FACEBOOK

Published September 2020

	2015	2016	2017	2018	2019
Altoona, IA	174,000	342,000	500,000	612,000	853,000
Clonee, Ireland	not yet online	1,000	17,000	200,000	382,000
Forest City, NC	310,000	339,000	433,000	547,000	614,000
Fort Worth, TX	<500	16,000	189,000	461,000	695,000
Luleå, Sweden	187,000	295,000	301,000	337,000	373,000
New Albany, OH	not yet online	not yet online	not yet online	not yet online	38,000
Odense, Denmark	not yet online	not yet online	not yet online	4,000	128,000
Papillion, NE	not yet online	not yet online	not yet online	5,000	178,000
Prineville, OR	284,000	327,000	426,000	488,000	573,000
Henrico, VA	not yet online	not yet online	not yet online	not yet online	10,000
Los Lunas, NM	not yet online	not yet online	not yet online	26,000	289,000
East Coast Leased Data Center Facility	224,000	317,000	359,000	432,000	674,000
Other Data Center-Related Facilities	82,000	118,000	135,000	133,000	113,000
Data Centers Total	1,260,000	1,756,000	2,360,000	3,245,000	4,918,000
Offices Total	45,000	74,000	102,000	181,000	222,000
	2015	2016	2017	2018	2019
Total Electricity Use	1,306,000	1,830,000	2,462,000	3,427,000	5,140,000
Power Usage Effectiveness					
<u> </u>	2015	2016	2017	2018	2019
Annual Data Center PUE	1.09	1.10	1.10	1.11	1.11
Electricity Mix					
-	2015	2016	2017	2018	2019
Renewable	35%	44%	51%	75%	86%
Non-renewable	65%	56%	49%	25%	14%
Greenhouse Gas Emissions by Scope	`				
Market-Based	2015	2016	2017	2018	2019

2019	2018	2017	2016	2015	Market-Based
44,000	42,000	25,000	9,000	6,000	Scope 1
1%	4%	2%	1%	1%	Scope 1
208,000	314,000	591,000	545,000	444,000	Conno 3
3%	31%	54%	77%	71%	Scope 2
5,702,000	652,000	480,000	156,000	178,000	Scope 3
96%	65%	44%	22%	28%	Зсоре 3
5,954,000	1,008,000	1,096,000	710,000	628,000	Total

Location-Based	2015	2016	2017	2018	2019
Total	659,000	789,000	1,387,000	1,983,000	8,026,000

Operational Greenhouse Gas Emissions (market-based Scope 1 & 2 metric tons CO2e)^{5,6}

	2015	2016	2017	2018	2019
Altoona, IA	1,000	1,000	1,000	1,000	2,000
Clonee, Ireland	not yet online	0	<500	<500	<500
Forest City, NC	106,000	116,000	136,000	53,000	9,000
Fort Worth, TX	not yet online	<500	1,000	1,000	1,000
Luleå, Sweden	<500	<500	<500	<500	<500
New Albany, OH	not yet online	not yet online	not yet online	not yet online	<500
Odense, Denmark	not yet online	not yet online	not yet online	0	<500
Papillion, NE	not yet online	not yet online	not yet online	<500	<500
Prineville, OR	207,000	239,000	293,000	137,000	1,000
Henrico, VA	not yet online	not yet online	not yet online	not yet online	<500
Los Lunas, NM	not yet online	not yet online	not yet online	1,000	1,000
East Coast Leased Data Center Facility	81,000	115,000	98,000	102,000	188,000
Other Data Center-Related Facilities	28,000	45,000	40,000	17,000	4,000
Data Centers Total	423,000	516,000	568,000	314,000	207,000
Offices Total	28,000	39,000	48,000	42,000	44,000

	2015	2016	2017	2018	2019
Total Operational GHG Emissions	451,000	555,000	616,000	356,000	252,000
Progress against 75% operational emissions reduction target			Baseline	42%	59%

Market-Based vs. Location-Based Scope 2 Facilities GHG Emissions (metric tons CO2e)

