



# Greenhouse Gas Protocol (Dual Reporting) Report for U&W/ZM

Assessment Period: July 2019 - June 2020

Produced on Nov. 24, 2020 by *Our Impacts* on behalf of U&W

# Assessment Details

## Consolidation Approach

Control approach.

## Organisational Boundaries

Operations of U&W/ZM

### Included

- U&W/ZM
- U&We
- ZeroMission

## Operational Boundary

- Air travel
- Bicycle
- Bus and coach
- Cars
- Copy Paper
- Electricity
- Employee owned cars
- Ferry
- Food
- Hotel night stays
- IT Equipment
- Incinerated waste
- Office Supply
- On foot
- Paper and printed material
- Postal services
- Rail (train, tram, light rail, underground)
- Recycled waste
- Taxi
- Vans
- Water supply

## Quality Assurance Assessor

- Amanda Möttönen - amanda.mottonen@uandwe.se
- Håkan Emilsson - hakan.emilsson@uandwe.se
- Julia Senninger - julia.senninger@zeromission.se
- Linnea Skogfors - linnea.skogfors@zeromission.se

# Table of Contents

Introduction	4
Data Quality and Availability	5
Assessment Summary for U&W/ZM	8
Detailed Results	12
Location-Based methodology	12
Market-Based methodology	14
Summary by Company Unit	17
Location-Based methodology	17
Market-Based methodology	18
Annual Activity Data	19
References	22
Assessment Summary for U&We	23
Assessment Summary for ZeroMission	25

# 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<sub>2</sub>e<sup>1</sup>. The seven Kyoto gases are carbon dioxide (CO<sub>2</sub>), methane (CH<sub>4</sub>), nitrous oxide (N<sub>2</sub>O), hydrofluorocarbons (HFCs), nitrogen trifluoride (NF<sub>3</sub>), sulphur hexafluoride (SF<sub>6</sub>) 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 <sub>2</sub> )	1
Methane (CH <sub>4</sub> )	25
Nitrous oxide (N <sub>2</sub> O)	298
Hydrofluorocarbons (HFCs)	124 - 14,800
Perfluorocarbons (PFCs)	7,390 - 12,200
Nitrogen trifluoride (NF <sub>3</sub> )	17,200
Sulphur hexafluoride (SF <sub>6</sub> )	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.

---

<sup>1</sup> Carbon dioxide equivalent or CO<sub>2</sub>e is a term for describing different greenhouse gases in a common unit. For any quantity and type of greenhouse gas, CO<sub>2</sub>e signifies the amount of CO<sub>2</sub> 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 <sub>2</sub> e/year	%
Actual	54.2	98.9
Estimated	0.584	1.07
<b>Total</b>	<b>54.8</b>	<b>100</b>



Market-based Accuracy Overview		
	tCO <sub>2</sub> e/year	%
Actual	54	98.9
Estimated	0.585	1.07
<b>Total</b>	<b>54.6</b>	<b>100</b>

**Table 2. Data Quality and Availability**

Source of emissions	Data quality
<b>Premises</b>	
Electricity	Actual
Office Supply	Actual
<b>Business Travel</b>	
Air travel	Actual
Bicycle	Mixed
Bus and coach	Mixed
Cars	Actual
Employee owned cars	Mixed
Ferry	Mixed
Hotel night stays	Actual
Rail (train, tram, light rail, underground)	Mixed
Taxi	Mixed
<b>Inbound third-party deliveries</b>	
Bicycle	Mixed
Cars	Estimated
Postal services	Estimated

Rail (train, tram, light rail, underground)	Mixed
Road freight, shared vehicle (tonne.km factors)	N/A
Vans	Mixed
<b>Reductions - Offsets</b>	
Emission reductions	N/A
Estimated emissions	N/A
<b>Electricity</b>	
Electricity	Mixed
<b>Electricity and Heating</b>	
District cooling	N/A
<b>Office supply</b>	
Copy Paper	Actual
Paper and printed material	Actual
<b>Food</b>	
Food	Mixed
<b>Products</b>	
Estimated emissions	N/A
IT Equipment	Actual
<b>Event site</b>	
Food	Actual
Rail (train, tram, light rail, underground)	Estimated
<b>Waste</b>	
Estimated emissions	N/A
Incinerated waste	Actual
Landfilled waste	N/A
Recycled waste	Actual
<b>Water</b>	
Water supply	Actual
<b>Commuting</b>	
Bicycle	Mixed
Bus and coach	Mixed
Employee owned cars	Estimated
Ferry	Estimated
On foot	Mixed
Rail (train, tram, light rail, underground)	Mixed
<b>IT equipment</b>	
IT Equipment	Mixed
<b>Materials purchased</b>	
Total emissions	N/A
<b>Business travel - External</b>	
Air travel	N/A
Bus and coach	N/A

---

Cars

Actual

---

Rail (train, tram, light rail, underground)

