

Greenhouse Gas Protocol (Dual Reporting) Report for SBAB

Assessment Period: 2018

Produced on March 27, 2019 by Our Impacts on behalf of U&W

Assessment Details

Consolidation Approach

Operational Control

Organisational Boundaries

Operations of SBAB

Included

- SBAB
- Göteborg
- Karlstad
- Malmö
- Stockholm

Operational Boundary

- Air travel
- Cars
- Copy Paper
- · District cooling
- District heating
- Electricity
- Employee owned cars (unknown fuel)
- Incinerated waste
- Rail (train, tram, light rail, underground)
- Recycled waste
- Taxi
- Water supply

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Introduction

A greenhouse gas (GHG) emissions assessment quantifies the total greenhouse gases produced directly and indirectly from a business or organisation's activities. Also known as a carbon footprint, it is an essential tool, providing your business with a basis for understanding and managing its climate change impacts.

A GHG assessment quantifies all seven Kyoto greenhouse gases where applicable and is measured in units of carbon dioxide equivalence, or CO_2e^1 . The seven Kyoto gases are carbon dioxide (CO_2) , methane (CH_4) , nitrous oxide (N_2O) , hydrofluorocarbons (HFCs), nitrogen trifluoride (NF_2) , sulphur hexafluoride (SF_2) and perfluorocarbons (PFCs). The global warming potential (GWP) of each gas is illustrated in the Table 1.

Table 1. GWP of Kyoto Gases (IPCC 2007)

Greenhouse Gas	GWP
Carbon dioxide (CO ₂)	1
Methane (CH ₄)	25
Nitrous oxide (N ₂ O)	298
Hydrofluorocarbons (HFCs)	124 - 14,800
Perfluorocarbons (PFCs)	7,390 - 12,200
Nitrogen trifluoride (NF ₃)	17,200
Sulphur hexafluoride (SF ₆)	22,800

This assessment has been carried out in accordance with the World Business Council for Sustainable Development and World Resources Institute's (WBCSD/WRI) Greenhouse Gas Protocol; a Corporate Accounting and Reporting Standard, including the GHG Protocol Scope 2 Guidance. This protocol is considered current best practice for corporate or organisational greenhouse gas emissions reporting. GHG emissions have been reported by the three WBCSD/WRI Scopes.

Scope 1 includes direct GHG emissions from sources that are owned or controlled by the company such as natural gas combustion and company owned vehicles.

Scope 2 accounts for GHG emissions from the generation of purchased electricity, heat and steam generated off-site. As the subject of this assessment operates in markets which offer contractual instruments with product or supplier-specific data, scope 2 emissions are reported using both the location-based method and the market-based method. The location-based method applies average emission factors that correspond to the grid where consumption occurs, whereas the market-based method applies emission factors that correspond to energy purchased (or not purchased) through contractual instruments. Contractual instruments include energy attribute certificates, direct energy contracts, and supplier specific emission rates. The subject of this assessment has ensured that any contractual instruments used in the market-based method have met the Scope 2 Quality Criteria, as defined in the Guidance. Where contractual instruments do not meet the Quality Criteria, or where contractual instruments were not purchased, market-based scope 2 emissions have been calculated using residual mix emission factors. Where residual mix emission factors are not available, market-based scope 2 emissions have been calculated using default location grid-average emission factors, per the Protocol hierarchy. This may result in double counting between electricity consumers, as an adjusted emission factor taking into account voluntary purchases of electricity with specific attributes was not available.

Scope 3 includes all other indirect emissions such as waste disposal, business travel and staff commuting. Reporting of these activities is optional under the WBCSD/WRI GHG Protocol, but as they can contribute a significant portion of overall emissions Ecometrica recommends they are reported where applicable.

