



Greenhouse Gas Protocol (Dual Reporting) Report for Bluestep Bank

Assessment Period: 2021

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Assessment Details

Consolidation Approach

Operational control

Organisational Boundaries

Operations of Bluestep Bank

Included

- Bluestep Bank
- Sverige
- Helsingborg
- Stockholm
- Norway
- Oslo
- Finland
- Helsingfors

Operational Boundary

- Air travel
- Bus and coach
- Cars
- District cooling
- District heating
- Electricity consumption
- Employee owned cars
- Ferry
- Home working
- Hotel night stays
- IT Equipment
- Incinerated waste treatment
- Motorcycle
- Paper and printed material
- Rail (train, tram, light rail, underground)
- Recycled waste treatment
- Road freight, shared vehicle (tonne.km factors)
- Taxi
- Walk & Bike
- 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 CO₂e¹. The seven Kyoto gases are carbon dioxide (CO₂), methane (CH₄), nitrous oxide (N₂O), hydrofluorocarbons (HFCs), nitrogen trifluoride (NF₃), sulphur hexafluoride (SF₆) and perfluorocarbons (PFCs). The global warming potential (GWP) of each gas is illustrated in the Table 1.

Table 1. GWP of Kyoto Gases (IPCC 2013, without climate-carbon feedback)

Greenhouse Gas	GWP
Carbon dioxide (CO ₂)	1
Methane (CH ₄)	28
Nitrous oxide (N ₂ O)	265
Hydrofluorocarbons (HFCs)	1 - 12,400
Perfluorocarbons (PFCs)	1 - 11,100
Nitrogen trifluoride (NF ₃)	16,100
Sulphur hexafluoride (SF ₆)	23,500

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



Location-based Accuracy Overview		
	tCO ₂ e/year	%
Actual	274	92.9
Estimated	21.1	7.14
Total	295	100



Market-based Accuracy Overview		
	tCO ₂ e/year	%
Actual	278	93
Estimated	20.9	6.99
Total	299	100

Table 2. Data Quality and Availability

Source of emissions	Data quality
Premises	
District cooling	Estimated
District heating	Estimated
Electricity consumption	Mixed
Home working	Actual
Incinerated waste treatment	Estimated
Recycled waste treatment	Estimated
Road freight, shared vehicle (tonne.km factors)	Mixed
Water supply	Mixed
Business Travel	
Air travel	Actual
Employee owned cars	Actual
Hired cars	N/A
Hotel night stays	Actual
Rail (train, tram, light rail, underground)	Mixed
Taxi	Actual
Company-Owned/Leased Vehicles	

Cars	Actual
Office supply	
IT Equipment	Actual
Paper and printed material	Mixed
Commuting	
Bus and coach	Actual
Employee owned cars	Actual
Ferry	Actual
Motorcycle	Actual
Rail (train, tram, light rail, underground)	Actual
Walk & Bike	Actual

Assessment Summary for Bluestep Bank

Gross Overall Emissions (location-based): 295 tCO₂e

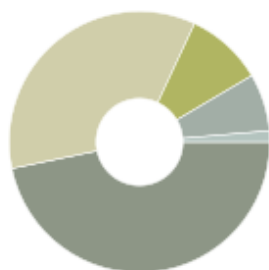
Gross Overall Emissions (market-based): 299 tCO₂e

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:

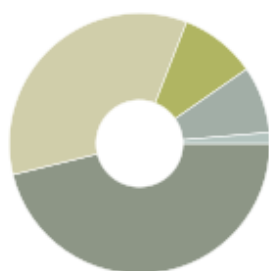
Data	KPI
3,475 Floor area (square metres)	0.085 tCO ₂ e per square metre (Location-Based)
18,579 Credit volume (MSEK)	0.0159 tCO ₂ e per Credit volume (MSEK) (Location-Based)
273 Full Time Equivalent Employees	1.08 tCO ₂ e per Full Time Equivalent Employee (Location-Based)
7,169,000 Total Sales (KSEK)	4.12e-5 tCO ₂ e per Total Sales (KSEK) (Location-Based)
3,475 Floor area (square metres)	0.0861 tCO ₂ e per square metre (Market-Based)
18,579 Credit volume (MSEK)	0.0161 tCO ₂ e per Credit volume (MSEK) (Market-Based)
273 Full Time Equivalent Employees	1.1 tCO ₂ e per Full Time Equivalent Employee (Market-Based)
7,169,000 Total Sales (KSEK)	4.17e-5 tCO ₂ e per Total Sales (KSEK) (Market-Based)

Summary by Activity (Location-Based, tCO₂e)