Estimated

# Assessment Summary for U&W/ZM

**Gross Overall Emissions (location-based): 54.8 tCO<sub>2</sub>e**

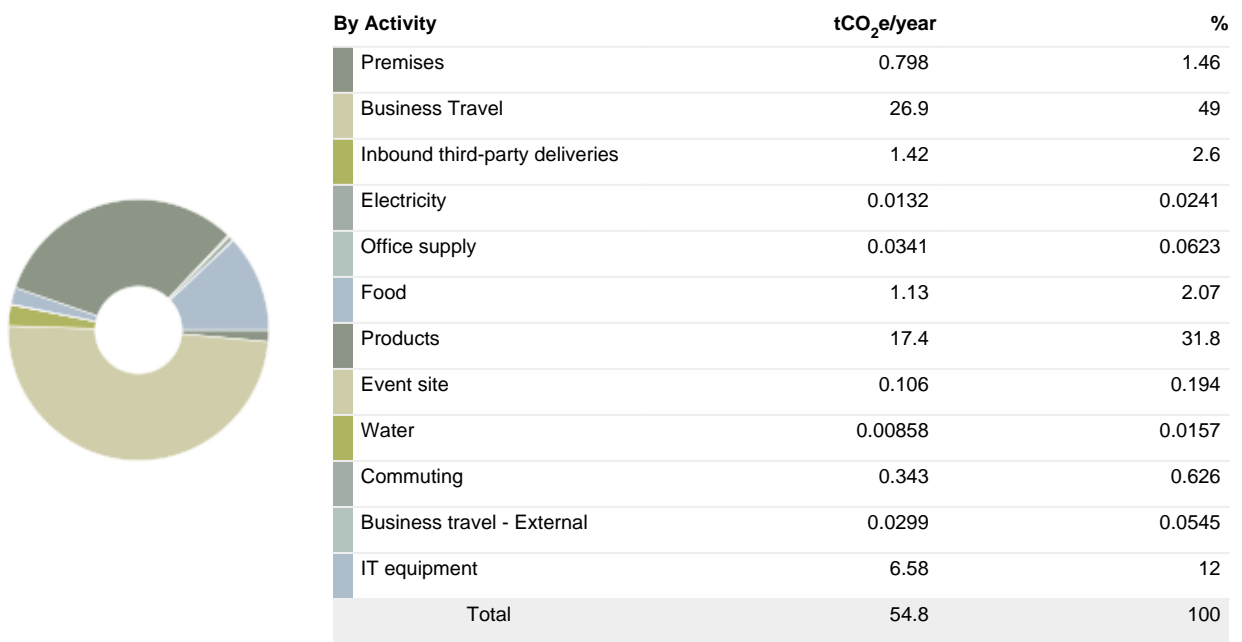
**Gross Overall Emissions (market-based): 54.6 tCO<sub>2</sub>e**

## 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 CO<sub>2</sub>e per full time equivalent. This has been calculated, along with other relevant metrics, in the table below:

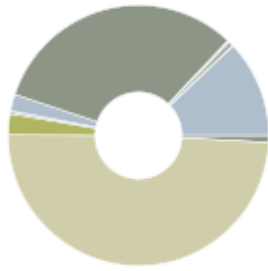
Data	KPI
195 Floor area (square metres)	0.281 tCO <sub>2</sub> e per square metre (Location-Based)
20.7 Full Time Equivalent Employees	2.65 tCO <sub>2</sub> e per Full Time Equivalent Employee (Location-Based)
195 Floor area (square metres)	0.28 tCO <sub>2</sub> e per square metre (Market-Based)
20.7 Full Time Equivalent Employees	2.64 tCO <sub>2</sub> e per Full Time Equivalent Employee (Market-Based)

## Summary by Activity (Location-Based, tCO<sub>2</sub>e)



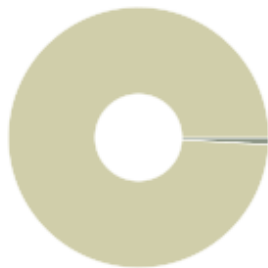
## Summary by Activity (Market-Based, tCO<sub>2</sub>e)





By Activity	tCO <sub>2</sub> e/year	%
Premises	0.471	0.863
Business Travel	26.9	49.2
Inbound third-party deliveries	1.42	2.61
Electricity	0.163	0.298
Office supply	0.0341	0.0625
Food	1.13	2.07
Products	17.4	31.9
Event site	0.106	0.194
Water	0.00858	0.0157
Commuting	0.343	0.628
Business travel - External	0.0299	0.0547
IT equipment	6.58	12.1
<b>Total</b>	<b>54.6</b>	<b>100</b>

#### Summary by WBCSD/WRI Scope (Location-Based, tCO<sub>2</sub>e)



Scope	tCO <sub>2</sub> e/year	%
Scope 2	0.484	0.883
Scope 3	54.3	99.1
<b>Total</b>	<b>54.8</b>	<b>100</b>