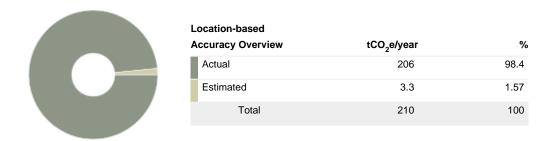
A GHG assessment is an essential tool in the process of monitoring and reducing an organisation's climate change impact as it allows reduction targets to be set and action plans formulated. GHG assessment results can also allow organisations to be transparent about their climate change impacts through reporting of GHG emissions to customers, shareholders, employees and other stakeholders. Regular assessments allow clients to track their progress in achieving reductions over time and provide evidence to support green claims in external marketing initiatives such as product labelling or CSR reporting. Ecometrica GHG assessments are designed to be transparent, consistent and repeatable over time.

¹ Carbon dioxide equivalent or CO₂e is a term for describing different greenhouse gases in a common unit. For any quantity and type of greenhouse gas, CO₂e signifies the amount of CO₂ which would have the equivalent global warming impact.

Data Quality and Availability

In order to provide the most accurate estimate of an organisation's GHG emissions, primary (actual) data should be used where it is available, up to date and geographically relevant. Secondary data in the form of estimates, extrapolations and industry averages may be used when primary data is not available. Table 2 details the quality of data submitted for this assessment with the key assumptions used stated below.

Data Quality Overview



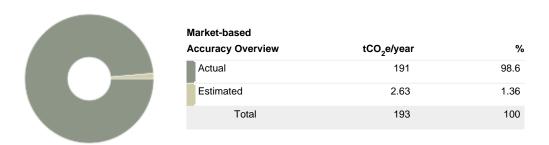


Table 2. Data Quality and Availability

Source of emissions	Data quality
Premises	
District cooling	Actual
District heating	Mixed
Electricity	Mixed
Incinerated waste	Actual
Recycled waste	Actual
Water supply	Mixed
Company owned vehicles	
Cars	Actual
Business Travel	
Air travel	Actual
Employee owned cars (unknown fuel)	Actual
Hotel night stays	Unknown
Rail (train, tram, light rail, underground)	Actual
Taxi	Actual
Office supply	
Copy Paper	Actual

Hosted servers

Electricity Unknown

Assessment Summary for SBAB

Gross Overall Emissions (location-based): 210 tCO₂e Gross Overall Emissions (market-based): 193 tCO₂e

Key Performance Indicators

Absolute GHG emissions will vary over time and often correspond to the expansion or contraction of an organisation. It is useful therefore to use reporting metrics that take these effects into account and monitor relative GHG emissions intensity. A common emissions intensity metric is tonnes of CO₂e per full time equivalent. This has been calculated, along with other relevant metrics, in the table below:

Data	KPI
574 Full Time Equivalent Employees	0.365 tCO ₂ e per Full Time Equivalent Employee (Location-Based)
3,642 Credit volume (MSEK)	0.0576 tCO ₂ e per Credit volume (MSEK) (Location-Based)
574 Full Time Equivalent Employees	0.337 tCO ₂ e per Full Time Equivalent Employee (Market-Based)
3,642 Credit volume (MSEK)	0.0531 tCO ₂ e per Credit volume (MSEK) (Market-Based)

Summary by Activity (Location-Based, tCO2e)



Summary by Activity (Market-Based, tCO₂e)



Summary by WBCSD/WRI Scope (Location-Based, tCO₂e)



Summary by WBCSD/WRI Scope (Market-Based, tCO₂e)



Summary by Greenhouse Gas

Greenhouse Gas	GWP	tGHG/year (Location-Based)	tCO ₂ e/year (Location-Based)	tGHG/year (Market-Based)	tCO ₂ e/year (Market-Based)
CO ₂	1	165	165	151	151
CH ₄	25	0.00532	0.133	0.00138	0.0346
N_2O	298	0.00274	0.815	0.00216	0.644
CO ₂ e	1	43.8	43.8	41.8	41.8
		Total	210		193

