

Direct and indirect greenhouse gas emissions (GHG emissions) of Commerzbank AG

t CO <sub>2</sub> equivalents	2015		2016		2017	
	AG Germany <sup>1</sup>	AG abroad	AG Germany <sup>1</sup>	AG abroad	AG Germany <sup>1</sup>	AG abroad
SCOPE 1: DIRECT GHG EMISSIONS						
Energy supply	23,267	1,536	23,088	1,457	22,699	1,519
Natural gas	22,853	1,335	21,536	1,367	21,770	1,429
Heating oil <sup>2</sup>	303	180	1,433	48	843	50
Diesel for back-up power	111	21	119	42	86	40
Business travel (company car)	14,277	362	16,981	354	15,905	280
Bank vehicles	13,095	255	15,898	252	15,002	222
Pool vehicles	1,123	107	1,083	102	903	58
Coolant and extinguishing agent losses	689	–	465	–	347	–
Coolant	688	–	465	–	347	–
Fire extinguishing agent	1	–	0	–	0	–
Total Scope 1	38,183	1,898	40,354	1,811	38,951	1,798
Total Scope 1 AG	40,081		42,345		40,749	
SCOPE 2: INDIRECT GHG EMISSIONS (MARKET BASED)						
Energy supply	10,883	6,271	9,487	5,503	8,249	5,102
Electricity	0	6,069	0	5,224	0	4,928
District heating <sup>3</sup>	10,883	202	9,487	279	8,249	174
Total Scope 2 (market based)	10,883	6,271	9,487	5,503	8,249	5,102
Total Scope 2 AG	17,154		14,990		13,351	
SCOPE 2: INDIRECT GHG EMISSIONS (LOCATION BASED) <sup>4</sup>						
Energy supply	114,335	14,304	98,922	12,274	88,990	11,858
Electricity	103,452	14,102	89,435	11,995	80,741	11,684
District heating	10,883	202	9,487	279	8,249	174
Total Scope 2 (location based)	114,335	14,304	98,922	12,274	88,990	11,858
Total Scope 2 AG	128,639		111,196		100,848	
SCOPE 3: OTHER INDIRECT GHG EMISSIONS						
Paper consumption <sup>5</sup>	5,980	388	5,877	164	6,536	132
Energy supply	11,295	2,059	10,524	1,859	10,005	1,755
Natural gas (in upstream and downstream emissions)	6,672	390	6,288	399	6,356	417
Heating oil <sup>2</sup> (in upstream and downstream emissions)	55	32	260	8	153	9
Diesel back-up power (in upstream and downstream emissions)	20	4	22	8	15	7
District heating <sup>3</sup> (in upstream and downstream emissions)	3,071	57	2,677	79	2,328	49
Electricity from renewable energies <sup>6</sup> (pre-products and conversion losses)	1,477	1,576	1,277	1,365	1,153	1,273
Business travel with indirect impact	15,074	6,556	15,089	4,937	13,770	4,413
Air travel	4,632	6,122	3,724	4,542	3,232	4,110
Rail travel	762	66	662	75	779	60
Greenhouse gas emissions of up- and downstream emissions from direct road traffic <sup>7</sup>	6,648	272	7,933	266	7,429	203
Business trips with indirect impact	3,032	96	2,770	54	2,330	40
Logistic journeys	4,955	–	4,750	–	4,058	–
Commuting travel <sup>8</sup>	34,168	–	32,429	–	34,510	–
Water	335	51	304	27	275	26
Waste disposal <sup>9</sup>	210	206	155	410	130	258
Total Scope 3	72,017	9,260	69,128	7,397	69,283	6,584
Total Scope 3 AG	81,277		76,525		75,867	
Total overall (Scope 1, 2, 3)	121,083	17,429	119,149	14,711	116,483	13,484
Total overall (Scope 1, 2, 3) total AG	138,512		133,860		129,967	

<sup>1</sup> Commerzbank AG Germany without subsidiaries since 2016.

<sup>2</sup> Adjusted, realistically optimised projection method for AG Germany, 2017.

<sup>3</sup> Abroad, district heat is primarily used in Luxembourg. The number of jobs and the amount of space rented decreased here in 2017.

<sup>4</sup> Scope 2 (location based) listed for reasons of transparency but not included in total.

<sup>5</sup> Regulatory requirements increased the number externally printed matter in Germany significantly in 2017. Mostly (certified) virgin fibre paper is used.

<sup>6</sup> Renewable energy accounted for a 58.9% share abroad in 2017 (including share of respective country mix accounted for by renewable energy). As a result, renewable energy accounted for a share of 95.02% throughout the Group.

<sup>7</sup> Business travel accounted for 53.5% of company vehicle use at AG Germany in 2017. Figures for AG abroad are not available.

<sup>8</sup> Recent figures from the Federal Statistical Office indicate changes in the distance commuted daily, the share of public transport use and the percentage of car use in 2017. Commuting data was not calculated for AG abroad, as the statistical basis is valid only for Germany.

<sup>9</sup> The recycling share increased abroad from just under 33% to 39% in 2017.