

BASF in North America in Figures – 2018

At BASF, we create chemistry for a sustainable future. We combine economic success with environmental protection and social responsibility. The approximately 122,000 employees in the BASF Group work on contributing to the success of our customers in nearly all sectors and almost every country in the world. Our portfolio is organized into six segments: Chemicals, Materials, Industrial Solutions, Surface Technologies, Nutrition & Care and Agricultural Solutions. BASF generated sales of around €63 billion in 2018.

BASF Corporation, headquartered in Florham Park, New Jersey, is the North American affiliate of BASF SE, Ludwigshafen, Germany. BASF has more than 20,000 employees in North America and had sales of €16.7 billion (\$19.7 billion) in 2018.

Business development

In 2018, we further strengthened BASF's position in North America with the acquisition of significant businesses from Bayer in the areas of seeds and non-selective herbicides.

We aim to invest continuously in our production facilities. For example, we started up a new ammonia plant in Freeport, Texas, together with Yara International ASA, Oslo, Norway; we are expanding production for ibuprofen in Bishop, Texas; and we started construction of a new MDI synthesis unit in Geismar, Louisiana.

We strengthened our global battery materials business with the formation of BASF Toda America LLC (BTA), with facilities in Elyria, Ohio and Battle Creek, Michigan. BTA produces state-of-the-art high energy cathode active materials close to our North American customers.



BASF employees at the formic acid production plant in Geismar, LA.

Environmental protection, health and safety

BASF's environmental, health and safety (EHS) programs are focused on driving continuous improvement in all operations. Through this, we have been able to significantly improve process safety and occupational safety over time. As a member of the American Chemistry Council, we are committed to Responsible Care® (RC) because we value the health and safety of our employees, customers, contractors and communities.

In 2018, through active leadership and employee involvement, we expanded our multi-year safety performance improvement effort designed to reduce hazard exposures, improve process safety and reduce losses of containment. Over 17,500 employees and contractors and 2,500 leaders at 75 BASF sites in the region have participated in this award winning, culture-focused initiative.

Employees and society

BASF is a great place to work, offering career opportunities that are fulfilling, challenging and rewarding. Our dedicated team of employees works at manufacturing and R&D sites across the country, and serves our customers in a range of industries. Our workplace culture is focused on safety, empowerment and value. This drives innovation and growth and, creates a work environment that brings out the best in our teams.

With more than 120 locations in North America, our employees and facilities are an integral part of the communities in which they reside. BASF appreciates the importance of being a good neighbor and actively participates in communities where our employees live and work. We regularly contribute to environmental and life-enhancing organizations to strengthen our communities and improve quality of life.

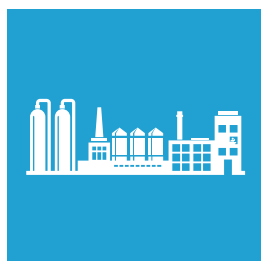
At the same time, we help to educate the next generation of scientists and engineers tasked with building a more sustainable future. We inspire future scientists through a variety of STEM education programs for children ranging from grades K-12. We also partner with many science centers and museums to offer our interactive Kids' Lab program that pairs chemistry and fun. Since 2010, nearly 500,000 students have participated in a BASF STEM education program in North America.

Key data: BASF in North America

	2016	2017	2018
Financial Results (in Mio. €)			
Sales by location of customer	14,042	15,357	16,143
Sales by location of company	14,682	15,937	16,659
Percentage of global BASF sales	26%	25%	27%
Employees (as of December 31)			
Number of employees	17,583	18,295	20,069
New hires	> 1,500	> 2,000	> 2,000**
Occupational Safety*			
Lost time injury rate (BASF employees, leased personnel and contractors, per 200.000 working hours; until 2017: per one million working hours and BASF employees and leased personnel only)	0.8	0.8	0.18
Fatalities (total)	0	1	0
Environment and Safety*			
Emissions to Air			
Greenhouse Gas Emissions (metric tons of CO ₂ equivalents)	4,845,178	4,935,873	4,920,451
Air Pollutants (CO, NOX, NMVOC, SOX, dust, NH ₃ /other inorganics, without CH ₄) (metric tons)	11,122	10,184	10,403
Water			
Emissions to water: Organic substances (CoD) (metric tons)	2,685	2,555	2,752
Emissions to water: Nitrogen (Metric tons)	912	874	892
Emissions to water: Heavy Metals (metric tons)	5	5	4
Water Supply (million cubic meters)	80	75	76
Water used for production (million cubic meters)	40	36	39
Water used for cooling (million cubic meters)	2	1.989	1.966
Waste			
Waste (total amount) (metric tons)	605,284	628,967	636,907
Recycling and thermal recovery (%)	16	14	14
Energy			
Electricity Consumption (MWh)	3,276,538	3,332,135	3,361,528
Steam Consumption (metric tons)	14,354,168	14,925,872	14,700,493
Fuel Consumption (central powerplants and boilers, MWh)	10,260,806	10,721,268	10,578,412

*USA only.