#### Summary by WBCSD/WRI Scope (Market-Based, tCO<sub>2</sub>e)



Scope	tCO <sub>2</sub> e/year	%
Scope 2	0.023	0.0422
Scope 3	54.6	100
<b>Total</b>	<b>54.6</b>	<b>100</b>

#### Summary by Greenhouse Gas

Greenhouse Gas	GWP	tGHG/year (Location-Based)	tCO <sub>2</sub> e/year (Location-Based)	tGHG/year (Market-Based)	tCO <sub>2</sub> e/year (Market-Based)
CO <sub>2</sub>	1	25.4	25.4	25.2	25.2
CH <sub>4</sub>	25	3.6e-4	0.00901	2.79e-4	0.00698
N <sub>2</sub> O	298	4.15e-4	0.124	4.03e-4	0.12
CO <sub>2</sub> e	1	29.2	29.2	29.2	29.2

Total	54.8	54.6
-------	------	------

# Summary of Scope 2 Market-Based Method for U&W/ZM

## 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 <sub>2</sub> e	%
Client-supplied market-based instrument	20.8	100	0.023	100
Residual mix factors	0	0	0	0
Default location-based factors	0	0	0	0
<b>Total</b>	<b>20.8</b>	<b>100</b>	<b>0.023</b>	<b>100</b>

# Detailed Results

## Detailed Summary by WBCSD/WRI Scope

### Location-Based methodology

Source of Emissions	tCO <sub>2</sub> /yr	tCH <sub>4</sub> /yr	tN <sub>2</sub> O/yr	Total Emissions (tCO <sub>2</sub> e/yr)	%
<b>Scope 2 Total</b>	<b>0.478</b>	<b>7.44e-5</b>	<b>1.1e-5</b>	<b>0.484</b>	<b>0.883%</b>
Premises Total	0.478	7.44e-5	1.1e-5	0.484	0.883%
Electricity	0.478	7.44e-5	1.1e-5	0.484	0.883%
<b>Scope 3 Total</b>	<b>25</b>	<b>2.86e-4</b>	<b>4.04e-4</b>	<b>54.3</b>	<b>99.1%</b>
Business Travel Total	23.6	2.75e-4	3.63e-4	26.9	49%
Air travel	20.3	5.14e-5	3.22e-4	20.4	37.3%
Air travel: Flights, long-haul, economy, upstream emissions	0	0	0	1.59	2.91%
Air travel: Flights, medium-haul, average, upstream emissions	0	0	0	0.0615	0.112%
Air travel: Flights, medium-haul, economy, upstream emissions	0	0	0	0.472	0.862%
Bicycle	0	0	0	0	0%
Bus and coach	0.337	2.53e-6	9.8e-6	0.356	0.651%
Bus and coach: Average bus, upstream emissions	0	0	0	0.0055	0.01%
Bus and coach: City bus, upstream emissions	0	0	0	7.86e-4	0.00144%
Bus and coach: Coach, upstream emissions	0.00229	1.19e-5	3.77e-7	0.0027	0.00494%
Bus and coach: Local bus, upstream emissions	0	0	0	0.0692	0.126%
Cars	0.017	6.4e-7	3.66e-7	0.0171	0.0313%
Employee owned cars	0.156	7.08e-7	6.78e-6	0.549	1%
Employee owned cars: Average diesel car, upstream emissions	0	0	0	0.0365	0.0667%
Ferry	0.103	1.28e-6	4.73e-6	0.121	0.222%
Hotel night stays	2.4	1.87e-4	1.19e-5	2.4	4.39%
Rail (train, tram, light rail, underground)	0.251	1.93e-5	6.14e-6	0.667	1.22%
Rail (train, tram, light rail, underground): Eurostar, upstream emissions	0	0	0	0.00428	0.00782%
Rail (train, tram, light rail, underground): Light rail, upstream emissions	0.00143	9.67e-8	1.26e-8	0.00144	0.00262%
Rail (train, tram, light rail, underground): Train, national, upstream emissions	0	0	0	0.0427	0.078%
Rail (train, tram, light rail, underground): Underground, upstream emissions	0.0017	1.16e-7	1.5e-8	0.00171	0.00311%
Taxi	0.0221	3.64e-7	6.8e-7	0.0223	0.0407%
Taxi: Regular taxi, upstream emissions	0	0	0	0.0066	0.012%
<b>Business travel - External Total</b>	<b>0.0296</b>	<b>1.16e-6</b>	<b>6.18e-7</b>	<b>0.0299</b>	<b>0.0545%</b>
Cars	0.0281	1.06e-6	6.04e-7	0.0283	0.0516%
Rail (train, tram, light rail, underground)	0	0	0	0	0%

