Sustainability

2020 Data Disclosures

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Electricity Use (MWh)

Total Electricity Use	1,830,000	2,462,000	3,427,000	5,140,000	7,170,000
Offices Total	74,000	102,000	181,000	222,000	204,000
Data Centers Total	1,756,000	2,360,000	3,245,000	4,918,000	6,966,000
Other Data Center-Related Facilities	118,000	135,000	133,000	113,000	206,000
East Coast Leased Data Center Facility	317,000	359,000	432,000	674,000	795,000
Los Lunas, NM	not yet online	not yet online	26,000	289,000	571,000
Henrico, VA	not yet online	not yet online	not yet online	10,000	204,000
Prineville, OR	327,000	426,000	488,000	573,000	686,000
Papillion, NE	not yet online	not yet online	5,000	178,000	519,000
Odense, Denmark	not yet online	not yet online	4,000	128,000	343,000
New Albany, OH	not yet online	not yet online	not yet online	38,000	270,000
Luleå, Sweden	295,000	301,000	337,000	373,000	369,000
Fort Worth, TX	16,000	189,000	461,000	695,000	941,000
Forest City, NC	339,000	433,000	547,000	614,000	595,000
Clonee, Ireland	1,000	1,000	200,000	382,000	487,000
Altoona, IA	342,000	500,000	612,000	853,000	980,000
	2016	2017	2018	2019	2020

Power Usage Effectiveness

	2016	2017	2018	2019	2020
Annual Data Center PUE	1.10	1.10	1.11	1.11	1.10

Electricity mix ³

	2016	2017	2018	2019	2020
Renewable	44%	51%	75%	86%	100%
Non-Renewable	56%	49%	25%	14%	0%

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Greenhouse Gas Emissions by Scope (metric tons ${\rm CO_2e}$) 4,5,6,7

	Total	789,000	1,387,000	1,983,000	6,295,000	7,555,000
Location	n-based	2016	2017	2018	2019	2020
1	Net Total	710,000	1,096,000	1,008,000	4,330,000	3,922,000
Carbon R	Removal ⁸					-145,000
	Total	710,000	1,096,000	1,008,000	4,330,000	4,067,000
		22%	44%	65%	94%	99%
	Scope 3	156,000	480,000	652,000	4,078,000	4,029,000
		77%	54%	31%	5%	<1%
	Scope 2	545,000	591,000	314,000	208,000	9,000
		1%	2%	4%	1%	1%
	Scope 1	9,000	25,000	42,000	44,000	29,000
Market	t-Based	2016	2017	2018	2019	2020

Operational Greenhouse Gas Emissions (market-based scope 1 & 2 metric tons ${\rm CO_2e}$) 9

Reduction From 2017 Baseline		Baseline	42%	59%	94%
Total Operational GHG Emissions	555,000	616,000	356,000	252,000	38,000
Offices Total	39,000	48,000	42,000	44,000	24,000
Data Centers Total	516,000	568,000	314,000	207,000	14,000
Other Data Center-Related Facilities	45,000	40,000	17,000	4,000	2,000
East Coast Leased Data Center Facility	115,000	98,000	102,000	188,000	0
Los Lunas, NM	not yet online	not yet online	1,000	1,000	<500
Henrico, VA	not yet online	not yet online	not yet online	<500	<500
Prineville, OR	239,000	293,000	137,000	1,000	3,000
Papillion, NE	not yet online	not yet online	<500	<500	3,000
Odense, Denmark	not yet online	not yet online	0	<500	<500
New Albany, OH	not yet online	not yet online	not yet online	<500	2,000
Luleå, Sweden	<500	<500	<500	<500	<500
Fort Worth, TX	<500	1,000	1,000	1,000	<500
Forest City, NC	116,000	136,000	53,000	9,000	<500
Clonee, Ireland	0	<500	<500	<500	1,000
Altoona, IA	1,000	1,000	1,000	2,000	1,000
	2016	2017	2018	2019	2020

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Market-Based vs. Location-Based Scope 2 Facilities GHG Emissions (metric tons CO_2e)

2020		2019		2018		
Location-based	Market-based	Location-based	Market-based	Location-based	Market-based	
555,000	0	483,000	0	346,000	0	Altoona, IA
159,000	0	143,000	0	82,000	0	Clonee, Ireland
202,000	0	208,000	8,000	201,000	52,000	Forest City, NC
399,000	0	295,000	0	212,000	0	Fort Worth, TX
7,000	0	6,000	0	7,000	0	Luleå, Sweden
157,000	0	20,000	0	not yet online	not yet online	New Albany, OH
57,000	0	18,000	<500	1,000	0	Odense, Denmark
294,000	0	101,000	0	3,000	0	Papillion, NE
200,000	0	167,000	0	145,000	137,000	Prineville, OR
69,000	0	3,000	0	not yet online	not yet online	Henrico, VA
266,000	0	135,000	0	12,000	0	Los Lunas, NM
223,000	0	193,000	188,000	128,000	102,000	East Coast Leased Data Center Facility
62,000	2,000	41,000	1,000	44,000	17,000	Other Data Center-Related Facilities
2,650,000	2,000	1,813,000	197,000	1,181,000	308,000	Data Centers Total
68,000	7,000	72,000	8,000	60,000	6,000	Offices Total
2,718,000	9,000	1,885,000	205,000	1,241,000	314,000	Total Facilities GHG Emissions

Greenhouse Gas Intensity (market-based scope 1 & 2 metric tons CO_2e / monthly active person)

	2016	2017	2018	2019	2020
HG Intensity C	0.00030 0	0.00029 0.	.00015 0	0.00008	0.000012