**Excluding employees of the businesses acquired from Bayer.



BASF has more than **120 production and R&D sites** throughout North America.



BASF plans to invest **€5.1 billion in capex** in North America for the period 2019 – 2023.



In 2018, BASF provided **charitable contributions of about \$5.2 million** in North America.



Around **2,500 scientists** work at **59 R&D sites** across the region.

Key data: Geismar, Louisiana site

	2016	2017	2018
Employees (as of December 31)			
Number of employees	1,105	1,162	1,237
Occupational Safety			
Lost time injury rate (BASF employees, leased personnel and contractors, per 200.000 working hours; until 2017: per one million working hours and BASF employees and leased personnel only)	0.4	0.4	0.04
Fatalities (total)	0	0	0
Environment and Safety			
Emissions to Air			
Greenhouse Gas Emissions (metric tons of CO ₂ equivalents)	876,484	854,530	884,789
Air Pollutants (CO, NOX, NMVOC, SOX, dust, NH ₃ /other inorganics, without CH ₄) (metric tons)	1,755	1,868	1,823
Water			
Emissions to water: Organic substances (CoD) (Metric tons)	912	812	692
Emissions to water: Nitrogen (metric tons)	135	190	163
Emissions to water: Heavy Metals (metric tons)	1	1	1
Water supply (million cubic meters)	21	20	22
Water supply by source – surface water (percent)	89	89	84
Water supply by source – groundwater (percent)	11	11	16
Water supply by source – drinking water (percent)	0	0	0
Water used for production (million cubic meters)	3	3	3
Water used for cooling (million cubic meters)	628	625	625
Waste			
Waste (total amount) (metric tons)	53,925	70,975	74,864
Recycling and thermal recovery (percent)	60	51	45
Disposal of waste – incineration (percent)	7	5	5
Disposal of waste – landfill (percent)	33	44	50
Disposal of waste – underground storage (percent)	0	0	0
Energy			
Electricity Consumption (MWh)	733,400	753,500	736,172
Steam Consumption (metric tons)	3,272,533	3,671,104	3,291,159
Fuel Consumption (central powerplants and boilers, MWh)	3,334,154	3,423,174	3,183,833



In 2012, methylamines started production at the BASF Geismar Verbund site in Louisiana. Methylamine is used in the production of agrochemicals, personal care products, detergents, pharmaceuticals, textiles, solvents and animal feed additives.

Key data: Freeport, Texas site

	2016	2017	2018
Employees (as of December 31)			
Number of employees	873	880	880
Occupational Safety			
Lost time injury rate (BASF employees, leased personnel and contractors, per 200.000 working hours; until 2017: per one million working hours and BASF employees and leased personnel only)	0.9	0.5	0.08
Fatalities (total)	0	0	0
Environment and Safety			
Emissions to Air			
Greenhouse Gas Emissions (metric tons of CO ₂ equivalents)	1,101,165	1,169,795	1,075,726
Air Pollutants (CO, NOX, NMVOC, SOX, dust, NH ₃ /other inorganics, without CH ₄) (metric tons)	1,136	1,304	1,366
Water			
Emissions to water: Organic substances (CoD) (metric tons)	463	269	356
Emissions to water: Nitrogen (metric tons)	143	128	146
Emissions to water: Heavy Metals (metric tons)	1	1	0
Water Supply (million cubic meters)	8	8	9
Water supply by source – surface water (percent)	99	99	96
Water supply by source – groundwater (percent)	0	0	3
Water supply by source – drinking water (percent)	1	1	0
Water used for production (million cubic meters)	4	3	4
Water used for cooling (million cubic meters)	462	462	452
Waste			
Waste (total amount) (metric tons)	168,804	160,466	180,242
Recycling and thermal recovery (percent)	16	13	14
Disposal of waste – incineration (percent)	36	43	35
Disposal of waste – landfill (percent)	21	16	17
Disposal of waste – underground storage (percent)	28	28	34
Energy			
Electricity Consumption (MWh)	830,344	840,987	825,575
Steam Consumption (metric tons)	3,842,114	3,774,057	3,804,972
Fuel Consumption (central powerplants and boilers, MWh)	2,599,773	2,556,281	2,270,724



The Freeport Verbund site is the leading producer of basic chemicals, intermediates and fiber products. To contain storage costs, BASF supplies many customers in a just-in-time system.