

Perseus Emissions Report

Prepared for: **Money 4U Bank**

Not licensed for use by any other Financial Service Provider

Prepared on behalf of:

Acme Widgets Ltd

123 High Street

Anytown

XX1 1XX

Company number: 12345678

Prepared at: 14:15:16 UTC, 2024-11-12

Consumption period: 2023-10-01 - 2024-09-30

Data source: Smart Meter

Missing data: No

Processing:

Electricity calculation: the sum of the products of the half-hourly consumption and the corresponding grid intensity at the meter postcode

Gas calculation: the sum of the products of the half-hourly consumption in cubic meters and the most recent published greenhouse gas conversion factor for natural gas covering the time of consumption

Permission ID: DF1ED5764CA34

Month	Electricity consumption emissions (tCO ₂ e)	Gas consumption emissions (tCO ₂ e)
October 2023	1.234	1.234
November 2023	2.345	2.345
December 2023	3.456	3.456
January 2024	4.567	4.567
February 2024	5.678	5.678
March 2024	6.789	6.789
April 2024	1.234	1.234
May 2024	2.345	2.345
June 2024	3.456	3.456
July 2024	4.567	4.567
August 2024	5.678	5.678

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September 2024	6.789	6.789
Total	48.145	48.145

Provenance chain

Meter Data Corp

- **Permission** from Acme Widgets Ltd
- **Origin** from Smart DCC
- **Transfer** to Carbon Accounting R Us

Carbon Accounting R Us

- **Receipt** from Meter Data Corp
- **Permission** from Acme Widgets Ltd
- **Origin** from api.carbonintensity.org.uk
- **Origin** from <https://www.gov.uk/government/publications/greenhouse-gas-reporting-conversion-factors-2023>
- **Origin** from <https://www.gov.uk/government/publications/greenhouse-gas-reporting-conversion-factors-2024>
- **Processed** by Carbon Accounting R Us
- **Transfer** to Money 4U Bank

permission

id	oGwKcZOoff3EFFjYXarl	
timestamp	2024-09-20T12:16:11Z	
type	permission	
scheme	https://registry.core.sandbox.trust.ib1.org/scheme/perseus	
account	abc12734634	
allows	licences	https://smartenergycodecompany.co.uk/documents/sec/consolidated-sec/ https://registry.core.sandbox.trust.ib1.org/scheme/perseus/energy-consumption-data/2024-12-05
expires	2025-09-20T12:16:11Z	
_signature		
	signed	

		member	https://directory.core.sandbox.trust.ib1.org/member/2876152
		name	Meter Data Readings Corp
		application	https://directory.core.sandbox.trust.ib1.org/scheme/perseus/application/38936455
		roles	https://registry.core.sandbox.trust.ib1.org/scheme/perseus/role/energy-data-provider
	includedBy		
		member	https://directory.core.sandbox.trust.ib1.org/member/81524
		name	Carbon Accounting R Us
		application	https://directory.core.sandbox.trust.ib1.org/scheme/perseus/application/26241
		roles	https://registry.core.sandbox.trust.ib1.org/scheme/perseus/role/carbon-accounting-provider

origin

id	y9Hug_opXLaH8i4tRECq
timestamp	2024-12-03T16:50:28Z
type	origin
scheme	https://registry.core.sandbox.trust.ib1.org/scheme/perseus
sourceType	https://registry.core.sandbox.trust.ib1.org/scheme/perseus/source-type/Meter
origin	https://www.smartdcc.co.uk/
originLicense	https://smartenergycodecompany.co.uk/documents/sec/consolidated-sec/

external	true			
permissions	oGwKcZOoff3EFFjYXarl			
perseus:scheme	meteringPeriod			
	from	2023-10-01Z		
	to	2024-10-01Z		
perseus:assurance	dataSource	https://registry.core.sandbox.trust.ib1.org/scheme/perseus/assurance/data-source/SmartMeter		
	missingData	https://registry.core.sandbox.trust.ib1.org/scheme/perseus/assurance/missing-data/Complete		
	processing	https://registry.core.sandbox.trust.ib1.org/scheme/perseus/assurance/processing/SmartDCCOtherUser		
_signature	signed			
		member	https://directory.core.sandbox.trust.ib1.org/member/2876152	
		name	Meter Data Readings Corp	
		application	https://directory.core.sandbox.trust.ib1.org/scheme/perseus/application/38936455	
		roles	https://registry.core.sandbox.trust.ib1.org/scheme/perseus/role/energy-data-provider	
	includedBy	member	https://directory.core.sandbox.trust.ib1.org/member/81524	

