

Carbon Accounting Report 2021

This report provides an overview of the organisation's greenhouse gas (GHG) emissions, which is an integrated part of the organisation's climate strategy. Carbon accounting is a fundamental tool in identifying tangible measures to reduce GHG emissions. The annual carbon accounting report enables the organisation to benchmark performance indicators and evaluate progress over time.

This report comprises the following organisational units:

The input data is based on consumption data from internal and external sources, which are converted into tonnes CO₂-equivalents (tCO₂e). The carbon footprint analysis is based on the international standard; *A Corporate Accounting and Reporting Standard*, developed by the Greenhouse Gas Protocol Initiative (GHG Protocol). The GHG Protocol is the most widely used and recognised international standard for measuring greenhouse gas emissions and is the basis for the ISO standard 14064-1.

Reporting Year Energy and GHG Emissions

Emission source	Description	Consumption	Unit	Energy (MWh)	Emissions tCO ₂ e	% share
Transportation total				281.8	66.2	0.7 %
Petrol	201490 THON KJØPESENTER NORD AS	698.0	liters	6.8	1.6	-
Petrol	203721 Amfi Drift Storebrand AS	62.0	liters	0.6	0.1	-
Petrol	101530 THON STORO AS	36.0	liters	0.3	0.1	-
Petrol	104540 TIME PARK SERVICE AS	3,361.0	liters	32.6	7.9	0.1 %
Petrol	203498 AMFI DRIFT AS	18,878.0	liters	182.9	44.2	0.5 %
Petrol	101560 Åsane Storsenter DA	1,199.0	liters	11.6	2.8	-
Petrol	201476 Thon Kjøpesenter Sør AS	152.0	liters	1.5	0.4	-
Diesel (NO)	203721 Amfi Drift Storebrand AS	218.0	liters	2.3	0.5	-
Diesel (NO)	101515 GARDERMOEN PARK AS	51.0	liters	0.5	0.1	-
Diesel (NO)	104540 TIME PARK SERVICE AS	3,167.0	liters	33.0	6.6	0.1 %
Diesel (NO)	203498 AMFI DRIFT AS	808.0	liters	8.4	1.7	-
Diesel (NO)	201476 Thon Kjøpesenter Sør AS	124.0	liters	1.3	0.3	-
Stationary combustion total				25.0	5.8	0.1 %
Propane (NO)		1,939.0	kg	25.0	5.8	0.1 %
Scope 1 total				306.8	72.0	0.8 %
District heating location total				38,455.3	552.8	6.0 %
District heating Norway mix	201481 Thon Kjøpesenter Midt AS	63,138.0	kWh	63.1	0.9	-
District heating Norway mix	201490 Thon Kjøpesenter Nord AS	637,392.0	kWh	637.4	9.3	0.1 %
District heating Norway mix	201461 AmCo Bygg Nærbo AS	264,531.0	kWh	264.5	3.9	-
District heating Norway mix	201053 Amfi Bygg Eidsvoll AS	201,610.0	kWh	201.6	2.9	-
District heating Norway mix	201469 Bårdshaug Nord AS	677,191.0	kWh	677.2	9.9	0.1 %
District heating Norway mix	201488 Thon Kjøpesenter Øst AS	756,990.0	kWh	757.0	11.1	0.1 %
District heating Norway mix	201466 Amfi Bygg Moa AS	700,011.0	kWh	700.0	10.2	0.1 %
District heating Norway mix	101530 Thon Storo AS	5,505,933.0	kWh	5,505.9	80.4	0.9 %
District heating Norway mix	101501 OTE Eiendom AS	11,139,647.0	kWh	11,139.6	162.6	1.8 %
District heating Norway mix	101515 Gardermoen Park AS	1,744,489.0	kWh	1,744.5	25.5	0.3 %
District heating Norway mix	201730 Amfi Bygg Longyearbyen AS	643,872.0	kWh	643.9	9.4	0.1 %
District heating Norway mix	50597 Sartor Storsenter AS (ikke fullt regnskap)	963,611.0	kWh	963.6	14.1	0.2 %
District heating Norway mix	201476 Thon Kjøpesenter Sør AS	1,956,911.0	kWh	1,956.9	28.6	0.3 %
District heating Norway mix	101523 Thon Åsane AS	835,711.0	kWh	835.7	12.2	0.1 %
District heating Norway mix	101532 Bergen Storsenter AS	477,918.0	kWh	477.9	7.0	0.1 %
District heating Norway mix	201471 Amfi Bygg Elverum AS	489,319.0	kWh	489.3	7.1	0.1 %
District heating Norway mix	55003 Sørlandsenteret Eiendom AS (ikke fullt regnsk)	1,924,295.0	kWh	1,924.3	28.1	0.3 %
District cooling NO/Nydalen	201488 Thon Kjøpesenter Øst AS	1,009,000.0	kWh	1,009.0	-	-
District cooling NO/Nydalen	101530 Thon Storo AS	2,805,200.0	kWh	2,805.2	-	-
District cooling NO/Nydalen	50597 Sartor Storsenter AS (ikke fullt regnskap)	282,281.0	kWh	282.3	-	-
District cooling NO/Nydalen	201476 Thon Kjøpesenter Sør AS	483,100.0	kWh	483.1	-	-
District cooling NO/Nydalen	101523 Thon Åsane AS	119,690.0	kWh	119.7	-	-
District cooling NO/Nydalen	55003 Sørlandsenteret Eiendom AS (ikke fullt regnsk)	2,117,460.0	kWh	2,117.5	-	-
District heating Sweden mix	301264 Fastighets AB Sollentuna Centrum	67,135.0	kWh	67.1	3.3	-
District heating Sweden mix	301262 Fastighets AB Hageby Centrum	2,588,883.0	kWh	2,588.9	126.3	1.4 %