Rail (train, tram, light rail, underground): Underground, upstream emissions	0.00157	1.07e-7	1.39e-8	0.00158	0.00289%
<b>Commuting Total</b>	<b>0.141</b>	<b>1.93e-6</b>	<b>2.38e-6</b>	<b>0.343</b>	<b>0.626%</b>
Bicycle	0	0	0	0	0%
Bus and coach	0.122	5.97e-7	2.21e-6	0.122	0.223%
Bus and coach: City bus, upstream emissions	0	0	0	0.0293	0.0535%
Employee owned cars	0	0	0	0.104	0.189%
Ferry	0	0	0	0.055	0.1%
On foot	0	0	0	0	0%
Rail (train, tram, light rail, underground)	0	0	0	0.0128	0.0233%
Rail (train, tram, light rail, underground): Light rail, upstream emissions	4.99e-4	3.37e-8	4.39e-9	5.01e-4	9.15e-4%
Rail (train, tram, light rail, underground): Underground, upstream emissions	0.019	1.3e-6	1.68e-7	0.0191	0.0349%
<b>Electricity Total</b>	<b>0.0122</b>	<b>1.9e-6</b>	<b>2.82e-7</b>	<b>0.0132</b>	<b>0.0241%</b>
Electricity	0.0115	1.78e-6	2.65e-7	0.0116	0.0212%
Electricity: Electricity - transmission & distribution losses (MCR)	7.55e-4	1.17e-7	1.74e-8	7.63e-4	0.00139%
Electricity: Electricity grid, T&D losses, upstream emissions	0	0	0	5.25e-5	9.59e-5%
Electricity: Electricity grid, generated, upstream emissions	0	0	0	7.78e-4	0.00142%
<b>Event site Total</b>	<b>8.48e-4</b>	<b>5.77e-8</b>	<b>7.49e-9</b>	<b>0.106</b>	<b>0.194%</b>
Food	0	0	0	0.105	0.192%
Rail (train, tram, light rail, underground)	0	0	0	0	0%
Rail (train, tram, light rail, underground): Underground, upstream emissions	8.48e-4	5.77e-8	7.49e-9	8.52e-4	0.00156%
<b>Food Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1.13</b>	<b>2.07%</b>
Food	0	0	0	1.13	2.07%
<b>IT equipment Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>6.58</b>	<b>12%</b>
IT Equipment	0	0	0	6.58	12%
<b>Inbound third-party deliveries Total</b>	<b>1.13</b>	<b>8.47e-7</b>	<b>3.7e-5</b>	<b>1.42</b>	<b>2.6%</b>
Bicycle	0	0	0	0	0%
Cars	0.0204	7.68e-7	4.39e-7	0.0206	0.0376%
Postal services	0	0	0	0.0086	0.0157%
Rail (train, tram, light rail, underground)	0	0	0	0	0%
Rail (train, tram, light rail, underground): Underground, upstream emissions	0.00117	7.93e-8	1.03e-8	0.00117	0.00214%
Vans	1.11	0	3.65e-5	1.12	2.05%
Vans: Medium diesel van, upstream emissions	0	0	0	0.27	0.494%
<b>Office supply Total</b>	<b>0.00597</b>	<b>0</b>	<b>0</b>	<b>0.0341</b>	<b>0.0623%</b>
Copy Paper	0.00597	0	0	0.00597	0.0109%
Paper and printed material	0	0	0	0.0281	0.0514%
<b>Premises Total</b>	<b>0.0315</b>	<b>4.9e-6</b>	<b>7.26e-7</b>	<b>0.314</b>	<b>0.574%</b>

Electricity: Electricity - transmission & distribution losses (MCR)	0.0315	4.9e-6	7.26e-7	0.0318	0.0581%
Electricity: Electricity grid, T&D losses, upstream emissions	0	0	0	0.00219	0.004%
Electricity: Electricity grid, generated, upstream emissions	0	0	0	0.0324	0.0593%
Office Supply	0	0	0	0.248	0.453%
<b>Products Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>17.4</b>	<b>31.8%</b>
IT Equipment	0	0	0	17.4	31.8%
<b>Waste Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0%</b>
Incinerated waste	0	0	0	0	0%
Recycled waste	0	0	0	0	0%
<b>Water Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.00858</b>	<b>0.0157%</b>
Water supply	0	0	0	0.00858	0.0157%
<b>Total</b>	<b>25.4</b>	<b>3.6e-4</b>	<b>4.15e-4</b>	<b>54.8</b>	<b>100%</b>