By Activity	tCO ₂ e/year	%
Commuting	138	46.8
Office supply	104	35.2
Business Travel	28.3	9.58
Premises	21	7.11
Company-Owned/Leased Vehicles	4.04	1.37
Total	295	100

Summary by Activity (Market-Based, tCO₂e)



By Activity	tCO ₂ e/year	%
Commuting	138	46.2
Office supply	104	34.7
Business Travel	28.3	9.45
Premises	24.8	8.3
Company-Owned/Leased Vehicles	4.04	1.35
Total	299	100

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



By Activity	tCO ₂ e/year	%
Scope 1	3.25	1.1
Scope 2	17.8	6.02
Scope 3	274	92.9
Total	295	100

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



By Activity	tCO ₂ e/year	%
Scope 1	3.25	1.09
Scope 2	20.3	6.8
Scope 3	276	92.1
Total	299	100

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	148	148	150	150
CH ₄	28	0.00377	0.105	0.00335	0.0938
N ₂ O	265	0.00176	0.466	0.00168	0.445
Biogenic CO ₂	0	5.78e-4	0	5.78e-4	0
CO ₂ e	1	147	147	149	149
Total			295		299

Summary of Scope 2 Market-Based Method for Bluestep Bank

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	211	45.2	0.0496	0.244
Residual mix factors	16.7	3.57	6.1	30
Default location-based factors	239	51.2	14.2	69.8
Total	467	100	20.3	100

Detailed Results

Detailed Summary by WBCSD/WRI Scope

Location-Based methodology

Source of Emissions	tCO ₂ /yr	tCH ₄ /yr	tN ₂ O/yr	Total Emissions (tCO ₂ e/yr)	%
Scope 1 Total	3.22	2.6e-6	9.9e-5	3.25	1.1%
Company-Owned/Leased Vehicles Total	3.22	2.6e-6	9.9e-5	3.25	1.1%
Cars	3.22	2.6e-6	9.9e-5	3.25	1.1%
Scope 2 Total	7.23	3.95e-4	7.34e-5	17.8	6.02%
Premises Total	7.23	3.95e-4	7.34e-5	17.8	6.02%
District cooling	0	0	0	0.381	0.129%
District heating	3.68	0	0	13.8	4.67%
Electricity consumption	3.56	3.95e-4	7.34e-5	3.59	1.21%
Scope 3 Total	137	0.00337	0.00159	274	92.9%
Business Travel Total	21.1	9.5e-4	5.04e-4	28.3	9.58%
Air travel	14.5	4.3e-4	4.61e-4	14.6	4.95%
Air travel: Flights, medium-haul, average, upstream emissions	0	0	0	0.319	0.108%
Air travel: Flights, short-haul, upstream emissions	0	0	0	5.74	1.94%
Employee owned cars	0.434	1.73e-5	9.41e-6	0.437	0.148%
Employee owned cars: Average unknown fuel car, upstream emissions	0	0	0	0.115	0.0389%
Hotel night stays	5.61	4.89e-4	1.63e-5	5.63	1.9%
Rail (train, tram, light rail, underground)	0.0549	8.01e-6	1.21e-6	0.0556	0.0188%
Rail (train, tram, light rail, underground): Eurostar, upstream emissions	0	0	0	1.55e-4	5.26e-5%
Rail (train, tram, light rail, underground): Underground, upstream emissions	0	0	0	0.00904	0.00306%
Taxi	0.52	5.03e-6	1.6e-5	1.13	0.383%
Taxi: Regular taxi, upstream emissions	0	0	0	0.108	0.0365%
Taxi: Taxi (Stockholm), upstream emissions	0	0	0	0.127	0.043%
Commuting Total	115	0.00236	0.00106	138	46.8%
Bus and coach	10.3	5.4e-5	2.4e-4	21	7.12%
Bus and coach: City bus, upstream emissions	0	0	0	2.54	0.861%
Employee owned cars	98.4	0.00126	6.84e-4	98.6	33.4%
Employee owned cars: Average unknown fuel car, upstream emissions	0	0	0	8.36	2.83%
Ferry	0.0841	9.97e-7	3.84e-6	0.0852	0.0288%
Ferry: Ferry, average passenger, upstream emissions	0	0	0	0.0192	0.00648%
Motorcycle	0.399	2.18e-4	6.95e-6	0.407	0.138%