Electricity total			127,993.9	3,967.8	43.4 %
Electricity Nordic mix	201481 Thon Kjøpesenter Midt AS	10,931,247.0 kWh	10,931.2	338.9	3.7 %
Electricity Nordic mix	201490 Thon Kjøpesenter Nord AS	9,026,653.0 kWh	9,026.7	279.8	3.1 %
Electricity Nordic mix	201460 Drøbak City AS	810,929.0 kWh	810.9	25.1	0.3 %
Electricity Nordic mix	201461 AmCo Bygg Nærbo AS	1,533,011.0 kWh	1,533.0	47.5	0.5 %
Electricity Nordic mix	201053 Amfi Bygg Eidsvoll AS	850,552.0 kWh	850.6	26.4	0.3 %
Electricity Nordic mix	101550 Vestkanten AS	6,285,193.0 kWh	6,285.2	194.8	2.1 %
Electricity Nordic mix	201496 Amfi Bygg Fauske AS	739,631.0 kWh	739.6	22.9	0.3 %
Electricity Nordic mix	201469 Bårdshaug Nord AS	1,001,088.0 kWh	1,001.1	31.0	0.3 %
Electricity Nordic mix	201488 Thon Kjøpesenter Øst AS	5,518,905.0 kWh	5,518.9	171.1	1.9 %
Electricity Nordic mix	201432 Eiendomselskapet Bryggerikvartalet AS	1,239,972.0 kWh	1,240.0	38.4	0.4 %
Electricity Nordic mix	201473 Sogningen Storsenter AS	1,519,280.0 kWh	1,519.3	47.1	0.5 %
Electricity Nordic mix	201466 Amfi Bygg Moa AS	4,167,000.0 kWh	4,167.0	129.2	1.4 %
Electricity Nordic mix	101530 Thon Storo AS	7,001,913.0 kWh	7,001.9	217.1	2.4 %
Electricity Nordic mix	201493 Thon Kjøpesenter Vest AS	3,615,139.0 kWh	3,615.1	112.1	1.2 %
Electricity Nordic mix	101501 OTE Eiendom AS	20,509,978.0 kWh	20,510.0	635.8	6.9 %
Electricity Nordic mix	101515 Gardermoen Park AS	1,758,012.0 kWh	1,758.0	54.5	0.6 %
Electricity Nordic mix	203498 Amfi Drift AS	640,882.0 kWh	640.9	19.9	0.2 %
Electricity Nordic mix	201730 Amfi Bygg Longyearbyen AS	155,471.0 kWh	155.5	4.8	0.1 %
Electricity Nordic mix	50597 Sartor Storsenter AS (ikke fullt regnskap)	2,037,603.0 kWh	2,037.6	63.2	0.7 %
Electricity Nordic mix	201702 Dølastugu Eiendom AS	468,154.0 kWh	468.2	14.5	0.2 %
Electricity Nordic mix	101560 Åsane Storsenter DA	1,828,244.0 kWh	1,828.2	56.7	0.6 %