Summary of Scope 2 Market-Based Method for SBAB

Energy Consumed and Emissions By Factor Type In Scope 2 Market-Based Method

Scope 2 Market-Based Energy

Scope 2 Market-Based Emissions





Emission Factor Type	Energy		Market-Based Emissions		
,	MWh	%	tCO ₂ e	%	
Client-supplied market-based instrument	1,028	56.8	1.31	5.59	
Residual mix factors	0	0	0	0	
Default location-based factors	782	43.2	22	94.4	
Total	1,810	100	23.3	100	

Detailed Results

Detailed Summary by WBCSD/WRI Scope

Location-Based methodology

Source of Emission	ns	tCO ₂ /yr	tCH₄/yr	tN ₂ O/yr	Total Emissions (tCO ₂ e/yr)	%
Scope 1 Total		12.2	5.78e-4	2.15e-4	12.3	5.86%
Company o	wned vehicles Total	12.2	5.78e-4	2.15e-4	12.3	5.86%
Ca	ars	12.2	5.78e-4	2.15e-4	12.3	5.86%
Scope 2 Total		24.8	0.00372	5.43e-4	47.1	22.4%
Premises T	otal	24.8	0.00372	5.43e-4	47.1	22.4%
Di	strict cooling	0	0	0	0.148	0.0706%
Dis	strict heating	0	0	0	21.5	10.3%
	strict heating: District heating (EON - almö-Burlöv, Sweden), upstream emissions	0	0	0	0.383	0.182%
Ele	ectricity	24.8	0.00372	5.43e-4	25	11.9%
Scope 3 Total		128	0.00102	0.00198	150	71.7%
Business T	ravel Total	126	8.06e-4	0.00195	140	66.8%
Aiı	r travel	118	7.96e-4	0.00186	118	56.3%
	r travel: Flights, long-haul, average, upstream nissions	0	0	0	3.47	1.66%
	r travel: Flights, medium-haul, average, upstream nissions	0	0	0	4.51	2.15%
Aiı	r travel: Flights, short-haul, upstream emissions	0	0	0	4.33	2.06%
En	nployee owned cars (unknown fuel)	5.59	0	0	5.59	2.67%
Ra	ail (train, tram, light rail, underground)	0.0588	4.29e-6	1.48e-6	0.395	0.188%
	ail (train, tram, light rail, underground): Train, tional, upstream emissions	0	0	0	0.0114	0.00545%
Та	ıxi	2.85	5.36e-6	8.31e-5	2.88	1.37%
Та	ıxi: Regular taxi, upstream emissions	0	0	0	0.681	0.325%
Company o	wned vehicles Total	0	0	0	3.18	1.52%
Ca	ars: Average diesel car, upstream emissions	0	0	0	1.04	0.496%
Ca	ars: Average petrol car, upstream emissions	0	0	0	2.14	1.02%
Office supp	ly Total	0.441	0	0	0.441	0.21%
Co	ppy Paper	0.441	0	0	0.441	0.21%
Premises T	otal	1.45	2.17e-4	3.17e-5	6.74	3.21%
	strict heating: District Heating (Göteborg. Partille. e, Sweden), upstream emissions	0	0	0	0.048	0.0229%
	strict heating: District Heating, Karlstads Energi 3, upstream emissions	0	0	0	2.7	1.29%
	ectricity: Electricity - transmission & distribution sses (MCR)	1.45	2.17e-4	3.17e-5	1.46	0.696%
	ectricity: Electricity grid, T&D losses, upstream nissions	0	0	0	0.103	0.049%

Total	165	0.00532	0.00274	210	100%
Water supply	0	0	0	0.4	0.191%
Recycled waste	0	0	0	0	0%
Incinerated waste	0	0	0	0.0576	0.0274%
Electricity: Electricity grid, generated, upstream emissions	0	0	0	1.96	0.936%