Motorcycle: Average petrol motorcycle, upstream emissions	0	0	0	0.112	0.038%
Rail (train, tram, light rail, underground)	5.44	7.91e-4	1.19e-4	5.49	1.86%
Rail (train, tram, light rail, underground): Underground, upstream emissions	0.5	3.4e-5	4.42e-6	1.41	0.479%
Walk & Bike	0	0	0	0	0%
Company-Owned/Leased Vehicles Total	0	0	0	0.794	0.269%
Cars: Large diesel car, upstream emissions	0	0	0	0.794	0.269%
Office supply Total	0	0	0	104	35.2%
IT Equipment	0	0	0	98.9	33.5%
Paper and printed material	0	0	0	5.03	1.7%
Premises Total	0.825	6.21e-5	2.26e-5	3.22	1.09%
District cooling: District cooling (Stockholm Exergj), upstream emissions	0.0426	0	0	0.0426	0.0144%
District heating: District Heating, Stockholm Exergj AB, Stockholm, upstream emissions	0	0	0	0.329	0.111%
District heating: District Heating, Öresundskraft AB, Helsingborg, upstream emissions	0	0	0	0.138	0.0467%
District heating: Heat/steam, good quality CHP: UK average - T&D losses, upstream emissions	0	0	0	0.0359	0.0121%
District heating: Heat/steam, good quality CHP: UK average, upstream emissions	0	0	0	0.682	0.231%
Electricity consumption: Electricity - transmission & distribution losses (MCR)	0.21	2.68e-5	4.62e-6	0.211	0.0716%
Electricity consumption: Electricity grid, T&D losses, upstream emissions	0	0	0	0.0577	0.0196%
Electricity consumption: Electricity grid, generated, upstream emissions	0	0	0	0.902	0.305%
Home working	0.279	3.07e-5	5.81e-6	0.281	0.0951%
Home working: Electricity - transmission & distribution losses (MCR)	0.0162	2.09e-6	3.63e-7	0.0163	0.00553%
Home working: Electricity grid, T&D losses, upstream emissions	0	0	0	0.00428	0.00145%
Home working: Electricity grid, generated, upstream emissions	0	0	0	0.0687	0.0233%
Incinerated waste treatment	0	0	0	0	0%
Recycled waste treatment	0	0	0	0	0%
Road freight, shared vehicle (tonne.km factors)	0.278	2.48e-6	1.18e-5	0.281	0.0952%
Road freight, shared vehicle (tonne.km factors): Road freight, articulated HGV (3.5-33t) average load, upstream emissions	0	0	0	2.74e-4	9.28e-5%
Road freight, shared vehicle (tonne.km factors): Road freight, rigid HGV (>17t) average load, upstream emissions	0	0	0	0.068	0.023%
Water supply	0	0	0	0.1	0.034%
Total	148	0.00377	0.00176	295	100%

Market-Based methodology

Source of Emissions	tCO ₂ /yr	tCH ₄ /yr	tN ₂ O/yr	Total Emissions (tCO ₂ e/yr)	%
Scope 1 Total	3.22	2.6e-6	9.9e-5	3.25	1.09%
Company-Owned/Leased Vehicles Total	3.22	2.6e-6	9.9e-5	3.25	1.09%
Cars	3.22	2.6e-6	9.9e-5	3.25	1.09%
Scope 2 Total	9.78	0	0	20.3	6.8%
Premises Total	9.78	0	0	20.3	6.8%
District cooling	0	0	0	0.381	0.127%
District heating	3.68	0	0	13.8	4.61%
Electricity consumption	6.1	0	0	6.15	2.06%
Scope 3 Total	137	0.00335	0.00158	276	92.1%
Business Travel Total	21.1	9.5e-4	5.04e-4	28.3	9.45%
Air travel	14.5	4.3e-4	4.61e-4	14.6	4.89%
Air travel: Flights, medium-haul, average, upstream emissions	0	0	0	0.319	0.107%
Air travel: Flights, short-haul, upstream emissions	0	0	0	5.74	1.92%
Employee owned cars	0.434	1.73e-5	9.41e-6	0.437	0.146%
Employee owned cars: Average unknown fuel car, upstream emissions	0	0	0	0.115	0.0384%
Hotel night stays	5.61	4.89e-4	1.63e-5	5.63	1.88%
Rail (train, tram, light rail, underground)	0.0549	8.01e-6	1.21e-6	0.0556	0.0186%
Rail (train, tram, light rail, underground): Eurostar, upstream emissions	0	0	0	1.55e-4	5.19e-5%
Rail (train, tram, light rail, underground): Underground, upstream emissions	0	0	0	0.00904	0.00302%
Taxi	0.52	5.03e-6	1.6e-5	1.13	0.378%
Taxi: Regular taxi, upstream emissions	0	0	0	0.108	0.0361%
Taxi: Taxi (Stockholm), upstream emissions	0	0	0	0.127	0.0425%
Commuting Total	115	0.00236	0.00106	138	46.2%
Bus and coach	10.3	5.4e-5	2.4e-4	21	7.03%
Bus and coach: City bus, upstream emissions	0	0	0	2.54	0.85%
Employee owned cars	98.4	0.00126	6.84e-4	98.6	33%
Employee owned cars: Average unknown fuel car, upstream emissions	0	0	0	8.36	2.79%
Ferry	0.0841	9.97e-7	3.84e-6	0.0852	0.0285%
Ferry: Ferry, average passenger, upstream emissions	0	0	0	0.0192	0.0064%
Motorcycle	0.399	2.18e-4	6.95e-6	0.407	0.136%
Motorcycle: Average petrol motorcycle, upstream emissions	0	0	0	0.112	0.0375%
Rail (train, tram, light rail, underground)	5.44	7.91e-4	1.19e-4	5.49	1.84%
Rail (train, tram, light rail, underground): Underground, upstream emissions	0.5	3.4e-5	4.42e-6	1.41	0.473%

