



INDEPENDENT ASSURANCE STATEMENT

Introduction and objectives of work

Bureau Veritas North America, Inc. (BVNA) has been engaged by Amgen to conduct an independent assurance of selected environmental and safety data.

This Assurance Statement applies to the related information included within the scope of work described below.

The data presented in Amgen's 2017 Responsibility Highlights Report (the Report) and in the Environment and Safety and Wellness sections on amgen.com is the sole responsibility of the management of Amgen. BVNA was not involved in the drafting of content for the Report or for amgen.com. Our sole responsibility was to provide independent verification of the accuracy of selected information included in the Report and on amgen.com.

Scope of work

Amgen requested BVNA to verify the accuracy of the following data summarized in Amgen's Report for the Calendar Year 2017 reporting period:

- Energy Use (Total, Direct and Indirect)
- Greenhouse Gas Emissions (Direct Scope 1 and Indirect Scope 2 location-based)
- Water Withdrawal and Fate
- Waste Quantities and Disposition
- Recordable Case Rate
- Days Away Case Rate
- Environmental Notices of Violation

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

- Text or other written statements associated with Amgen's 2017 Responsibility Highlights Report and amgen.com
- Activities outside the defined verification period of Calendar Year 2017

Methodology

As part of its independent verification, BVNA undertook the following activities:

1. Interviews with relevant personnel of Amgen regarding data collection and reporting systems;
2. Review of Amgen's data and information systems and methodology for collection, aggregation, analysis and internal audit of information used to determine the environmental and safety data;
3. Review of documentary evidence produced by Amgen;
4. Audit of Amgen's data traced back to the source during site visits to facilities located in Singapore and Thousand Oaks, California; and
5. Review of the centralized data, methods for consolidation of site data and site data available in the centralized data management system during a visit to Amgen's headquarters location in Thousand Oaks, California.

Our assurance work was conducted in accordance with BVNA procedures based on the International Standard on Assurance Engagements (ISAE) 3000 and ISO Standard 14064-3 Greenhouse Gases - Part 3: Specification with Guidance for the Validation and Verification of Greenhouse Gas Assertions. In accordance with our internal procedures for limited assurance, we use these as our reference standards.

The work was planned and carried out to provide data verification to a limited assurance level and we believe it provides an appropriate basis for our conclusions.

Our conclusions

On the basis of our methodology and the activities described above:

- 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 and safety data for calendar year 2017.
- It is our opinion that Amgen has established appropriate systems for the collection, aggregation and analysis of quantitative data within the scope of this assurance.

A summary of data within the scope of assurance for 2017 is attached.

Statement of independence, impartiality and competence

BVNA is part of The Bureau Veritas Group, an independent professional services company that specializes in Quality, Health, Safety, Social and Environmental management with almost 180 years of history in providing independent assurance services, and an annual 2017 revenue of 4.689 Billion Euros.

No member of the verification team has a business relationship with Amgen, its Directors or Managers beyond that required of this assignment. We have conducted this verification independently, and there has 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.

Attestation:



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Summary of 2017 Data Subject to Assurance

Metric Type	Units⁽¹⁾	2017⁽²⁾
Total Combustion On-site (Direct)	1,000 GJ	2,090
Natural Gas	1,000 GJ	1,100
Diesel	1,000 GJ	988
Propane	1,000 GJ	3
Total Purchased Energy (Indirect)	1,000 GJ	1,619
Fossil Fuel	1,000 GJ	1,039
Hydro	1,000 GJ	131
Nuclear	1,000 GJ	141
Renewables	1,000 GJ	299
Nonspecified	1,000 GJ	8
Total Energy	1,000 GJ	3,709
Total Carbon Combustion On-site (Scope 1 GHG emissions)	1,000 MT CO2Eq	125
Natural Gas	1,000 MT CO2Eq	56
Diesel	1,000 MT CO2Eq	68
Propane	1,000 MT CO2Eq	0.2
Total Carbon Purchased Energy (Scope 2 GHG emissions – location based)	1,000 MT CO2Eq	154
Electricity	1,000 MT CO2Eq	150
Steam	1,000 MT CO2Eq	3
Total Carbon From Energy	1,000 MT CO2Eq	278
Total Carbon Normalized to Total Energy	MTCO2Eq/GJ	0.075
Carbon Executive Air Fleet (Scope 1)	1,000 MT CO2Eq	5
Carbon From Fugitive Refrigerant Emissions (Scope 1)	MT CO2Eq	2,109
Total Water Withdrawal	1,000 CM	2,320
Municipal	1,000 CM	2,293
Other - (Reservoir) Trucked In	1,000 CM	-
Ground	1,000 CM	27
Water Fate	1,000 CM	2319
Consumed Into Products	1,000 CM	28
Lost to Evaporation	1,000 CM	610
Discharged to Treatment	1,000 CM	1,490
Discharged Directly to Environment	1,000 CM	191
Recycled	1,000 CM	608
Percentage of Water Recycled per Total Water Withdrawal	%	26%
Waste Recycling Rate (includes routine waste recycled, reused, composted and treated)	%	49%
Total Routine Waste	MT	9,856
Routine Hazardous Waste	MT	2,179
Recycled	MT	281
Incinerated for Energy Recovery	MT	901
Incinerated Not for Energy Recovery	MT	860



Metric Type	Units ⁽¹⁾	2017 ⁽²⁾
Landfilled	MT	115
Treated	MT	22
Routine Nonhazardous Waste	MT	7,677
Composted	MT	761
Reused	MT	129
Recycled	MT	3,620
Incinerated for Energy Recovery	MT	601
Incinerated Not for Energy Recovery	MT	162
Landfilled	MT	2,367
Treated	MT	38
Total Nonroutine Waste	MT	4,852
Injury and Illness Rate	Recordable Cases per 100 Employees	0.35
Lost Day Case rate	Lost Day Cases per 100 Employees	0.11
Environmental Notices of Violation	number	1

⁽¹⁾ Unit abbreviations:
 GJ= gigajoules
 MT CO2Eq = metric tons of carbon dioxide equivalents
 CM = cubic meters
 MT = metric tons

⁽²⁾ Numbers in this table have been rounded