Value Chain Greenhouse Gas Emissions (scope 3 metric tons CO₂e) ^{10,11,12}

	Total	156,000	480,000	652,000	4,078,000	4,029,000
					2%	2%
Other Appl	icable Categories 10,12	data not available	data not available	data not available	96,000	100,000
					2%	2%
Category 7: Em	ployee Commuting ¹²	36,000	43,000	71,000	90,000	61,000
					13%	3%
Categor	y 6: Business Travel ¹¹	64,000	246,000	397,000	529,000	129,000
					6%	1%
Category 3: Fuel & Ener	gy-Related Activities	data not available	data not available	data not available	264,000	56,000
					41%	46%
Catego	ry 2: Capital Goods ¹⁰	data not available	data not available	data not available	1,671,000	1,837,000
					35%	46%
Category 1: Purchase	d Goods & Services ¹⁰	data not available	data not available	data not available	1,428,000	1,846,000
		2016	2017	2018	2019	2020

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Water Withdrawal (cubic meters) 13

Annual Water Intensity

	2016	2017	2018	2019	2020
Altoona, IA	87,000	106,000	139,000	145,000	151,000
Clonee, Ireland	not yet online	10,000	188,000	395,000	615,000
Forest City, NC	123,000	129,000	99,000	85,000	68,000
Fort Worth, TX	14,000	98,000	269,000	322,000	300,000
Luleå, Sweden	32,000	66,000	53,000	58,000	49,000
New Albany, OH	not yet online	not yet online	not yet online	33,000	35,000
Odense, Denmark	not yet online	not yet online	not yet online	266,000	360,000
Papillion, NE	not yet online	not yet online	not yet online	62,000	108,000
Prineville, OR	70,000	172,000	160,000	208,000	445,000
Henrico, VA	not yet online	not yet online	not yet online	not yet online	42,000
Los Lunas, NM	not yet online	not yet online	25,000	92,000	140,000
East Coast Leased Data Center Facility	400,000	473,000	533,000	1,011,000	645,000
Other Data Center-Related Facilities	98,000	85,000	264,000	54,000	42,000
Data Centers Total	825,000	1,139,000	1,730,000	2,731,000	3,000,000
Offices Total	305,000	470,000	638,000	699,000	726,000
Total Water Withdrawal	1,129,000	1,609,000	2,367,000	3,430,000	3,726,000
Recycled Water	426,000	469,000	673,000	854,000	643,000
· · · · · · · · · · · · · · · · · · ·		2017	2019	2010	2020
Water Consumption (cubic me	2016	2017	2018	2019	
Water Consumption (cubic me		2017 838,000	2018 1,279,000	2019 1,971,000	2020 2,202,000
Water Consumption (cubic me	2016				
Water Consumption (cubic me	2016				
Vater Consumption (cubic me	2016 data not available	838,000	1,279,000	1,971,000	2,202,000
Water Consumption (cubic me Total Water Consumption Water Usage Effectiveness	2016 data not available 2016 0.21	2017 0.24	2018 0.27	1,971,000 2019	2,202,000

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0.000755

0.00102

0.00120

0.00113

0.000607

- 1 Values are rounded and totals are calculated before rounding throughout this 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.
- 3 In owned and leased data center facilities included in scope 2 and 3 emissions, Facebook has matched building operations with renewable energy.
- 4 Facebook's methodology for calculating greenhouse gas emissions can be found here.
- 5 Scope 1, 2, and 3 greenhouse gas emissions are calculated annually based on the WRI/WBCSD Greenhouse Gas Protocol.
- **6 (a)** Scope 1 includes emissions from diesel, natural gas, and refrigerants from offices and data centers and from diesel and gasoline in the transportation fleet owned and controlled by Facebook.
- (b) 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.
- (c) Scope 3 emissions are indirect emissions throughout Facebook's value chain. Starting in 2019, Facebook included emissions from all relevant categories in Scope 3. Scope 3 emissions for 2015 to 2018 include business travel, employee commute, and construction.
- **7** To ensure accurate tracking towards Facebook's 75% operational emissions reduction target, any material changes are also applied to the 2017 base year, at minimum.
- 8 Prior to 2020, Facebook invested in avoided emissions offsets which are not considered carbon removal.
- 9 In the 2019 reporting year, three updates to reporting were applied to 2017 (baseline year) and later inventories:
- (a) 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 that they should be accounted for in Scope 1.
- (b) It was determined that Facebook overestimated 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.
- (c) Fugitive emissions from refrigerant losses at offices not under Facebook operational control were moved from Scope 2 to Scope 3.
- 10 In the 2020 reporting year, two emission factors updates have significantly impacted the GHG inventory:
- (a) Economic-Environmental Input-Output emission factors were updated and applied to relevant categeories. 2019 numbers have been updated to reflect these new emission factors.
- (b) Waste emission factors have been updated and applied starting in 2020.
- 11 In the 2020 reporting year, two updates to the methology were applied:
- (a) A new business travel methodology was developed, which was applied to 2019 and updated. Air travel still includes radiative forcing starting from 2017.
- (b) Employee commuting now includes telecommuting, or work-from-home, emissions starting in 2020, for which the electricity portion is matched with renewable energy.
- 12 This 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
- 13 Notes on Facebook's 2020 water withdrawal:
- (a) 17% is recycled water, 1% is ground and off-site water, and the remainder is provided by local utilities. All unconsumed water is returned to utility-owned wastewater treatment plants.
- (b) 25% 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 388,000 cubic meters of water withdrawn for the construction of Facebook data centers.
- 14 Water Use Effectiveness (WUE) is calculated based on best available data, including internal flow meters, design estimates, and utility bills where applicable.

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Thank you

We look forward to sharing more of our sustainability progress with you through future reports.

For more information, please visit: sustainability.fb.com