Walk & Bike	0	0	0	0	0%
Company-Owned/Leased Vehicles Total	0	0	0	0.794	0.265%
Cars: Large diesel car, upstream emissions	0	0	0	0.794	0.265%
Office supply Total	0	0	0	104	34.7%
IT Equipment	0	0	0	98.9	33.1%
Paper and printed material	0	0	0	5.03	1.68%
Premises Total	0.632	3.79e-5	1.84e-5	4.5	1.5%
District cooling: District cooling (Stockholm Exergi), upstream emissions	0.0426	0	0	0.0426	0.0142%
District heating: District Heating, Stockholm Exergi AB, Stockholm, upstream emissions	0	0	0	0.329	0.11%
District heating: District Heating, Öresundskraft AB, Helsingborg, upstream emissions	0	0	0	0.138	0.0461%
District heating: Heat/steam, good quality CHP: UK average - T&D losses, upstream emissions	0	0	0	0.0359	0.012%
District heating: Heat/steam, good quality CHP: UK average, upstream emissions	0	0	0	0.682	0.228%
Electricity consumption: Electricity - transmission & distribution losses (MCR)	0.0162	2.63e-6	4.21e-7	0.0163	0.00546%
Electricity consumption: Electricity grid, T&D losses, upstream emissions	0	0	0	0.0034	0.00114%
Electricity consumption: Electricity grid, generated, upstream emissions	0	0	0	0.0411	0.0137%
Electricity consumption: MBI Upstream Emissions	0	0	0	2.39	0.799%
Home working	0.279	3.07e-5	5.81e-6	0.281	0.0939%
Home working: Electricity - transmission & distribution losses (MCR)	0.0162	2.09e-6	3.63e-7	0.0163	0.00546%
Home working: Electricity grid, T&D losses, upstream emissions	0	0	0	0.00428	0.00143%
Home working: Electricity grid, generated, upstream emissions	0	0	0	0.0687	0.023%
Incinerated waste treatment	0	0	0	0	0%
Recycled waste treatment	0	0	0	0	0%
Road freight, shared vehicle (tonne.km factors)	0.278	2.48e-6	1.18e-5	0.281	0.094%
Road freight, shared vehicle (tonne.km factors): Road freight, articulated HGV (3.5-33t) average load, upstream emissions	0	0	0	2.74e-4	9.17e-5%
Road freight, shared vehicle (tonne.km factors): Road freight, rigid HGV (>17t) average load, upstream emissions	0	0	0	0.068	0.0227%
Water supply	0	0	0	0.1	0.0335%
Total	150	0.00335	0.00168	299	100%

Summary by Company Unit

Location-Based methodology

Assessment	2020		2021	
Company Unit	Total Emissions (tCO ₂ e)	Emissions per FTE (tCO ₂ e/FTE)	Total Emissions (tCO ₂ e)	Emissions per FTE (tCO ₂ e/FTE)
Bluestep Bank	264	0.865	295	1.08
Sverige	144	0.67	177	0.952
Helsingborg	17.3	-	20.9	-
Stockholm	127	-	156	-
Norway	80.3	1.06	96.7	1.4
Oslo	80.3	-	96.7	-
Finland	39.5	2.82	21.6	1.2
Helsingfors	39.5	-	21.6	-

Market-Based methodology

Assessment	2020		2021	
Company Unit	Total Emissions (tCO ₂ e)	Emissions per FTE (tCO ₂ e/FTE)	Total Emissions (tCO ₂ e)	Emissions per FTE (tCO ₂ e/FTE)
Bluestep Bank	301	0.986	299	1.1
Sverige	147	0.685	182	0.98
Helsingborg	22.8	-	26.8	-
Stockholm	125	-	156	-
Norway	116	1.52	96.7	1.4
Oslo	116	-	96.7	-
Finland	37.7	2.69	20.2	1.12
Helsingfors	37.7	-	20.2	-