Market-Based methodology

					Total	
Source of Emis	ssions	tCO ₂ /yr	tCH ₄ /yr	tN ₂ O/yr	Emissions (tCO ₂ e/yr)	%
Scope 1 Total		12.2	5.78e-4	2.15e-4	12.3	6.37%
Compa	ny owned vehicles Total	12.2	5.78e-4	2.15e-4	12.3	6.37%
	Cars	12.2	5.78e-4	2.15e-4	12.3	6.37%
Scope 2 Total		1.31	0	0	23.3	12.1%
Premise	es Total	1.31	0	0	23.3	12.1%
	District cooling	0	0	0	0.148	0.0766%
	District heating	0	0	0	21.5	11.1%
	District heating: District heating (EON - Malmö-Burlöv, Sweden), upstream emissions	0	0	0	0.383	0.198%
	Electricity	1.31	0	0	1.31	0.675%
Scope 3 Total		137	8.06e-4	0.00195	158	81.6%
Busines	ss Travel Total	126	8.06e-4	0.00195	140	72.5%
	Air travel	118	7.96e-4	0.00186	118	61.1%
	Air travel: Flights, long-haul, average, upstream emissions	0	0	0	3.47	1.8%
	Air travel: Flights, medium-haul, average, upstream emissions	0	0	0	4.51	2.33%
	Air travel: Flights, short-haul, upstream emissions	0	0	0	4.33	2.24%
	Employee owned cars (unknown fuel)	5.59	0	0	5.59	2.89%
	Rail (train, tram, light rail, underground)	0.0588	4.29e-6	1.48e-6	0.395	0.204%
	Rail (train, tram, light rail, underground): Train, national, upstream emissions	0	0	0	0.0114	0.00591%
	Taxi	2.85	5.36e-6	8.31e-5	2.88	1.49%
	Taxi: Regular taxi, upstream emissions	0	0	0	0.681	0.352%
Compa	ny owned vehicles Total	0	0	0	3.18	1.65%
	Cars: Average diesel car, upstream emissions	0	0	0	1.04	0.538%
	Cars: Average petrol car, upstream emissions	0	0	0	2.14	1.11%
Office s	supply Total	0.441	0	0	0.441	0.228%
	Copy Paper	0.441	0	0	0.441	0.228%
Premise	es Total	10.8	0	0	14	7.22%
	District heating: District Heating (Göteborg. Partille. Ale, Sweden), upstream emissions	0	0	0	0.048	0.0248%

Total	151	0.00138	0.00216	193	100%
Water supply	0	0	0	0.4	0.207%
Recycled waste	0	0	0	0	0%
Incinerated waste	0	0	0	0.0576	0.0298%
Electricity: MBI Upstream Emissions	10.8	0	0	10.8	5.56%
District heating: District Heating, Karlstads Energi AB, upstream emissions	0	0	0	2.7	1.4%

Summary by Company Unit

Location-Based methodology

Assessment	20	2017		18
Company Unit	Total Emissions (tCO ₂ e)	·		Emissions per FTE (tCO ₂ e/FTE)
SBAB	197	0.389	210	0.365
Göteborg	1.97	-	0.864	-
Karlstad	31.5	-	35.1	-
Malmö	3.63	-	4.22	-
Stockholm	11.5	-	13.6	-

Market-Based methodology

Assessment	20	2017		18
Company Unit	Total Emissions (tCO ₂ e)			Emissions per FTE (tCO ₂ e/FTE)
SBAB	184	0.363	193	0.337
Göteborg	1.8	-	0.65	-
Karlstad	24.7	-	27	-
Malmö	3.51	-	4.03	-
Stockholm	5.09	-	5.66	-