Electricity Nordic mix	201476 Thon Kjøpesenter Sør AS	5,242,090.0 kWh	5,242.1	162.5	1.8 %
Electricity Nordic mix	101510 Jessheim Storsenter AS	4,554,057.0 kWh	4,554.1	141.2	1.5 %
Electricity Nordic mix	201741 Vålerveien 257 AS	2,042,058.0 kWh	2,042.1	63.3	0.7 %
Electricity Nordic mix	101523 Thon Åsane AS	1,002,573.0 kWh	1,002.6	31.1	0.3 %
Electricity Nordic mix	201453 Amco Bygg 2 Nærbo AS	623,548.0 kWh	623.5	19.3	0.2 %
Electricity Nordic mix	301264 Fastighets AB Sollentuna Centrum	10,037,427.0 kWh	10,037.4	311.2	3.4 %
Electricity Nordic mix	101532 Bergen Storsenter AS	2,268,602.0 kWh	2,268.6	70.3	0.8 %
Electricity Nordic mix	201471 Amfi Bygg Elverum AS	926,362.0 kWh	926.4	28.7	0.3 %
Electricity Nordic mix	201758 Coop Rørvik Eiendom AS	1,127,629.0 kWh	1,127.6	35.0	0.4 %
Electricity Nordic mix	301265 Fastighets AB Överby Köpcentrum	3,220,695.0 kWh	3,220.7	99.8	1.1 %
Electricity Nordic mix	201054 Amfi Bygg Årnes AS	889,214.0 kWh	889.2	27.6	0.3 %
Electricity Nordic mix	201823 OTI-Senteret Eiendom AS	806,548.0 kWh	806.5	25.0	0.3 %
Electricity Nordic mix	301262 Fastighets AB Hageby Centrum	6,418,282.0 kWh	6,418.3	199.0	2.2 %
Electricity Nordic mix	55003 Sørlandsenteret Eiendom AS (ikke fullt regnsk)	2,987,746.0 kWh	2,987.7	92.6	1.0 %
Electricity Nordic mix	201800 Molde Storsenter AS	1,221,247.0 kWh	1,221.2	37.9	0.4 %
Electricity Nordic mix	301266 Mitticity i Karlstad Fastighets AB	2,986,928.0 kWh	2,986.9	92.6	1.0 %
District heating general total			279.1	-	-
Local cooling, renewable	101530 Thon Storo AS	279,070.0 kWh	279.1	-	-
Scope 2 total			166,728.3	4,520.6	49.4 %
Business travel total			-	35.2	0.4 %
Continental/Nordic, RF	201481 Thon Kjøpesenter Midt AS	6,318.0 pkm	-	1.0	-
Continental/Nordic, RF	201490 Thon Kjøpesenter Nord AS	52,331.0 pkm	-	8.0	0.1 %
Continental/Nordic, RF	204497 Amfi Kreativ AS	9,238.0 pkm	-	1.4	-
Continental/Nordic, RF	201496 Amfi Bygg Fauske AS	2,360.0 pkm	-	0.4	-