Annual Activity Data

Source of Emissions	Value	Unit
Business Travel		
Air travel		
Medium-haul, average class	9,485	pass.km
Short-haul	106,630	pass.km
Employee owned cars		
Average car (unknown fuel)	2,549	km
Hotel night stays		
Hotel night stays	369	night
Rail (train, tram, light rail, underground)		
Eurostar	210	pass.km
Swedish rail	773	pass.km
Underground/Subway	1,960	pass.km
Taxi		
Average taxi	2,126	km
Hybrid taxi	688	km
Taxi (Stockholm)	5,527	km
Taxi (Sweden)	277	km
Commuting		
Bus and coach		
Buss SL	226,031	pass.km
City bus	134,908	pass.km
Employee owned cars		
Average car (unknown fuel)	185,396	km
Average swedish car (whole fleet)	442,890	km
Ferry		
Average ferry passenger	756	pass.km
Motorcycle		
Average petrol motorcycle	3,582	km
Rail (train, tram, light rail, underground)		
Underground/Subway	669,800	pass.km
Walk & Bike		
Bicycle	41,717	km
On foot	21,589	km
Company-Owned/Leased Vehicles		
Cars		
Large diesel car	15,699	km
Office supply		
IT Equipment		
Computer (excluding use-phase)	163	Units

Phone (including use phase)	41	Units
Screen (excluding use-phase)	111	Units
Paper and printed material		
Office paper (from Europe)	89.9	kg
Office paper (from Sweden)	3,662	kg
Printed material (from Europe)	10	kg
Printed material (from Sweden)	22,490	kg
Premises		
District cooling		
District cooling (Stockholm Exergi), Stockholm	25,046	kWh
District cooling, Öresundskraft	5,370	kWh
Helsinki district cooling	8,770	kWh
District heating		
District Heating, Stockholm Exergi AB, Stockholm	109,630	kWh
District Heating, Öresundskraft AB, Helsingborg	68,973	kWh
District heating (country default)	21,620	kWh
Electricity consumption		
Electricity consumption	211,238	kWh
Electricity consumption (Nordic Market)	16,701	kWh
Home working		
Home working day - laptop	34,197	Day
Incinerated waste treatment		
Combusted waste, energy recovery	2,532	kg
Recycled waste treatment		
Material recycling (open-loop)	1,585	kg
Road freight, shared vehicle (tonne.km factors)		
Articulated HGV (3.5-33t) average load deliveries	9	tonne.km
Rigid HGV (>17t) average load deliveries	1,546	tonne.km
Water supply		
Water supply	889	m3

Key Observations

In addition to the GHG assessment in Our Impacts, Bluestep Bank has carried out a credit portfolio calculation in accordance with "The GHG Global Accounting & Reporting Standard for the Financial Industry". U&We has quality assessed the calculation and reviewed that the method follows the standard. The results can be viewed in Appendix 1.

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Assessment Summary for Sverige

Gross Overall Emissions (location-based): 177 tCO₂e

Gross Overall Emissions (market-based): 182 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
2,777 Floor area (square metres)	0.0637 tCO ₂ e per square metre (Location-Based)
186 Full Time Equivalent Employees	0.952 tCO ₂ e per Full Time Equivalent Employee (Location-Based)
3,707,000 Total Sales (KSEK)	4.78e-5 tCO ₂ e per Total Sales (KSEK) (Location-Based)
10,622 Credit volume (MSEK)	0.0167 tCO ₂ e per Credit volume (MSEK) (Location-Based)
2,777 Floor area (square metres)	0.0656 tCO ₂ e per square metre (Market-Based)
186 Full Time Equivalent Employees	0.98 tCO ₂ e per Full Time Equivalent Employee (Market-Based)
3,707,000 Total Sales (KSEK)	4.92e-5 tCO ₂ e per Total Sales (KSEK) (Market-Based)
10,622 Credit volume (MSEK)	0.0172 tCO ₂ e per Credit volume (MSEK) (Market-Based)

Summary by Activity (Location-Based, tCO₂e)



By Activity	tCO ₂ e/year	%
Commuting	81.2	45.8
Office supply	58.8	33.2
Business Travel	18.9	10.7
Premises	14	7.93
Company-Owned/Leased Vehicles	4.04	2.28
Total	177	100

Summary by Activity (Market-Based, tCO₂e)



By Activity	tCO ₂ e/year	%
Commuting	81.2	44.5
Office supply	58.8	32.3
Premises	19.3	10.6
Business Travel	18.9	10.4
Company-Owned/Leased Vehicles	4.04	2.22
Total	182	100

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



By Activity	tCO ₂ e/year	%
Scope 1	3.25	1.84
Scope 2	12.4	7.01
Scope 3	161	91.1
Total	177	100