### Market-Based methodology

Source of Emissions	tCO <sub>2</sub> /yr	tCH <sub>4</sub> /yr	tN <sub>2</sub> O/yr	Total Emissions (tCO <sub>2</sub> e/yr)	%
<b>Scope 2 Total</b>	<b>0.00327</b>	<b>0</b>	<b>0</b>	<b>0.023</b>	<b>0.0422%</b>
Premises Total	0.00327	0	0	0.023	0.0422%
Electricity	0.00327	0	0	0.023	0.0422%
<b>Scope 3 Total</b>	<b>25.2</b>	<b>2.79e-4</b>	<b>4.03e-4</b>	<b>54.6</b>	<b>100%</b>
Business Travel Total	23.6	2.75e-4	3.63e-4	26.9	49.2%
Air travel	20.3	5.14e-5	3.22e-4	20.4	37.4%
Air travel: Flights, long-haul, economy, upstream emissions	0	0	0	1.59	2.92%
Air travel: Flights, medium-haul, average, upstream emissions	0	0	0	0.0615	0.113%
Air travel: Flights, medium-haul, economy, upstream emissions	0	0	0	0.472	0.865%
Bicycle	0	0	0	0	0%
Bus and coach	0.337	2.53e-6	9.8e-6	0.356	0.653%
Bus and coach: Average bus, upstream emissions	0	0	0	0.0055	0.0101%
Bus and coach: City bus, upstream emissions	0	0	0	7.86e-4	0.00144%
Bus and coach: Coach, upstream emissions	0.00229	1.19e-5	3.77e-7	0.0027	0.00495%
Bus and coach: Local bus, upstream emissions	0	0	0	0.0692	0.127%
Cars	0.017	6.4e-7	3.66e-7	0.0171	0.0314%
Employee owned cars	0.156	7.08e-7	6.78e-6	0.549	1.01%
Employee owned cars: Average diesel car, upstream emissions	0	0	0	0.0365	0.0669%
Ferry	0.103	1.28e-6	4.73e-6	0.121	0.223%
Hotel night stays	2.4	1.87e-4	1.19e-5	2.4	4.4%

Rail (train, tram, light rail, underground)	0.251	1.93e-5	6.14e-6	0.667	1.22%
Rail (train, tram, light rail, underground): Eurostar, upstream emissions	0	0	0	0.00428	0.00785%
Rail (train, tram, light rail, underground): Light rail, upstream emissions	0.00143	9.67e-8	1.26e-8	0.00144	0.00263%
Rail (train, tram, light rail, underground): Train, national, upstream emissions	0	0	0	0.0427	0.0782%
Rail (train, tram, light rail, underground): Underground, upstream emissions	0.0017	1.16e-7	1.5e-8	0.00171	0.00312%
Taxi	0.0221	3.64e-7	6.8e-7	0.0223	0.0409%
Taxi: Regular taxi, upstream emissions	0	0	0	0.0066	0.0121%
<b>Business travel - External Total</b>	<b>0.0296</b>	<b>1.16e-6</b>	<b>6.18e-7</b>	<b>0.0299</b>	<b>0.0547%</b>
Cars	0.0281	1.06e-6	6.04e-7	0.0283	0.0518%
Rail (train, tram, light rail, underground)	0	0	0	0	0%
Rail (train, tram, light rail, underground): Underground, upstream emissions	0.00157	1.07e-7	1.39e-8	0.00158	0.0029%
<b>Commuting Total</b>	<b>0.141</b>	<b>1.93e-6</b>	<b>2.38e-6</b>	<b>0.343</b>	<b>0.628%</b>
Bicycle	0	0	0	0	0%
Bus and coach	0.122	5.97e-7	2.21e-6	0.122	0.224%
Bus and coach: City bus, upstream emissions	0	0	0	0.0293	0.0537%
Employee owned cars	0	0	0	0.104	0.19%
Ferry	0	0	0	0.055	0.101%
On foot	0	0	0	0	0%
Rail (train, tram, light rail, underground)	0	0	0	0.0128	0.0234%
Rail (train, tram, light rail, underground): Light rail, upstream emissions	4.99e-4	3.37e-8	4.39e-9	5.01e-4	9.18e-4%
Rail (train, tram, light rail, underground): Underground, upstream emissions	0.019	1.3e-6	1.68e-7	0.0191	0.035%
<b>Electricity Total</b>	<b>0.162</b>	<b>1.17e-7</b>	<b>1.74e-8</b>	<b>0.163</b>	<b>0.298%</b>
Electricity	0.161	0	0	0.161	0.295%
Electricity: Electricity - transmission & distribution losses (MCR)	7.55e-4	1.17e-7	1.74e-8	7.63e-4	0.0014%
Electricity: Electricity grid, T&D losses, upstream emissions	0	0	0	5.25e-5	9.62e-5%
Electricity: Electricity grid, generated, upstream emissions	0	0	0	7.78e-4	0.00143%
<b>Event site Total</b>	<b>8.48e-4</b>	<b>5.77e-8</b>	<b>7.49e-9</b>	<b>0.106</b>	<b>0.194%</b>
Food	0	0	0	0.105	0.193%
Rail (train, tram, light rail, underground)	0	0	0	0	0%
Rail (train, tram, light rail, underground): Underground, upstream emissions	8.48e-4	5.77e-8	7.49e-9	8.52e-4	0.00156%
<b>Food Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1.13</b>	<b>2.07%</b>
Food	0	0	0	1.13	2.07%
<b>IT equipment Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>6.58</b>	<b>12.1%</b>
IT Equipment	0	0	0	6.58	12.1%
<b>Inbound third-party deliveries Total</b>	<b>1.13</b>	<b>8.47e-7</b>	<b>3.7e-5</b>	<b>1.42</b>	<b>2.61%</b>