	2017		201	8	2019		
	Market-Based	Location-Based	Market-Based	Location-Based	Market-Based	Location-Based	
Altoona, IA	0	283,000	0	346,000	0	483,000	
Clonee, Ireland	0	7,000	0	82,000	0	143,000	
Forest City, NC	135,000	159,000	52,000	201,000	8,000	208,000	
Fort Worth, TX	0	87,000	0	212,000	0	295,000	
Luleå, Sweden	0	4,000	0	7,000	0	6,000	
New Albany, OH	not yet online	not yet online	not yet online	not yet online	0	20,000	
Odense, Denmark	not yet online	not yet online	0	1,000	<500	18,000	
Papillion, NE	not yet online	not yet online	0	3,000	0	101,000	
Prineville, OR	293,000	127,000	137,000	145,000	0	167,000	
Henrico, VA	not yet online	not yet online	not yet online	not yet online	0	3,000	
Los Lunas, NM	not yet online	not yet online	0	12,000	0	135,000	
East Coast Leased Data Center Facility	98,000	106,000	102,000	128,000	188,000	193,000	
Data Centers Total	525,000	772,000	291,000	1,137,000	196,000	1,773,000	
Offices Total	26,000	35,000	6,000	60,000	8,000	72,000	
Total Facilities GHG Emissions	551,000	807,000	297,000	1,197,000	204,000	1,845,000	

Greenhouse Gas Intensity (market-based Scope 1 & 2 metric tons CO2e / monthly active person)

	2015	2016	2017	2018	2019
Annual GHG Intensity	0.00028	0.00030	0.00029	0.00015	0.00010

Value Chain Greenhouse Gas Emissions (Scope 3 metric tons CO2e)^{4,6}

	2015	2016	2017	2018	2019
Category 1: Purchased goods & services	data not available	data not available	data not available	data not available	2,191,000 38%
Category 2: Capital goods	data not available	data not available	data not available	data not available	2,371,000 42%
Category 3: Fuel & energy-related activities	data not available	data not available	data not available	data not available	110,000 2%
Construction ⁷	96,000	56,000	191,000	184,000	394,000 7%
Category 6: Business Travel ⁸	52,000	64,000	246,000	397,000	465,000 8%
Category 7: Employee Commuting	30,000	36,000	43,000	71,000	90,000 2%
Other applicable categories ⁹	data not available	data not available	data not available	data not available	82,000 1%
Total	178,000	156,000	480,000	652,000	5,702,000
Nater Withdrawal (cubic meters) ¹⁰	2015	2016	2017	2010	2010
Altoona IA	2015	2016	2017	2018	2019
Altoona, IA	44,000	87,000	106,000	139,000	145,000
Clonee, Ireland	not yet online	not yet online	10,000	188,000	395,000
Forest City, NC	99,000	123,000	129,000	99,000	85,000
Fort Worth, TX	not yet online	14,000	98,000	269,000	322,000
Luleå, Sweden	30,000	32,000	66,000	53,000	58,000
New Albany, OH Odense, Denmark	not yet online	not yet online	not yet online	not yet online	33,000
Papillion, NE	not yet online not yet online	not yet online not yet online	not yet online not yet online	not yet online not yet online	266,000 62,000
Prineville, OR	70,000	70,000	172,000	160,000	208,000
Henrico, VA	not yet online	not yet online	not yet online	not yet online	not yet online
Los Lunas, NM	not yet online	not yet online	not yet online	25,000	92,000
East Coast Leased Data Center Facility	245,000	400,000	473,000	533,000	1,011,000
Other Data Center-Related Facilities	78,000	98,000	85,000	264,000	54,000
Data Center Operations Total	566,000	825,000	1,139,000	1,730,000	2,731,000
Offices Total	227,000	305,000	470,000	638,000	699,000
	2015	2016	2017	2018	2019
Fotal Water Withdrawal	2015 793,000	2016 1,129,000	2017 1,609,000	2018 2,367,000	2019 3,430,000
Fotal Water Withdrawal Recycled Water					
Recycled Water	793,000	1,129,000	1,609,000	2,367,000	3,430,000
	793,000	1,129,000	1,609,000	2,367,000	3,430,000
Recycled Water	793,000 255,000	1,129,000 426,000	1,609,000 469,000	2,367,000 673,000	3,430,000 854,000
Nater Consumption (cubic meters) Total Water Consumption	793,000 255,000	1,129,000 426,000	1,609,000 469,000	2,367,000 673,000	3,430,000 854,000
Recycled Water Water Consumption (cubic meters)	793,000 255,000 2015 data not available	1,129,000 426,000 2016 data not available	1,609,000 469,000 2017 838,000	2,367,000 673,000 2018 1,279,000	3,430,000 854,000 2019 1,971,000
Nater Consumption (cubic meters) Total Water Consumption	793,000 255,000	1,129,000 426,000	1,609,000 469,000	2,367,000 673,000	3,430,000 854,000