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



By Activity	tCO ₂ e/year	%
Scope 1	3.25	1.78
Scope 2	16.7	9.14
Scope 3	162	89.1
Total	182	100

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	89.7	89.7	93.8	93.8
CH ₄	28	0.0012	0.0336	8.75e-4	0.0245
N ₂ O	265	5.58e-4	0.148	5.05e-4	0.134
CO ₂ e	1	87.2	87.2	88.3	88.3
Total		87.2	177	88.3	182

Summary of Scope 2 Market-Based Method for Sverige

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	124	35.4	0.043	0.258
Residual mix factors	16.7	4.78	6.1	36.6
Default location-based factors	209	59.8	10.5	63.1
Total	349	100	16.7	100

Assessment Summary for Helsingborg

Gross Overall Emissions (location-based): 20.9 tCO₂e

Gross Overall Emissions (market-based): 26.8 tCO₂e

Summary by Activity (Location-Based, tCO₂e)



By Activity	tCO ₂ e/year	%
Commuting	10.3	49.3
Premises	5.6	26.8
Business Travel	4.67	22.4
Office supply	0.312	1.5
Total	20.9	100

Summary by Activity (Market-Based, tCO₂e)



By Activity	tCO ₂ e/year	%
Premises	11.5	42.9
Commuting	10.3	38.5
Business Travel	4.67	17.5
Office supply	0.312	1.17
Total	26.8	100

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



By Activity	tCO ₂ e/year	%
Scope 2	5.37	25.7
Scope 3	15.5	74.3
Total	20.9	100

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



By Activity	tCO ₂ e/year	%
Scope 2	11.2	42
Scope 3	15.5	58
Total	26.8	100

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	13.5	13.5	19.4	19.4
CH ₄	28	2.22e-4	0.0062	1.85e-4	0.00518
N ₂ O	265	1.5e-4	0.0396	1.44e-4	0.0381
CO ₂ e	1	7.31	7.31	7.31	7.31
		Total	20.9		26.8

Summary of Scope 2 Market-Based Method for Helsingborg

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

Scope 2 Market-Based Energy



Scope 2 Market-Based Emissions



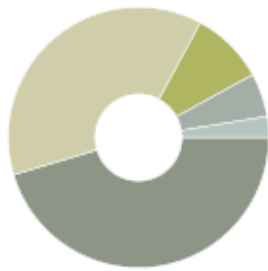
Emission Factor Type	Energy		Market-Based Emissions	
	MWh	%	tCO ₂ e	%
Client-supplied market-based instrument	0	0	0	0
Residual mix factors	16.7	18.3	6.1	54.3
Default location-based factors	74.3	81.7	5.14	45.7
Total	91	100	11.2	100

Assessment Summary for Stockholm

Gross Overall Emissions (location-based): 156 tCO₂e

Gross Overall Emissions (market-based): 156 tCO₂e

Summary by Activity (Location-Based, tCO₂e)



By Activity	tCO ₂ e/year	%
Commuting	70.9	45.4
Office supply	58.5	37.5
Business Travel	14.3	9.13
Premises	8.44	5.4
Company-Owned/Leased Vehicles	4.04	2.59
Total	156	100

Summary by Activity (Market-Based, tCO₂e)



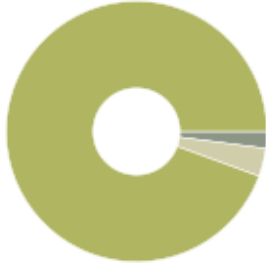
By Activity	tCO ₂ e/year	%
Commuting	70.9	45.6
Office supply	58.5	37.6
Business Travel	14.3	9.17
Premises	7.79	5.01
Company-Owned/Leased Vehicles	4.04	2.6
Total	156	100

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



By Activity	tCO ₂ e/year	%
Scope 1	3.25	2.08
Scope 2	7.05	4.52
Scope 3	146	93.4
Total	156	100

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



By Activity	tCO ₂ e/year	%
Scope 1	3.25	2.09
Scope 2	5.41	3.48
Scope 3	147	94.4
Total	156	100

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	76.1	76.1	74.4	74.4
CH ₄	28	9.8e-4	0.0274	6.9e-4	0.0193
N ₂ O	265	4.08e-4	0.108	3.62e-4	0.0958
CO ₂ e	1	79.9	79.9	81	81
		Total	156		156

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	Energy		Market-Based Emissions	
	MWh	%	tCO ₂ e	%
Client-supplied market-based instrument	124	47.9	0.043	0.794
Residual mix factors	0	0	0	0
Default location-based factors	135	52.1	5.37	99.2
Total	258	100	5.41	100