Bicycle	0	0	0	0	0%
Cars	0.0204	7.68e-7	4.39e-7	0.0206	0.0377%
Postal services	0	0	0	0.0086	0.0158%
Rail (train, tram, light rail, underground)	0	0	0	0	0%
Rail (train, tram, light rail, underground): Underground, upstream emissions	0.00117	7.93e-8	1.03e-8	0.00117	0.00215%
Vans	1.11	0	3.65e-5	1.12	2.06%
Vans: Medium diesel van, upstream emissions	0	0	0	0.27	0.495%
<b>Office supply Total</b>	<b>0.00597</b>	<b>0</b>	<b>0</b>	<b>0.0341</b>	<b>0.0625%</b>
Copy Paper	0.00597	0	0	0.00597	0.0109%
Paper and printed material	0	0	0	0.0281	0.0516%
<b>Premises Total</b>	<b>0.16</b>	<b>0</b>	<b>0</b>	<b>0.448</b>	<b>0.82%</b>
Electricity: MBI Upstream Emissions	0.16	0	0	0.2	0.366%
Office Supply	0	0	0	0.248	0.454%
<b>Products Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>17.4</b>	<b>31.9%</b>
IT Equipment	0	0	0	17.4	31.9%
<b>Waste Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0%</b>
Incinerated waste	0	0	0	0	0%
Recycled waste	0	0	0	0	0%
<b>Water Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.00858</b>	<b>0.0157%</b>
Water supply	0	0	0	0.00858	0.0157%
<b>Total</b>	<b>25.2</b>	<b>2.79e-4</b>	<b>4.03e-4</b>	<b>54.6</b>	<b>100%</b>



# Summary by Company Unit

Location-Based methodology

Assessment	July 2018 - June 2019		July 2019 - June 2020	
Company Unit	Total Emissions (tCO <sub>2</sub> e)	Emissions per FTE (tCO <sub>2</sub> e/FTE)	Total Emissions (tCO <sub>2</sub> e)	Emissions per FTE (tCO <sub>2</sub> e/FTE)
U&W/ZM	50.9	2.91	54.8	2.65
U&We	6.55	0.595	20.7	1.89
ZeroMission	41	6.3	28.5	2.94

**Market-Based methodology**

<b>Assessment</b>	<b>July 2018 - June 2019</b>		<b>July 2019 - June 2020</b>	
<b>Company Unit</b>	<b>Total Emissions (tCO<sub>2</sub>e)</b>	<b>Emissions per FTE (tCO<sub>2</sub>e/FTE)</b>	<b>Total Emissions (tCO<sub>2</sub>e)</b>	<b>Emissions per FTE (tCO<sub>2</sub>e/FTE)</b>
U&W/ZM	50.6	2.89	54.6	2.64
U&We	6.55	0.595	20.7	1.89
ZeroMission	41	6.3	28.7	2.95

# Annual Activity Data

Source of Emissions	Value	Unit
<b>Business Travel</b>		
Air travel		
Long-haul, economy (RFI 2)	97,023	pass.km
Medium-haul, average class (RFI 2)	3,548	pass.km
Medium-haul, economy (RFI 2)	28,043	pass.km
Short-haul (RFI 2)	0	pass.km
Bicycle		
Bicycle	3,015	km
Bus and coach		
Average bus	16.2	kg
Average bus	220	pass.km
City bus	40	pass.km
Coach	936	pass.km
Local bus	2,408	pass.km
Cars		
Average car (unknown fuel)	100	km
Employee owned cars		
Average diesel car	59	l
Average ethanol car (E85)	170	km
Medium CNG car	371	kg
Ferry		
Average ferry passenger	486	pass.km
Ferry, foot passenger	16.7	kg
Ferry, foot passenger	2,665	pass.km
Hotel night stays		
Hotel night stays	133	night
Rail (train, tram, light rail, underground)		
Eurostar	5,160	pass.km
Light rail/Tram	1,233	pass.km
Swedish rail	44,737	pass.km
Train, national	5,406	pass.km
Train, regional and local	7,872	pass.km
Underground/Subway	1,602	pass.km
Taxi		
Average taxi	77	km
Hybrid taxi	55	km
<b>Business travel - External</b>		
Cars		
Average car (unknown fuel)	165	km