Continental/Nordic, RF	201469 BAardshaug Nord AS	3,602.0	pkm	-	0.6	-
Continental/Nordic, RF	203721 Amfi Drift Storebrand AS	5,892.0	pkm	-	0.9	-
Continental/Nordic, RF	203498 Amfi Drift AS	137,825.0	pkm	-	21.2	0.2 %
Continental/Nordic, RF	201730 Amfi Bygg Longyearbyen AS	4,040.0	pkm	-	0.6	-
Continental/Nordic, RF	101560 Aasane Storsenter DA	654.0	pkm	-	0.1	-
Continental/Nordic, RF	201476 Thon Kjoepesenter Soer AS	4,066.0	pkm	-	0.6	-
Continental/Nordic, RF	201758 Coop Roervik Eiendom AS	1,754.0	pkm	-	0.3	-
Continental/Nordic, RF	55003 Soerlandsenteret Eiendom AS (ikke full regnsk)	560.0	pkm	-	0.1	-
Continental/Nordic, RF	201800 Molde Storsenter AS	702.0	pkm	-	0.1	-
Waste total				-	4,521.6	49.4 %
Organic waste, recycled		991,115.0	kg	-	21.1	0.2 %
Plastic waste, incinerated		169,076.0	kg	-	400.4	4.4 %
Cardboard waste, recycled		5,541,023.0	kg	-	118.0	1.3 %
Glass waste, recycled		410,306.0	kg	-	8.7	0.1 %
EE waste, recycled		224,920.0	kg	-	4.8	0.1 %
Paper waste, recycled		1,253,524.0	kg	-	26.7	0.3 %
Industrial waste, recycled		36,339.0	kg	-	0.8	-
Plastic waste, recycled		256,212.0	kg	-	5.5	0.1 %
Mineral wool waste, recycled (CL)		1,868.0	kg	-	-	-
Concrete waste, recycled		4,180.0	kg	-	-	-
Residual waste, incinerated		7,553,519.0	kg	-	3,791.9	41.4 %
Plasterboard waste, recycled		35,460.0	kg	-	0.8	-
Hazardous waste, incinerated		30,489.0	kg	-	73.7	0.8 %
Hazardous waste, recycled		27,858.0	kg	-	0.6	-
Metal waste, recycled		393,882.0	kg	-	8.4	0.1 %
Wood waste, recycled		629,761.0	kg	-	13.4	0.1 %
Hazardous waste, landfill		65.0	kg	-	-	-
Residual waste, landfill		103,157.0	kg	-	46.0	0.5 %
Soils contaminated, landfill		52,820.0	kg	-	0.9	-
Special waste		60.0	kg	-	-	-
Waste water treatment		210.0	kg	-	-	-
Scope 3 total				-	4,556.8	49.8 %
Total				167,035.0	9,149.4	100.0 %
KJ				601,326,057,348.0		

