, social, ethical and health and safety information, systems and processes, has over 20 years combined experience in this field and an excellent understanding of The Bureau Veritas Group standard methodology for the verification of greenhouse gas emissions data.

Attestation:

Christopher J. Ostermann, Lead Verifier
Project Manager
Bureau Veritas North America, Inc.
Atlanta Regional Office

John A. Stangline, Technical Reviewer
HSE Director - Cleveland
Bureau Veritas North America, Inc.
Great Lakes Regional Office

May 7, 2017

This verification statement, including the opinion expressed herein, is provided to the Nielsen Company in accordance with the terms of our agreement. We consent to the release of this statement by you to the Carbon Disclosure Project (CDP) in order to satisfy the terms of CDP disclosure requirements but without accepting or assuming any responsibility or liability on our part to CDP or to any other party who may have access to this statement.
2016 SCOPE 3 DATA VERIFICATION STATEMENTS

VERIFICATION STATEMENT
GREENHOUSE GAS EMISSIONS

Bureau Veritas North America, Inc. (BVNA) was engaged to conduct an independent verification of the greenhouse gas (GHG) emissions reported by the Nielsen Company for the period stated below. This Verification Statement applies to the related information included within the scope of work described below.

The determination of the GHG emissions is the sole responsibility of the Nielsen Company. BVNA’s sole responsibility was to provide independent verification on the accuracy of the GHG emissions reported, and on the underlying systems and processes used to collect, analyze and review the information.

Boundaries of the reporting company GHG emissions covered by the verification:

- Operational Control
- Exclusions from the scope of the reporter’s GHG emissions assertion
  - Emissions Data associated with Scope 3 Category 8 from sources other than Air Travel

Emissions data verified:

- Scope 3: 18,400 metric tons of CO₂ equivalent (Business Travel – Air Travel)
  - Data and information supporting the Scope 3 GHG emissions assertion were historical in nature.

Period covered by GHG emissions verification:

- January 1, 2016 to December 31, 2016

GHG Reporting Protocols against which verification was conducted:

- World Resources Institute (WRI)/World Business Council for Sustainable Development (WBCSD)
  - Greenhouse Gas Protocol

GHG Verification Protocols used to conduct the verification:

- ISO 14064-3: Greenhouse gases -- Part 3: Specification with guidance for the validation and verification of greenhouse gas assertions

Level of Assurance and Qualifications:

- Limited
  - Qualifications
  - No opinion can be given relating to emissions that the Nielsen Company has not included within their 2016 emissions reporting boundaries.

GHG Verification Methodology:

- Interviews with relevant personnel of the Nielsen Company;

- Review of documentary evidence produced by the Nielsen Company;

- Review of Nielsen Company data and information systems and methodology for collection, aggregation, analysis and review of information used to determine GHG emissions; and
Audit of sample of data used by the Nielsen Company to determine GHG emissions.

Assurance Opinion:
Based on the process and procedures conducted, there is no evidence that the GHG emissions assertion shown above:

- is not a fair representation of the GHG emissions data and information; and
- has not been prepared in accordance with the WRI/WBCSD GHG Protocol Corporate Accounting and Reporting Standard.

It is our opinion that the Nielsen Company has established appropriate systems for the collection, aggregation and analysis of quantitative data for determination of these GHG emissions for the stated period and boundaries.

Statement of independence, impartiality and competence
The Bureau Veritas Group is an independent professional services company that specializes in Quality, Health, Safety, Social and Environmental management with over 180 years history in providing independent assurance services.

No member of the verification team has a business relationship with the Nielsen Company, its Directors or Managers beyond that required of this assignment. We conducted this verification independently and to our knowledge there has been no conflict of interest.

The Bureau Veritas Group has implemented a Code of Ethics across the business to maintain high ethical standards among staff in their day-to-day business activities.

The verification team has extensive experience in conducting assurance over environmental, social, ethical and health and safety information, systems and processes, has over 20 years combined experience in this field and an excellent understanding of The Bureau Veritas Group standard methodology for the verification of greenhouse gas emissions data.