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		name	Carbon Accounting R Us
		application	https://directory.core.sandbox.trust.ib1.org/scheme/perseus/application/26241
		roles	https://registry.core.sandbox.trust.ib1.org/scheme/perseus/role/carbon-accounting-provider

transfer

id	3trHWViF8LqB6jRju6GO		
timestamp	2024-12-03T16:50:28Z		
type	transfer		
scheme	https://registry.core.sandbox.trust.ib1.org/scheme/perseus		
of	y9Hug_opXLaH8i4tRECq		
to	https://directory.core.sandbox.trust.ib1.org/member/81524		
standard	https://registry.core.sandbox.trust.ib1.org/scheme/perseus/standard/energy-consumption-data/2024-12-05		
licence	https://registry.core.sandbox.trust.ib1.org/scheme/perseus/licence/energy-consumption-data/2024-12-05		
service	https://api.meterdatareadingscorp.example.com/meter-readings/0		
path	/datasources/asjdhgasi23123/import		
parameters	measure	import	
	from	2023-09-01Z	
	to	2024-09-01Z	
permissions	oGwKcZOoff3EFFjYXarl		

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transaction	C25D0B85-B7C4-4543-B058-7DA57B8D9A24		
_signature	signed	member	https://directory.core.sandbox.trust.ib1.org/member/2876152
		name	Meter Data Readings Corp
		application	https://directory.core.sandbox.trust.ib1.org/scheme/perseus/application/38936455
		roles	https://registry.core.sandbox.trust.ib1.org/scheme/perseus/role/energy-data-provider
	includedBy	member	https://directory.core.sandbox.trust.ib1.org/member/81524
		name	Carbon Accounting R Us
		application	https://directory.core.sandbox.trust.ib1.org/scheme/perseus/application/26241
		roles	https://registry.core.sandbox.trust.ib1.org/scheme/perseus/role/carbon-accounting-provider

receipt

id	37HUpv6vf9OzxoZEOjMx
timestamp	2024-12-03T17:14:28Z
type	receipt
transfer	3trHWViF8LqB6jRju6GO
_signature	

	signed		
		member	https://directory.core.sandbox.trust.ib1.org/member/524
		name	Carbon Accounting R Us
		application	https://directory.core.sandbox.trust.ib1.org/scheme/perseus/application/26241
		roles	https://registry.core.sandbox.trust.ib1.org/scheme/perseus/role/carbon-accounting-provider

permission

id	xdUL3zsZnYpfb_Utysui		
timestamp	2024-10-21T09:09:10Z		
type	permission		
scheme	https://registry.core.sandbox.trust.ib1.org/scheme/perseus		
account	XX8237XXXX232		
allows	licences	https://registry.core.sandbox.trust.ib1.org/scheme/perseus/emissions-report/2024-12-05	
	processes	https://registry.core.sandbox.trust.ib1.org/scheme/perseus/emissions-calculations/2024-12-05	
expires	2025-10-21T09:09:10Z		
_signature	signed		
		member	https://directory.core.sandbox.trust.ib1.org/member/524
		name	Carbon Accounting R Us

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		applicat ion	https://directory.core.sandbox.trust.ib1.org/scheme/seus/application/26241
		roles	https://registry.core.sandbox.trust.ib1.org/scheme/seus/role/carbon-accounting-provider

origin

id	pxE4adGymllhasX9ll-W		
timestamp	2024-12-03T17:14:28Z		
type	origin		
scheme	https://registry.core.sandbox.trust.ib1.org/scheme/perseus		
sourceType	https://registry.core.sandbox.trust.ib1.org/scheme/perseus/source-type/GridCarbonIntensity		
origin	https://api.carbonintensity.org.uk/		
originLicen ce	https://creativecommons.org/licenses/by/4.0/		
external	true		
perseus:sch eme			
	meteringPeriod	from	2023-09-01Z
		to	2024-09-01Z
	postcode	XX1	
perseus:ass urance			
	missing Data	https://registry.core.sandbox.trust.ib1.org/scheme/perseus/assurance/missing-data/Complete	

_signature	signed	member	https://directory.core.sandbox.trust.ib1.org/member/81524
		name	Carbon Accounting R Us
		application	https://directory.core.sandbox.trust.ib1.org/scheme/perseus/application/26241
		roles	https://registry.core.sandbox.trust.ib1.org/scheme/perseus/role/carbon-accounting-provider

origin

id	pxE4adGymllhasX9ll-W		
timestamp	2024-12-03T17:14:28Z		
type	origin		
scheme	https://registry.core.sandbox.trust.ib1.org/scheme/perseus		
sourceType	https://registry.core.sandbox.trust.ib1.org/scheme/perseus/source-type/GasGreenhouseGasFactor		
origin	https://www.gov.uk/government/publications/greenhouse-gas-reporting-conversion-factors-2023		
originLicence	https://www.nationalarchives.gov.uk/doc/open-government-licence/version/3/		
external	true		
perseus:scheme	meteringPeriod	from	2023-09-01Z
		to	2024-03-01Z