Reporting Year Market-Based GHG Emissions

Category	Unit	2021
Electricity market-based	tCO ₂ e	29,822.6
Scope 2 market-based	tCO ₂ e	30,375.3
Total market-based	tCO ₂ e	35,004.2

Annual GHG Emissions

Category	Description	2019	2020	2021	% change from previous year
Transportation total		-	73.8	66.2	-10.4 %
Diesel (NO)	201481 Thon Kjøpesenter Midt AS	-	0.5	-	-100.0 %
Diesel (NO)	201490 Thon Kjøpesenter Nord AS	-	4.0	-	-100.0 %
Diesel (NO)	201460 Droebak City AS	-	4.0	-	-100.0 %
Diesel (NO)	101530 Thon Storo AS	-	4.8	-	-100.0 %
Diesel (NO)	101501 OTE Eiendom AS	-	1.7	-	-100.0 %
Diesel (NO)	101515 Gardermoen Park AS	-	0.4	-	-100.0 %
Diesel (NO)	101500 Olav Thon Eiendomsselskap ASA	-	1.6	-	-100.0 %
Diesel (NO)	104540 Time Park Service AS	-	7.4	-	-100.0 %
Diesel (NO)	203498 Amfi Drift AS	-	2.9	-	-100.0 %
Diesel (NO)	201476 Thon Kjøpesenter Soer AS	-	0.3	-	-100.0 %
Diesel (NO)	101532 Bergen Storsenter AS	-	0.2	-	-100.0 %
Diesel (NO)	203721 Amfi Drift Storebrand AS	-	-	0.5	100.0 %
Diesel (NO)	101515 GARDERMOEN PARK AS	-	-	0.1	100.0 %
Diesel (NO)	104540 TIME PARK SERVICE AS	-	-	6.6	100.0 %
Diesel (NO)	203498 AMFI DRIFT AS	-	-	1.7	100.0 %
Diesel (NO)	201476 Thon Kjøpesenter Sør AS	-	-	0.3	100.0 %
Petrol	201481 Thon Kjøpesenter Midt AS	-	-	-	-100.0 %
Petrol	201490 Thon Kjøpesenter Nord AS	-	0.3	-	-100.0 %
Petrol	201460 Droebak City AS	-	-	-	-100.0 %
Petrol	101530 Thon Storo AS	-	-	-	-100.0 %
Petrol	101501 OTE Eiendom AS	-	0.1	-	-100.0 %
Petrol	101515 Gardermoen Park AS	-	0.6	-	-100.0 %
Petrol	101500 Olav Thon Eiendomsselskap ASA	-	0.1	-	-100.0 %
Petrol	104540 Time Park Service AS	-	6.8	-	-100.0 %
Petrol	203498 Amfi Drift AS	-	38.0	-	-100.0 %
Petrol	201476 Thon Kjøpesenter Soer AS	-	0.1	-	-100.0 %
Petrol	101532 Bergen Storsenter AS	-	-	-	-100.0 %
Petrol	201490 THON KJØPESENTER NORD AS	-	-	1.6	100.0 %
Petrol	203721 Amfi Drift Storebrand AS	-	-	0.1	100.0 %
Petrol	101530 THON STORO AS	-	-	0.1	100.0 %
Petrol	104540 TIME PARK SERVICE AS	-	-	7.9	100.0 %
Petrol	203498 AMFI DRIFT AS	-	-	44.2	100.0 %
Petrol	101560 Åsane Storsenter DA	-	-	2.8	100.0 %
Petrol	201476 Thon Kjøpesenter Sør AS	-	-	0.4	100.0 %
Stationary combustion total		-	-	5.8	-
Propane (NO)		-	-	5.8	100.0 %
Scope 1 total		-	73.8	72.0	-2.5 %
Electricity total		-	4,702.0	3,967.8	-15.6 %
Electricity Nordic mix		-	4,702.0	-	-100.0 %
Electricity Nordic mix	201481 Thon Kjøpesenter Midt AS	-	-	338.9	100.0 %
Electricity Nordic mix	201490 Thon Kjøpesenter Nord AS	-	-	279.8	100.0 %
Electricity Nordic mix	201460 Drøbak City AS	-	-	25.1	100.0 %
Electricity Nordic mix	201461 AmCo Bygg Nærbø AS	-	-	47.5	100.0 %