Attestation:

Christopher J. Osterrmann, Lead Verifier
Project Manager
Bureau Veritas North America, Inc.
Atlanta Regional Office

John A. Stangline, Technical Reviewer
HSE Director - Cleveland
Bureau Veritas North America, Inc.
Great Lakes Regional Office

January 11, 2018

This verification statement, including the opinion expressed herein, is provided to the Nielsen Company and is solely for the benefit of the Nielsen Company in accordance with the terms of our agreement. We consent to the release of this statement by you to the Carbon Disclosure Project (CDP) in order to satisfy the terms of CDP disclosure requirements but without accepting or assuming any responsibility or liability on our part to CDP or to any other party who may have access to this statement.
2016 WATER & WASTE DATA VERIFICATION STATEMENTS

BUREAU VERITAS NORTH AMERICA
INDEPENDENT ASSURANCE STATEMENT

Introduction and objectives of work

Bureau Veritas North America, Inc. (BVNA) was engaged by the Nielsen Company to conduct an independent assurance of select environmental data reported in its corporate social responsibility report (the Report). This Assurance Statement applies to the related information included within the scope of work described below for the time period of January 1, 2016 to December 31, 2016. The overall aim of this process is to provide assurance to The Nielsen Company’s stakeholders on the accuracy, reliability and objectivity of select information included in the Report.

This information and its presentation in the Report are the sole responsibility of the management of The Nielsen Company. BVNA was not involved in the collection of the information or the drafting of the Report.

Boundaries of the reporting company GHG emissions covered by the verification:

- Operational Control
- Waste to Landfill Reporting is based upon data from 1 South America and 6 North American Locations
- Water Consumption Reporting is based upon data from 27 South/Central America and 28 North American Locations

Scope of work

The Nielsen Company requested BVNA to include in its independent review the following:

- Assurance of the environmental data and information included in the Report for January 1st to December 31st 2016 reporting period, specifically:
  - Water Consumption associated with Office Operations Waste Generation associated with Office Operations
- Appropriateness and robustness of underlying reporting systems and processes used to collect, analyze, and review the environmental information reported; and
- Evaluation of the reported data against the Nielsen Company’s internal reporting procedures.

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Excluded from the scope of our work is any assurance of information relating to:

- Text or other written statements associated with the Nielsen Company’s submissions
- Activities outside the defined reporting boundaries and period

**Methodology**

BVNA undertook the following activities:

1. Interviews with relevant personnel of the Nielsen Company
2. Review of internal and external documentary evidence provided by the Nielsen Company;
3. Review of the Nielsen Company information systems for collection, aggregation, analysis and internal verification and review of environmental data.

Our work was conducted against the Bureau Veritas Group’s standard procedures and guidelines for external Verification of Sustainability Reports, based upon current best practice in independent assurance and the International Standard on Assurance Engagements (ISAE) 3000.

The work was planned and carried out to provide limited, rather than absolute, assurance and we believe it provides an appropriate basis for our conclusions.

**Environmental data verified:**

- **Water Consumption**: 179,000 cubic meters (m³)
- **Waste Disposal**: 345 metric tonnes

Data and information supporting the environmental data assertion were historical in nature.

**Our findings**

On the basis of our methodology and the activities described above, it is BVNA’s opinion that:

- Nothing has come to our attention to indicate that the reviewed information within the scope of our verification is not materially correct.
- Nothing has come to our attention to indicate that the reviewed information is not a fair representation of the actual environmental data.
- The Nielsen Company has established appropriate systems for the collection, aggregation and analysis of relevant environmental information, and has implemented underlying internal assurance practices that provide a reasonable degree of confidence that such information is complete and accurate.
Statement of independence, impartiality and competence

The Bureau Veritas Group is an independent professional services company that specializes in Quality, Health, Safety, Social and Environmental management with over 180 years history in providing independent assurance services.

No member of the assurance team has a business relationship with the Nielsen Company, its Directors or Managers beyond that of verification and assurance of sustainability data and reporting. We have conducted this verification independently and we believe there to have been no conflict of interest.

BVNA has implemented a Code of Ethics across the business to maintain high ethical standards among staff in their day-to-day business activities.

The assurance team has extensive experience in conducting assurance over environmental, social, ethical and health and safety information, systems and processes, has over 20 years combined experience in this field and an excellent understanding of BVNA standard methodology for the Assurance of Sustainability Reports.

Bureau Veritas North America, Inc.
Kennesaw, Georgia
May 4, 2017
ABOUT NIELSEN

Nielsen Holdings plc (NYSE: NLSN) is a global measurement and data analytics company that provides the most complete and trusted view available of consumers and markets worldwide. Our approach marries proprietary Nielsen data with other data sources to help clients around the world understand what’s happening now, what’s happening next, and how to best act on this knowledge. For more than 90 years Nielsen has provided data and analytics based on scientific rigor and innovation, continually developing new ways to answer the most important questions facing the media, advertising, retail and fast-moving consumer goods industries. An S&P 500 company, Nielsen has operations in over 100 countries, covering more than 90% of the world’s population. For more information, visit www.nielsen.com.

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