Annual Activity Data

Source of Em	nissions	Value	Unit
Business Tra	avel		
Air tra	avel		
	Long-haul, average class (RFI 2)	149,063	pass.km
	Medium-haul, average class (RFI 2)	253,276	pass.km
	Short-haul (RFI 2)	132,389	pass.km
Empl	oyee owned cars (unknown fuel)		
	Average swedish car	45,456	km
Rail ((train, tram, light rail, underground)		
	Swedish rail	1,341,872	pass.km
	Train, national	1,341	pass.km
Taxi			
	Average taxi	13,391	km
Company ov	vned vehicles		
Cars			
	Average diesel car	24,797	km
	Average petrol car	43,010	km
Office suppl	у		
Сору	Paper		
	Copy paper (Sweden)	2,143	kg
Premises			
Distri	ct cooling		
	District cooling (Solna/Sundbyberg, Norrenergi)	148,030	kWh
Distri	ct heating		
	District Heating Karlstads Energi AB	450,499	kWh
	District Heating, Göteborg Energi AB, Göteborg, Partille och Ale (exkl. Bra Miljöval)	8	MWh
	District heating EON Malmö-Burlöv	27,025	kWh
	District heating, Solna/Sundbyberg (Norrenergi)	148,030	kWh
Elect	ricity		
	Electricity consumption (Nordic Market)	1,028,187	kWh
Incine	erated waste		
	Combusted waste, energy recovery, WEEE, small	15	kg
	Combusted waste, energy recovery, average rigid plastic (incl. bottles)	920	kg
	Combusted waste, energy recovery, board	1,370	kg
	Combusted waste, energy recovery, glass	293	kg
	Combusted waste, energy recovery, mixed cans	12	kg
	Combusted waste, energy recovery, scrap metal	82	kg
	Waste, incinerated (heat recovery), MSW	17,423	kg
Recy	cled waste		

Waste, recycled	12,904	kg
Water supply		
Water supply	4,000	m3

References

IPCC (2006). Revised IPCC Guidelines for National Greenhouse Gas Inventories: Reference Manual. Intergovernmental Panel on Climate Change. Cambridge University Press, Cambridge.

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Client-supplied market-based instrument emission factor

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The Swedish Institute for Food and Biotechnology (SIK) (2004). Jämförelse av dricksvatten - översiktlig livscykelanalys (LCA).

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Assessment Summary for Göteborg

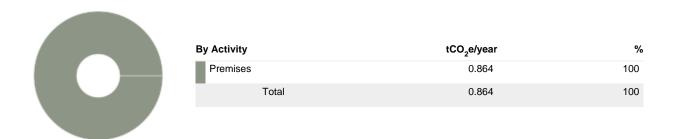
Gross Overall Emissions (location-based): $0.864~{\rm tCO_2e}$ Gross Overall Emissions (market-based): $0.65~{\rm tCO_2e}$

Key Performance Indicators

Absolute GHG emissions will vary over time and often correspond to the expansion or contraction of an organisation. It is useful therefore to use reporting metrics that take these effects into account and monitor relative GHG emissions intensity. A common emissions intensity metric is tonnes of CO₂e per full time equivalent. This has been calculated, along with other relevant metrics, in the table below:

Data	KPI
350 Office floor area (square metres)	$0.00247~{\rm tCO}_2{\rm e}$ per Office floor area (square metre) (Location-Based)
350 Office floor area (square metres)	$0.00186~\mathrm{tCO}_2\mathrm{e}$ per Office floor area (square metre) (Market-Based)

Summary by Activity (Location-Based, tCO2e)



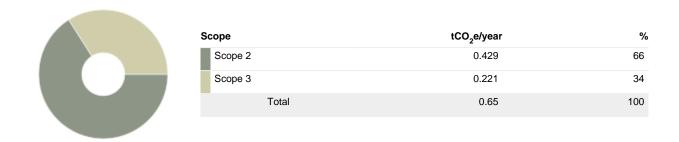
Summary by Activity (Market-Based, tCO₂e)



Summary by WBCSD/WRI Scope (Location-Based, tCO2e)



Summary by WBCSD/WRI Scope (Market-Based, tCO₂e)