Assessment Summary for Norway

Gross Overall Emissions (location-based): 96.7 tCO₂e

Gross Overall Emissions (market-based): 96.7 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
503 Floor area (square metres)	0.192 tCO ₂ e per square metre (Location-Based)
7,734 Credit volume (MSEK)	0.0125 tCO ₂ e per Credit volume (MSEK) (Location-Based)
3,274,000 Total Sales (KSEK)	2.95e-5 tCO ₂ e per Total Sales (KSEK) (Location-Based)
69 Full Time Equivalent Employees	1.4 tCO ₂ e per Full Time Equivalent Employee (Location-Based)
503 Floor area (square metres)	0.192 tCO ₂ e per square metre (Market-Based)
7,734 Credit volume (MSEK)	0.0125 tCO ₂ e per Credit volume (MSEK) (Market-Based)
3,274,000 Total Sales (KSEK)	2.95e-5 tCO ₂ e per Total Sales (KSEK) (Market-Based)
69 Full Time Equivalent Employees	1.4 tCO ₂ e per Full Time Equivalent Employee (Market-Based)

Summary by Activity (Location-Based, tCO₂e)



By Activity	tCO ₂ e/year	%
Commuting	48.1	49.7
Office supply	40.8	42.1
Business Travel	6.97	7.21
Premises	0.888	0.919
Total	96.7	100

Summary by Activity (Market-Based, tCO₂e)



By Activity	tCO ₂ e/year	%
Commuting	48.1	49.7
Office supply	40.8	42.1
Business Travel	6.97	7.2
Premises	0.902	0.933
Total	96.7	100

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



By Activity	tCO ₂ e/year	%
Scope 2	0.541	0.56
Scope 3	96.2	99.4
Total	96.7	100

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



By Activity	tCO ₂ e/year	%
Scope 2	0.00396	0.00409
Scope 3	96.7	100
Total	96.7	100

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	44.2	44.2	43.6	43.6
CH ₄	28	0.00214	0.0598	0.00208	0.0582
N ₂ O	265	9.77e-4	0.259	9.69e-4	0.257
CO ₂ e	1	52.2	52.2	52.8	52.8
		Total	96.7		96.7

Summary of Scope 2 Market-Based Method for Norway

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	78.4	100	0.00396	100
Residual mix factors	0	0	0	0
Default location-based factors	0	0	0	0
Total	78.4	100	0.00396	100

Assessment Summary for Oslo

Gross Overall Emissions (location-based): 96.7 tCO₂e

Gross Overall Emissions (market-based): 96.7 tCO₂e

Summary by Activity (Location-Based, tCO₂e)



By Activity	tCO ₂ e/year	%
Commuting	48.1	49.7
Office supply	40.8	42.1
Business Travel	6.97	7.21
Premises	0.888	0.919
Total	96.7	100

Summary by Activity (Market-Based, tCO₂e)



By Activity	tCO ₂ e/year	%
Commuting	48.1	49.7
Office supply	40.8	42.1
Business Travel	6.97	7.2
Premises	0.902	0.933
Total	96.7	100

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



By Activity	tCO ₂ e/year	%
Scope 2	0.541	0.56
Scope 3	96.2	99.4
Total	96.7	100

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



By Activity	tCO ₂ e/year	%
Scope 2	0.00396	0.00409
Scope 3	96.7	100
Total	96.7	100

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	44.2	44.2	43.6	43.6
CH ₄	28	0.00214	0.0598	0.00208	0.0582
N ₂ O	265	9.77e-4	0.259	9.69e-4	0.257
CO ₂ e	1	52.2	52.2	52.8	52.8
		Total	96.7		96.7

Summary of Scope 2 Market-Based Method for Oslo

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	78.4	100	0.00396	100
Residual mix factors	0	0	0	0
Default location-based factors	0	0	0	0
Total	78.4	100	0.00396	100

Assessment Summary for Finland

Gross Overall Emissions (location-based): 21.6 tCO₂e

Gross Overall Emissions (market-based): 20.2 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
195 Floor area (square metres)	0.111 tCO ₂ e per square metre (Location-Based)
223 Credit volume (MSEK)	0.097 tCO ₂ e per Credit volume (MSEK) (Location-Based)
188,000 Total Sales (KSEK)	1.15e-4 tCO ₂ e per Total Sales (KSEK) (Location-Based)
18 Full Time Equivalent Employees	1.2 tCO ₂ e per Full Time Equivalent Employee (Location-Based)
195 Floor area (square metres)	0.104 tCO ₂ e per square metre (Market-Based)
223 Credit volume (MSEK)	0.0908 tCO ₂ e per Credit volume (MSEK) (Market-Based)
188,000 Total Sales (KSEK)	1.08e-4 tCO ₂ e per Total Sales (KSEK) (Market-Based)
18 Full Time Equivalent Employees	1.12 tCO ₂ e per Full Time Equivalent Employee (Market-Based)