Electricity Nordic mix	201053 Amfi Bygg Eidsvoll AS	-	-	26.4	100.0 %
Electricity Nordic mix	101550 Vestkanten AS	-	-	194.8	100.0 %
Electricity Nordic mix	201496 Amfi Bygg Fauske AS	-	-	22.9	100.0 %
Electricity Nordic mix	201469 Bårdshaug Nord AS	-	-	31.0	100.0 %
Electricity Nordic mix	201488 Thon Kjøpesenter Øst AS	-	-	171.1	100.0 %
Electricity Nordic mix	201432 Eiendomselskapet Bryggerikvartalet AS	-	-	38.4	100.0 %
Electricity Nordic mix	201473 Sogningen Storsenter AS	-	-	47.1	100.0 %
Electricity Nordic mix	201466 Amfi Bygg Moa AS	-	-	129.2	100.0 %
Electricity Nordic mix	101530 Thon Storo AS	-	-	217.1	100.0 %
Electricity Nordic mix	201493 Thon Kjøpesenter Vest AS	-	-	112.1	100.0 %
Electricity Nordic mix	101501 OTE Eiendom AS	-	-	635.8	100.0 %
Electricity Nordic mix	101515 Gardermoen Park AS	-	-	54.5	100.0 %
Electricity Nordic mix	203498 Amfi Drift AS	-	-	19.9	100.0 %
Electricity Nordic mix	201730 Amfi Bygg Longyearbyen AS	-	-	4.8	100.0 %
Electricity Nordic mix	50597 Sartor Storsenter AS (ikke fullt regnskap)	-	-	63.2	100.0 %
Electricity Nordic mix	201702 Dølastugu Eiendom AS	-	-	14.5	100.0 %
Electricity Nordic mix	101560 Åsane Storsenter DA	-	-	56.7	100.0 %
Electricity Nordic mix	201476 Thon Kjøpesenter Sør AS	-	-	162.5	100.0 %
Electricity Nordic mix	101510 Jessheim Storsenter AS	-	-	141.2	100.0 %
Electricity Nordic mix	201741 Vålerveien 257 AS	-	-	63.3	100.0 %
Electricity Nordic mix	101523 Thon Åsane AS	-	-	31.1	100.0 %
Electricity Nordic mix	201453 Amco Bygg 2 Nærbø AS	-	-	19.3	100.0 %
Electricity Nordic mix	301264 Fastighets AB Sollentuna Centrum	-	-	311.2	100.0 %
Electricity Nordic mix	101532 Bergen Storsenter AS	-	-	70.3	100.0 %
Electricity Nordic mix	201471 Amfi Bygg Elverum AS	-	-	28.7	100.0 %
Electricity Nordic mix	201758 Coop Rørvik Eiendom AS	-	-	35.0	100.0 %
Electricity Nordic mix	301265 Fastighets AB Överbý Köpcentrum	-	-	99.8	100.0 %
Electricity Nordic mix	201054 Amfi Bygg Årnes AS	-	-	27.6	100.0 %
Electricity Nordic mix	201823 OTI-Senteret Eiendom AS	-	-	25.0	100.0 %
Electricity Nordic mix	301262 Fastighets AB Hageby Centrum	-	-	199.0	100.0 %
Electricity Nordic mix	55003 Sørlandsenteret Eiendom AS (ikke fullt regnsk)	-	-	92.6	100.0 %
Electricity Nordic mix	201800 Molde Storsenter AS	-	-	37.9	100.0 %
Electricity Nordic mix	301266 Mitticity i Karlstad Fastighets AB	-	-	92.6	100.0 %
District heating location total		-	-	552.8	-
District heating Norway mix	201481 Thon Kjøpesenter Midt AS	-	-	0.9	100.0 %
District heating Norway mix	201490 Thon Kjøpesenter Nord AS	-	-	9.3	100.0 %
District heating Norway mix	201461 AmCo Bygg Nærbø AS	-	-	3.9	100.0 %
District heating Norway mix	201053 Amfi Bygg Eidsvoll AS	-	-	2.9	100.0 %
District heating Norway mix	201469 Bårdshaug Nord AS	-	-	9.9	100.0 %
District heating Norway mix	201488 Thon Kjøpesenter Øst AS	-	-	11.1	100.0 %
District heating Norway mix	201466 Amfi Bygg Moa AS	-	-	10.2	100.0 %
District heating Norway mix	101530 Thon Storo AS	-	-	80.4	100.0 %
District heating Norway mix	101501 OTE Eiendom AS	-	-	162.6	100.0 %
District heating Norway mix	101515 Gardermoen Park AS	-	-	25.5	100.0 %
District heating Norway mix	201730 Amfi Bygg Longyearbyen AS	-	-	9.4	100.0 %
District heating Norway mix	50597 Sartor Storsenter AS (ikke fullt regnskap)	-	-	14.1	100.0 %
District heating Norway mix	201476 Thon Kjøpesenter Sør AS	-	-	28.6	100.0 %