Summary by Greenhouse Gas

Greenhouse Gas	GWP	tGHG/year (Location-Based)	tCO ₂ e/year (Location-Based)	tGHG/year (Market-Based)	tCO ₂ e/year (Market-Based)
CO ₂	1	0.337	0.337	0.153	0.153
CH ₄	25	5.06e-5	0.00127		
N ₂ O	298	7.39e-6	0.0022		
CO ₂ e	1	0.523	0.523	0.497	0.497
		Total	0.864		0.65

Summary of Scope 2 Market-Based Method for Göteborg

Energy Consumed and Emissions By Factor Type In Scope 2 Market-Based Method

Scope 2 Market-Based Energy

Scope 2 Market-Based Emissions





Emission Factor Type	Energy		Market-Based Emissions	
,,,	MWh	%	tCO ₂ e	%
Client-supplied market-based instrument	13.2	62.3	0.00496	1.16
Residual mix factors	0	0	0	0
Default location-based factors	8	37.7	0.424	98.8
Total	21.2	100	0.429	100

Assessment Summary for Karlstad

Gross Overall Emissions (location-based): 35.1 tCO_2e Gross Overall Emissions (market-based): 27 tCO_2e

Key Performance Indicators

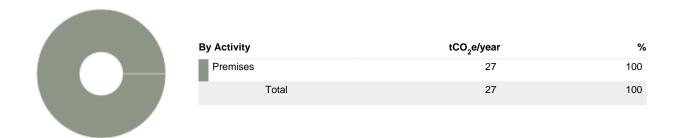
Absolute GHG emissions will vary over time and often correspond to the expansion or contraction of an organisation. It is useful therefore to use reporting metrics that take these effects into account and monitor relative GHG emissions intensity. A common emissions intensity metric is tonnes of CO₂e per full time equivalent. This has been calculated, along with other relevant metrics, in the table below:

Data	KPI
5,948 Office floor area (square metres)	$0.0059~\mathrm{tCO_2}$ e per Office floor area (square metre) (Location-Based)
5,948 Office floor area (square metres)	$0.00453~\mathrm{tCO_2}$ e per Office floor area (square metre) (Market-Based)

Summary by Activity (Location-Based, tCO2e)



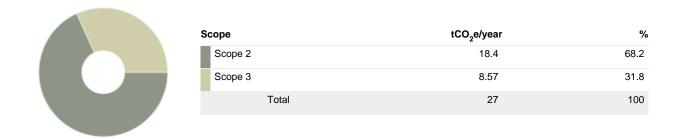
Summary by Activity (Market-Based, tCO₂e)



Summary by WBCSD/WRI Scope (Location-Based, tCO2e)



Summary by WBCSD/WRI Scope (Market-Based, tCO₂e)



Summary by Greenhouse Gas

Greenhouse Gas	GWP	tGHG/year (Location-Based)	tCO ₂ e/year (Location-Based)	tGHG/year (Market-Based)	tCO ₂ e/year (Market-Based)
CO ₂	1	13.9	13.9	6.95	6.95
CH ₄	25	0.00208	0.052		
N ₂ O	298	3.04e-4	0.0905		
CO ₂ e	1	21.1	21.1	20	20
		Total	35.1		27

Summary of Scope 2 Market-Based Method for Karlstad

Energy Consumed and Emissions By Factor Type In Scope 2 Market-Based Method

Scope 2 Market-Based Energy

Scope 2 Market-Based Emissions





Emission Factor Type	Ene	rgy	Market-Based Emissions		
,	MWh	%	tCO ₂ e	%	
Client-supplied market-based instrument	544	54.7	1.28	6.94	
Residual mix factors	0	0	0	0	
Default location-based factors	450	45.3	17.1	93.1	
Total	994	100	18.4	100	

Assessment Summary for Malmö

Gross Overall Emissions (location-based): $4.22 \text{ tCO}_2\text{e}$ Gross Overall Emissions (market-based): $4.03 \text{ tCO}_2\text{e}$