2016

0.00061

2015

0.00050

Annual Water Intensity

2017

0.00076

2018

0.00102

2019

0.00137

¹Values are rounded; totals calculated before rounding throughout report.

²"Other data center-related facilities" includes facilities where Facebook used less than 100,000 MWh of electricity in the reporting year, such as warehouses or colocation facilities. Owned data centers are always reported by site, even if they were below this threshold.

³Scope 1, 2, & 3 greenhouse gas emissions are calculated based on the WRI/WBCSD Greenhouse Gas Protocol. Facebook's greenhouse gas inventory methodology is evaluated and improved annually.

⁴Scope 1 includes emissions from diesel, natural gas, and refrigerant from offices and data centers and from diesel and gasoline of the transportation fleet owned and controlled by Facebook. Scope 2 includes emissions from electricity of offices and warehouses leased, controlled, and owned by Facebook; electricity of data centers owned and leased (IT load) by Facebook; natural gas of offices and warehouses leased and serviced by Facebook; and purchased heat. Because Facebook does not control building operations in leased data center facilities, as of 2017, only emissions associated with its IT load electricity are included in Scope 2 emissions. Scope 3 emissions are indirect emissions throughout Facebook's value chain. Starting in 2019, Facebook included emissions from all relevant categories in Scope 3 emissions for 2015 to 2018 include business travel, employee commute, and construction.

⁵To ensure accurate tracking towards Facebook's 75% operational emissions reduction target, any material changes are also applied to the 2017 base year at minimum.

⁶In the 2019 reporting year, three updates to reporting were applied to 2017 (baseline year) and later inventories. 1) Vehicles operated by the Transportation team in support of commuting and inter-campus travel were previously counted in Scope 3 - Employee Commute; after re-visiting Facebook's operational control of these vehicles, it was determined they should be accounted for in Scope 1; 2) It was determined that Facebook overstimated natural gas emissions by including estimates for offices which do not in fact use natural gas; recalculations have been applied to the inventory to remove these inaccuracies; 3) Fugitive emissions from refrigerant losses at offices not under Facebook operational control were moved from Scope 2 to Scope 3.

⁷Scope 3 construction emissions are calculated from the combination of actual energy construction data from Category 3 and life cycle assessments from Category 2.

⁸Business travel in 2017 and later includes radiative forcing for air travel.

⁹This includes the following categories in Scope 3: upstream and downstream transportation and distribution, waste generated in operations, upstream leased assets, use of sold products, and end-of-life treatment of sold products

¹⁰Notes on Facebook's 2019 water withdrawal: a) 25% is recycled water; 1% is ground water and the remainder is provided by local utilities, and all unconsumed water is returned to utility-owned wastewater treatment plants; b) 38% of water withdrawal occurs in high water stress areas (determined using WRI's Aqueduct tool and Facebook knowledge on local water stress); c) Not included in these figures are an additional 504,000 cubic meters of water withdrawn for the construction of Facebook data centers.

¹¹Water Use Effectiveness (WUE) is calculated based on best available data, including internal flow meters, design estimates, and utility bills where applicable.