Rail (train, tram, light rail, underground)		
Underground/Subway	1,485	pass.km
<b>Commuting</b>		
Bicycle		
Bicycle	17,693	km
Bus and coach		
City bus	1,493	pass.km
Employee owned cars		
Average ethanol car (E85)	780	km
Vehicle gas car (biogas/CNG)	400	km
Ferry		
Average ferry passenger	55	kg
On foot		
On foot	900	km
Rail (train, tram, light rail, underground)		
Light rail/Tram	430	pass.km
Swedish rail	58,024	pass.km
Underground/Subway	17,966	pass.km
<b>Electricity</b>		
Electricity		
Electricity consumption	26.2	kWh
Electricity consumption (Nordic Market)	472	kWh
<b>Event site</b>		
Food		
Meal	105	kg
Rail (train, tram, light rail, underground)		
Underground/Subway	800	pass.km
<b>Food</b>		
Food		
Meal	1,132	kg
<b>IT equipment</b>		
IT Equipment		
Total CO2e emissions	5,155	kg
Total CO2e emissions	1.43	tonne
<b>Inbound third-party deliveries</b>		
Bicycle		
Bicycle	58	km
Cars		
Average car (unknown fuel)	120	km
Postal services		
Total CO2 emissions (metric tonnes)	8.6	kg
Rail (train, tram, light rail, underground)		

Underground/Subway	1,100	pass.km
<b>Vans</b>		
Medium diesel van	5,945	km
<b>Office supply</b>		
<b>Copy Paper</b>		
Copy paper (Sweden)	29	kg
<b>Paper and printed material</b>		
Office paper (from Sweden)	1.4	kg
Printed material (from Sweden)	137	kg
<b>Premises</b>		
<b>Electricity</b>		
Electricity consumption (Nordic Market)	20,775	kWh
<b>Office Supply</b>		
Coffee	248	kg
<b>Products</b>		
<b>IT Equipment</b>		
Total CO2e emissions	430	kg
Total CO2e emissions	17	tonne
<b>Waste</b>		
<b>Incinerated waste</b>		
Waste, incinerated (heat recovery), MSW	10.5	kg
<b>Recycled waste</b>		
Waste, recycled	792	kg
<b>Water</b>		
<b>Water supply</b>		
Water supply	85.8	m3

# References

IEA (2019). Statistics. <http://www.iea.org/stats/index.asp>

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

0

AIB (2020). European Residual Mixes 2019. Version 1.0, 2020-05-29. Association of Issuing Bodies.

BEIS (2019). UK Government conversion factors for greenhouse gas reporting. Department for Business, Energy and Industrial Strategy, London.

CIBSE (2012). Energy Efficiency in Buildings, Guide F. The Chartered Institution of Building Services Engineers.

Client-supplied market-based instrument emission factor

Defra/DECC (2011). Guidelines to Defra/DECC's GHG conversion factors for company reporting. Department of Environment Food and Rural Affairs/Department for Energy and Climate Change, London.

Department for Business, Energy and Industrial Strategy (2019). 2019 Government GHG Conversion Factors for Company Reporting.

Department for Business, Energy and Industrial Strategy (2020). 2020 Government GHG Conversion Factors for Company Reporting.

Deutsche Bahn (2019). 2018 Integrated Report.

Ecometrica 2010. Internal Paper Profiles Database.

Energimyndigheten (2019). Drivmedel 2018. Redovisning av rapporterade uppgifter enligt drivmedelslagen, hållbarhetslagen och reduktionsplikten. Available to download from:  
<http://www.energimyndigheten.se/fornybart/hallbarhetskriterier/drivmedelslagen/drivmedelsrapportering/>

Governo do Brasil (2019). MCTIC. Arquivos dos fatores médios de emissão de CO2 grid mês/ano. Ministério da Ciência, Tecnologia, Inovações e Comunicações. Online: [http://www.mctic.gov.br/mctic/opencms/ciencia/SEPED/clima/textogeral/emissao\\_corporativos.html](http://www.mctic.gov.br/mctic/opencms/ciencia/SEPED/clima/textogeral/emissao_corporativos.html). Accessed August 2019.

IEA (2019). Statistics. <http://www.iea.org/stats/index.asp>

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

NTM (2017). NTMCalc Advanced 4.0. Environmental performance report.

Paper Profiles (2019). Paper Profiles database. Updated September 2019. Available at: <http://www.paperprofile.com/>.

SJ (2019). SJ Sustainability Report 2018.