Key Performance Indicators

Absolute GHG emissions will vary over time and often correspond to the expansion or contraction of an organisation. It is useful therefore to use reporting metrics that take these effects into account and monitor relative GHG emissions intensity. A common emissions intensity metric is tonnes of CO₂e per full time equivalent. This has been calculated, along with other relevant metrics, in the table below:

Data	KPI
248 Office floor area (square metres)	0.017 tCO ₂ e per Office floor area (square metre) (Location-Based)
248 Office floor area (square metres)	0.0163 tCO ₂ e per Office floor area (square metre) (Market-Based)

Summary by Activity (Location-Based, tCO2e)



Summary by Activity (Market-Based, tCO₂e)



Summary by WBCSD/WRI Scope (Location-Based, tCO2e)



Summary by WBCSD/WRI Scope (Market-Based, tCO₂e)



Summary by Greenhouse Gas

Greenhouse Gas	GWP	tGHG/year (Location-Based)	tCO ₂ e/year (Location-Based)	tGHG/year (Market-Based)	tCO ₂ e/year (Market-Based)
CO ₂	1	0.281	0.281	0.116	0.116
CH ₄	25	4.22e-5	0.00106		
N ₂ O	298	6.16e-6	0.00184		
CO ₂ e	1	3.94	3.94	3.92	3.92
		Total	4.22		4.03

Summary of Scope 2 Market-Based Method for Malmö

Energy Consumed and Emissions By Factor Type In Scope 2 Market-Based Method

Scope 2 Market-Based Energy

Scope 2 Market-Based Emissions





Emission Factor Type	Energy		Market-Based Emissions	
,	MWh	%	tCO ₂ e	%
Client-supplied market-based instrument	11	29	5.51e-4	0.0141
Residual mix factors	0	0	0	0
Default location-based factors	27	71	3.91	100
Total	38.1	100	3.91	100

Assessment Summary for Stockholm

Gross Overall Emissions (location-based): 13.6 tCO₂e Gross Overall Emissions (market-based): 5.66 tCO₂e

Key Performance Indicators

Absolute GHG emissions will vary over time and often correspond to the expansion or contraction of an organisation. It is useful therefore to use reporting metrics that take these effects into account and monitor relative GHG emissions intensity. A common emissions intensity metric is tonnes of CO₂e per full time equivalent. This has been calculated, along with other relevant metrics, in the table below:

Data	KPI
5,309 Office floor area (square metres)	$0.00256~\mathrm{tCO}_2\mathrm{e}$ per Office floor area (square metre) (Location-Based)
5,309 Office floor area (square metres)	$0.00107~\mathrm{tCO_2}$ e per Office floor area (square metre) (Market-Based)

Summary by Activity (Location-Based, tCO2e)



Summary by Activity (Market-Based, tCO₂e)



Summary by WBCSD/WRI Scope (Location-Based, tCO2e)



Summary by WBCSD/WRI Scope (Market-Based, tCO₂e)



Summary by Greenhouse Gas

Greenhouse Gas	GWP	tGHG/year (Location-Based)	tCO ₂ e/year (Location-Based)	tGHG/year (Market-Based)	tCO ₂ e/year (Market-Based)
CO ₂	1	11.7	11.7	4.83	4.83
CH ₄	25	0.00176	0.0441		
N ₂ O	298	2.57e-4	0.0767		
CO ₂ e	1	1.75	1.75	0.828	0.828
		Total	13.6		5.66

Summary of Scope 2 Market-Based Method for Stockholm

Energy Consumed and Emissions By Factor Type In Scope 2 Market-Based Method

Scope 2 Market-Based Energy

Scope 2 Market-Based Emissions





Emission Factor Type	Ene	rgy	Market-Based Emissions		
	MWh	%	tCO ₂ e	%	
Client-supplied market-based instrument	460	60.9	0.023	3.74	
Residual mix factors	0	0	0	0	
Default location-based factors	296	39.1	0.592	96.3	
Total	756	100	0.615	100	