District heating Norway mix	101523 Thon Åsane AS	-	-	12.2	100.0 %
District heating Norway mix	101532 Bergen Storsenter AS	-	-	7.0	100.0 %
District heating Norway mix	201471 Amfi Bygg Elverum AS	-	-	7.1	100.0 %
District heating Norway mix	55003 Sørlandsenteret Eiendom AS (ikke fullt regnsk)	-	-	28.1	100.0 %
District cooling NO/Nydalen	201488 Thon Kjøpesenter Øst AS	-	-	-	100.0 %
District cooling NO/Nydalen	101530 Thon Storo AS	-	-	-	100.0 %
District cooling NO/Nydalen	50597 Sartor Storsenter AS (ikke fullt regnskap)	-	-	-	100.0 %
District cooling NO/Nydalen	201476 Thon Kjøpesenter Sør AS	-	-	-	100.0 %
District cooling NO/Nydalen	101523 Thon Åsane AS	-	-	-	100.0 %
District cooling NO/Nydalen	55003 Sørlandsenteret Eiendom AS (ikke fullt regnsk)	-	-	-	100.0 %
District heating Sweden mix	301264 Fastighets AB Sollentuna Centrum	-	-	3.3	100.0 %
District heating Sweden mix	301262 Fastighets AB Hageby Centrum	-	-	126.3	100.0 %
District heating general total		-	-	-	-
Local cooling, renewable	101530 Thon Storo AS	-	-	-	100.0 %
Scope 2 total		-	4,702.0	4,520.6	-3.9 %
Waste total		-	3,437.2	4,521.6	31.5 %
Residual waste, incinerated		-	3,231.8	3,791.9	17.3 %
Residual waste, recycled		-	190.0	-	-100.0 %
Residual waste, landfill		-	15.4	46.0	198.3 %
Organic waste, recycled		-	-	21.1	100.0 %
Plastic waste, incinerated		-	-	400.4	100.0 %
Cardboard waste, recycled		-	-	118.0	100.0 %
Glass waste, recycled		-	-	8.7	100.0 %
EE waste, recycled		-	-	4.8	100.0 %
Paper waste, recycled		-	-	26.7	100.0 %
Industrial waste, recycled		-	-	0.8	100.0 %
Plastic waste, recycled		-	-	5.5	100.0 %
Mineral wool waste, recycled (CL)		-	-	-	100.0 %
Concrete waste, recycled		-	-	-	100.0 %
Plasterboard waste, recycled		-	-	0.8	100.0 %
Hazardous waste, incinerated		-	-	73.7	100.0 %
Hazardous waste, recycled		-	-	0.6	100.0 %
Metal waste, recycled		-	-	8.4	100.0 %
Wood waste, recycled		-	-	13.4	100.0 %
Hazardous waste, landfill		-	-	-	100.0 %
Soils contaminated, landfill		-	-	0.9	100.0 %
Special waste		-	-	-	100.0 %
Waste water treatment		-	-	-	100.0 %
Business travel total		-	5.9	35.2	492.5 %
Continental/Nordic, RF	204497 Amfi Kreativ AS	-	1.4	1.4	-1.5 %
Continental/Nordic, RF	101530 Thon Storo AS	-	0.2	-	-100.0 %
Continental/Nordic, RF	101560 Aasane Storsenter DA	-	-	0.1	-
Continental/Nordic, RF	201011 Amfi Bygg Roseby AS	-	-	-	-100.0 %
Continental/Nordic, RF	201481 Thon Kjøpesenter Midt AS	-	-	1.0	100.0 %
Continental/Nordic, RF	201490 Thon Kjøpesenter Nord AS	-	-	8.0	100.0 %
Continental/Nordic, RF	201496 Amfi Bygg Fauske AS	-	-	0.4	100.0 %
Continental/Nordic, RF	201469 BAardshaug Nord AS	-	-	0.6	100.0 %
Continental/Nordic, RF	203721 Amfi Drift Storebrand AS	-	-	0.9	100.0 %

Continental/Nordic, RF	203498 Amfi Drift AS	-	-	21.2	100.0 %
Continental/Nordic, RF	201730 Amfi Bygg Longyearbyen AS	-	-	0.6	100.0 %
Continental/Nordic, RF	201476 Thon Kjoepesenter Soer AS	-	-	0.6	100.0 %
Continental/Nordic, RF	201758 Coop Roervik Eiendom AS	-	-	0.3	100.0 %
Continental/Nordic, RF	55003 Soerlandsenteret Eiendom AS (ikke fullt regnsk)	-	-	0.1	100.0 %
Continental/Nordic, RF	201800 Molde Storsenter AS	-	-	0.1	100.0 %
Domestic, RF	204497 Amfi Kreativ AS	-	3.8	-	-100.0 %
Domestic, RF	101530 Thon Storo AS	-	-	-	-100.0 %
Domestic, RF	101560 Aasane Storsenter DA	-	0.2	-	-100.0 %
Domestic, RF	201011 Amfi Bygg Roseby AS	-	0.3	-	-100.0 %
Scope 3 total		-	3,443.2	4,556.8	32.3 %
Total		-	8,219.0	9,149.4	11.3 %
Percentage change		-	100.0 %	11.3 %	