Swedish Energy Markets Inspectorate (2020). <https://www.ei.se/sv/for-energiforetag/el/ursprungsmarkning-av-el/>

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

hanchor5. Accessed August 2020

none - direct emissions entry

provided by Antalis Paper Merchant

# Assessment Summary for U&We

**Gross Overall Emissions (location-based): 20.7 tCO<sub>2</sub>e**

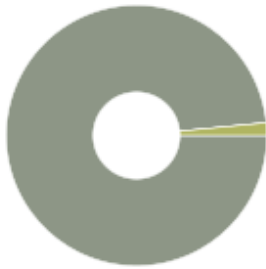
**Gross Overall Emissions (market-based): 20.7 tCO<sub>2</sub>e**

## 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 CO<sub>2</sub>e per full time equivalent. This has been calculated, along with other relevant metrics, in the table below:

Data	KPI
11 Full Time Equivalent Employees	1.89 tCO <sub>2</sub> e per Full Time Equivalent Employee (Location-Based)
12,833 Turnover (KSEK)	0.00162 tCO <sub>2</sub> e per Turnover (KSEK) (Location-Based)
11 Full Time Equivalent Employees	1.89 tCO <sub>2</sub> e per Full Time Equivalent Employee (Market-Based)
12,833 Turnover (KSEK)	0.00162 tCO <sub>2</sub> e per Turnover (KSEK) (Market-Based)

## Summary by Activity (Location-Based, tCO<sub>2</sub>e)



By Activity	tCO <sub>2</sub> e/year	%
Business Travel	20.4	98.4
Office supply	0.00306	0.0147
Commuting	0.324	1.56
<b>Total</b>	<b>20.7</b>	<b>100</b>

## Summary by Activity (Market-Based, tCO<sub>2</sub>e)



By Activity	tCO <sub>2</sub> e/year	%
Business Travel	20.4	98.4
Office supply	0.00306	0.0147
Commuting	0.324	1.56
<b>Total</b>	<b>20.7</b>	<b>100</b>

## Summary by WBCSD/WRI Scope (Location-Based, tCO<sub>2</sub>e)



Scope	tCO <sub>2</sub> e/year	%
Scope 3	20.7	100
Total	20.7	100

**Summary by WBCSD/WRI Scope (Market-Based, tCO<sub>2</sub>e)**



Scope	tCO <sub>2</sub> e/year	%
Scope 3	20.7	100
Total	20.7	100

**Summary by Greenhouse Gas**

Greenhouse Gas	GWP	tGHG/year (Location-Based)	tCO <sub>2</sub> e/year (Location-Based)	tGHG/year (Market-Based)	tCO <sub>2</sub> e/year (Market-Based)
CO <sub>2</sub>	1	18.2	18.2	18.2	18.2
CH <sub>4</sub>	25	1.21e-4	0.00303	1.21e-4	0.00303
N <sub>2</sub> O	298	2.87e-4	0.0856	2.87e-4	0.0856
CO <sub>2</sub> e	1	2.47	2.47	2.47	2.47
		Total	20.7		20.7



# Assessment Summary for ZeroMission

**Gross Overall Emissions (location-based): 28.5 tCO<sub>2</sub>e**

**Gross Overall Emissions (market-based): 28.7 tCO<sub>2</sub>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 CO<sub>2</sub>e per full time equivalent. This has been calculated, along with other relevant metrics, in the table below:

Data	KPI
652,113 Number of units sold	4.37e-5 tCO <sub>2</sub> e per unit sold (Location-Based)
9.7 Full Time Equivalent Employees	2.94 tCO <sub>2</sub> e per Full Time Equivalent Employee (Location-Based)
57,571 Turnover (KSEK)	4.95e-4 tCO <sub>2</sub> e per Turnover (KSEK) (Location-Based)
652,113 Number of units sold	4.39e-5 tCO <sub>2</sub> e per unit sold (Market-Based)
9.7 Full Time Equivalent Employees	2.95 tCO <sub>2</sub> e per Full Time Equivalent Employee (Market-Based)
57,571 Turnover (KSEK)	4.98e-4 tCO <sub>2</sub> e per Turnover (KSEK) (Market-Based)

## Summary by Activity (Location-Based, tCO<sub>2</sub>e)



## Summary by Activity (Market-Based, tCO<sub>2</sub>e)



Summary by WBCSD/WRI Scope (Location-Based, tCO<sub>2</sub>e)



Scope	tCO <sub>2</sub> e/year	%
Scope 3	28.5	100
Total	28.5	100

Summary by WBCSD/WRI Scope (Market-Based, tCO<sub>2</sub>e)



Scope	tCO <sub>2</sub> e/year	%
Scope 3	28.7	100
Total	28.7	100

Summary by Greenhouse Gas

Greenhouse Gas	GWP	tGHG/year (Location-Based)	tCO <sub>2</sub> e/year (Location-Based)	tGHG/year (Market-Based)	tCO <sub>2</sub> e/year (Market-Based)
CO <sub>2</sub>	1	5.64	5.64	5.78	5.78
CH <sub>4</sub>	25	1.6e-4	0.00399	1.58e-4	0.00395
N <sub>2</sub> O	298	7.94e-5	0.0237	7.92e-5	0.0236
CO <sub>2</sub> e	1	22.8	22.8	22.8	22.8
		Total	28.5		28.7