Summary by Activity (Location-Based, tCO₂e)



By Activity	tCO ₂ e/year	%
Commuting	8.86	40.9
Premises	6.07	28
Office supply	4.33	20
Business Travel	2.39	11
Total	21.6	100

Summary by Activity (Market-Based, tCO₂e)



By Activity	tCO ₂ e/year	%
Commuting	8.86	43.8
Premises	4.67	23.1
Office supply	4.33	21.4
Business Travel	2.39	11.8
Total	20.2	100

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



By Activity	tCO ₂ e/year	%
Scope 2	4.82	22.3
Scope 3	16.8	77.7
Total	21.6	100

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



By Activity	tCO ₂ e/year	%
Scope 2	3.68	18.2
Scope 3	16.6	81.8
Total	20.2	100

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	13.7	13.7	12.6	12.6
CH ₄	28	4.29e-4	0.012	3.95e-4	0.0111
N ₂ O	265	2.23e-4	0.059	2.06e-4	0.0546
Biogenic CO ₂	0	5.78e-4	0	5.78e-4	0
CO ₂ e	1	7.82	7.82	7.6	7.6
		Total	21.6		20.2

Summary of Scope 2 Market-Based Method for Finland

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	9.17	23.2	0.00266	0.0723
Residual mix factors	0	0	0	0
Default location-based factors	30.4	76.8	3.68	99.9
Total	39.6	100	3.68	100

Assessment Summary for Helsingfors

Gross Overall Emissions (location-based): 21.6 tCO₂e

Gross Overall Emissions (market-based): 20.2 tCO₂e

Summary by Activity (Location-Based, tCO₂e)



By Activity	tCO ₂ e/year	%
Commuting	8.86	40.9
Premises	6.07	28
Office supply	4.33	20
Business Travel	2.39	11
Total	21.6	100

Summary by Activity (Market-Based, tCO₂e)



By Activity	tCO ₂ e/year	%
Commuting	8.86	43.8
Premises	4.67	23.1
Office supply	4.33	21.4
Business Travel	2.39	11.8
Total	20.2	100

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



By Activity	tCO ₂ e/year	%
Scope 2	4.82	22.3
Scope 3	16.8	77.7
Total	21.6	100

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



By Activity	tCO ₂ e/year	%
Scope 2	3.68	18.2
Scope 3	16.6	81.8
Total	20.2	100

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	13.7	13.7	12.6	12.6
CH ₄	28	4.29e-4	0.012	3.95e-4	0.0111
N ₂ O	265	2.23e-4	0.059	2.06e-4	0.0546
Biogenic CO ₂	0	5.78e-4	0	5.78e-4	0
CO ₂ e	1	7.82	7.82	7.6	7.6
		Total	21.6		20.2

Summary of Scope 2 Market-Based Method for Helsingfors

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	9.17	23.2	0.00266	0.0723
Residual mix factors	0	0	0	0
Default location-based factors	30.4	76.8	3.68	99.9
Total	39.6	100	3.68	100

Appendix 1 - Result of credit portfolio calculation

Market-based, CO_{2e} ton

Total			
	Apartments	Houses	Total
Total	14 512	81 411	95 922
Per MSEK	-	-	5,16
Per employee	-	-	351,4
Per squaremeter	0,047	0,084	0,045

Sweden			
	Apartments	Houses	Total
Total	9 232	39 206	48 438
Per MSEK	-	-	4,56
Per employee	-	-	260,4
Per squaremeter	0,030	0,040	0,038

Norway			
	Apartments	Houses	Total
Total	5 280	42 204	47 484
Per MSEK	-	-	6,14
Per employee	-	-	688,2
Per squaremeter	0,044	0,059	0,057

Finland			
	Apartments	Houses	Total
Total	0	0	0
Per MSEK	-	-	0
Per employee	-	-	0
Per squaremeter	0,000	0,000	0,000

Location-based, CO_{2e} ton

Total			
	Apartments	Houses	Total
Total	443	2 255	2 698
Per MSEK	-	-	0,15
Per employee	-	-	9,9
Per squaremeter	0,001	0,001	0,001

Sweden			
	Apartments	Houses	Total
Total	343	1 458	1 801
Per MSEK	-	-	0,17
Per employee	-	-	9,7
Per squaremeter	0,001	0,002	0,001

Norway			
	Apartments	Houses	Total
Total	100	797	897
Per MSEK	-	-	0,12
Per employee	-	-	13,0
Per squaremeter	0,001	0,001	0,001

Finland			
	Apartments	Houses	Total
Total	0	0	0
Per MSEK	-	-	0
Per employee	-	-	0
Per squaremeter	0,000	0,000	0,000