Annual energy consumption (MWh) Scope 1 & 2

#energy_column_chart#

Annual Market-Based GHG Emissions

Category	Unit	2019	2020	2021
Electricity market-based	tCO ₂ e	-	30,161.3	29,822.6
Scope 2 market-based	tCO ₂ e	-	30,161.3	30,375.3
Total market-based	tCO ₂ e	-	33,678.3	35,004.2
Percentage change		-	100.0 %	3.9 %

Methodology and sources

The Greenhouse Gas Protocol initiative (GHG Protocol) was developed by the World Resources Institute (WRI) and World Business Council for Sustainable Development (WBCSD). This analysis is done according to *A Corporate Accounting and Reporting Standard Revised edition*, currently one of four GHG Protocol accounting standards on calculating and reporting GHG emissions. The reporting considers the following greenhouse gases, all converted into CO₂-equivalents: CO₂, CH₄ (methane), N₂O (laughing gas), SF₆, HFCs, PFCs and NF₃.

For corporate reporting, two distinct approaches can be used to consolidate GHG emissions: the equity share approach and the control approach. The most common consolidation approach is the control approach, which can be defined in either financial or operational terms.

The carbon inventory is divided into three main scopes of direct and indirect emissions.

Scope 1 includes all direct emission sources. This includes all use of fossil fuels for stationary combustion or transportation, in owned and, depending on the consolidation approach selected, leased, or rented assets. It also includes any process emissions, from e.g. chemical processes, industrial gases, direct methane emissions etc.

Scope 2 includes indirect emissions related to purchased energy; electricity and heating/cooling where the organisation has operational control. The electricity emission factors used in Cemsys are based on national gross electricity production mixes from the International Energy Agency's statistics (IEA Stat). Emission factors per fuel type are based on assumptions in the IEA methodological framework. Factors for district heating/cooling are either based on actual (local) production mixes, or average IEA statistics.

In January 2015, the GHG Protocol published new guidelines for calculating emissions from electricity consumption. Primarily two methods are used to "allocate" the GHG emissions created by electricity generation to the end consumers of a given grid. These are the location-based and the market-based methods. The location-based method reflects the average emission intensity of the grids on which energy consumption occurs, while the market-based method reflects emissions from electricity that companies have purposefully chosen (or not chosen).

Organisations who report on their GHG emissions will now have to disclose both the location-based emissions from the production of electricity, and the market-based emissions related to the potential purchase of Guarantees of Origin (GoOs) and Renewable Energy Certificates (RECs).

The purpose of this amendment in the reporting methodology is on the one hand to show the impact of energy efficiency measures, and on the other hand to display how the acquisition of GoOs or RECs affect the GHG emissions. Using both methods in the emission reporting highlights the effect of all measures regarding electricity consumption.

The location-based method: The location-based method is based on statistical emissions information and electricity output aggregated and averaged within a defined geographic boundary and during a defined time period. Within this boundary, the different energy producers utilize a mix of energy resources, where the use of fossil fuels (coal, oil, and gas) result in direct GHG-emissions. These emissions are reflected in the location-based emission factor.

The market-based method: The choice of emission factors when using this method is determined by whether the business acquires GoOs/RECs or not. When selling GoOs or RECs, the supplier certifies that the electricity is produced exclusively by renewable sources, which has an emission factor of 0 grams CO₂e per kWh. However, for electricity without the GoO or REC, the emission factor is based on the remaining electricity production after all GoOs and RECs for renewable energy are sold. This is called a residual mix, which is normally substantially higher than the location-based factor. As an example, the market-based Norwegian residual mix factor is approximately 7 times higher than the location-based Nordic mix factor. The reason for this high factor is due to Norway's large export of GoOs/RECs to foreign consumers. In a

market perspective, this implies that Norwegian hydropower is largely substituted with an electricity mix including fossil fuels.

Scope 3 includes indirect emissions resulting from value chain activities. The scope 3 emissions are a result of the company's upstream and downstream activities, which are not controlled by the company, i.e. they are indirect. Examples are business travel, goods transportation, waste handling, consumption of products etc.

In general, the carbon accounting should include information that users, both internal and external to the company, need for their decision making. An important aspect of relevance is the selection of an appropriate inventory boundary which reflects the substance and economic reality of the company's business relationships.