	postcode	XX1
perseus:assurance		
	missing Data	https://registry.core.sandbox.trust.ib1.org/scheme/perseus/assurance/missing-data/Complete
_signature		
	signed	
	member	https://directory.core.sandbox.trust.ib1.org/member/81524
	name	Carbon Accounting R Us
	application	https://directory.core.sandbox.trust.ib1.org/scheme/perseus/application/26241
	roles	https://registry.core.sandbox.trust.ib1.org/scheme/perseus/role/carbon-accounting-provider

origin

id	pxE4adGymIIhasX9II-W
timestamp	2024-12-03T17:14:28Z
type	origin
scheme	https://registry.core.sandbox.trust.ib1.org/scheme/perseus
sourceType	https://registry.core.sandbox.trust.ib1.org/scheme/perseus/source-type/GasGreenhouseGasFactor
origin	https://www.gov.uk/government/publications/greenhouse-gas-reporting-conversion-factors-2023

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originLicence	https://www.nationalarchives.gov.uk/doc/open-government-licence/version/3/		
external	true		
perseus:scheme	meteringPeriod	from	2023-03-01Z
		to	2024-09-01Z
	postcode	XX1	
perseus:assurance	missing Data	https://registry.core.sandbox.trust.ib1.org/scheme/perseus/assurance/missing-data/Complete	
_signature	signed	member	https://directory.core.sandbox.trust.ib1.org/member/81524
		name	Carbon Accounting R Us
		application	https://directory.core.sandbox.trust.ib1.org/scheme/perseus/application/26241
		roles	https://registry.core.sandbox.trust.ib1.org/scheme/perseus/role/carbon-accounting-provider

process

id	-mntYu5ID9wPRJzhLX3Q
timestamp	2024-12-03T17:14:28Z

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type	process		
scheme	https://registry.core.sandbox.trust.ib1.org/scheme/perseus		
inputs	37HUpv6vf9OzxoZEOjMx pxE4adGymllhasX9II-W		
process	https://registry.core.sandbox.trust.ib1.org/scheme/perseus/process/emissions-calculations/2024-12-05		
permissions	xdUL3zsZnYpfb_Utysui		
perseus:assurance	missing Data	https://registry.core.sandbox.trust.ib1.org/scheme/perseus/assurance/missing-data/Substituted	
_signature	signed		
		member	https://directory.core.sandbox.trust.ib1.org/member/81524
		name	Carbon Accounting R Us
		application	https://directory.core.sandbox.trust.ib1.org/scheme/perseus/application/26241
		roles	https://registry.core.sandbox.trust.ib1.org/scheme/perseus/role/carbon-accounting-provider

process

id	-mntYu5ID9wPRJzhLX3Q
timestamp	2024-12-03T17:14:28Z
type	process
scheme	https://registry.core.sandbox.trust.ib1.org/scheme/perseus

inputs	37HUpv6vf9OzxoZEOjMx pxE4adGymllhasX9II-W	
process	https://registry.core.sandbox.trust.ib1.org/scheme/perseus/process/gas-emissions-calculations/2024-12-05	
permissions	xdUL3zsZnYpfb_Utysui	
perseus:assurance	missing Data	https://registry.core.sandbox.trust.ib1.org/scheme/perseus/assurance/missing-data/None
_signature	signed	
	member	https://directory.core.sandbox.trust.ib1.org/member/81524
	name	Carbon Accounting R Us
	application	https://directory.core.sandbox.trust.ib1.org/scheme/perseus/application/26241
	roles	https://registry.core.sandbox.trust.ib1.org/scheme/perseus/role/carbon-accounting-provider

transfer

id	2n0uapP4bQ3hGCZeqW14
timestamp	2024-12-03T17:14:28Z
type	transfer
scheme	https://registry.core.sandbox.trust.ib1.org/scheme/perseus
of	-mntYu5ID9wPRJzhLX3Q
to	https://directory.core.sandbox.trust.ib1.org/member/71212388
standard	https://registry.core.sandbox.trust.ib1.org/scheme/perseus/standard/emissions-report/2024-12-05

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licence	https://registry.core.sandbox.trust.ib1.org/scheme/perseus/licence/emissions-report/2024-12-05	
service	https://api.carbonaccountingrus.example.com/emission-report/23	
path	/emissions	
parameters	from	2023-09Z
	to	2024-09Z
permissions	xdUL3zsZnYpfb_Utysui	
transaction	C5813265-515B-48DC-925F-832FA418F7E2	
_signature	signed	
	member	https://directory.core.sandbox.trust.ib1.org/member/1524
	name	Carbon Accounting R Us
	application	https://directory.core.sandbox.trust.ib1.org/scheme/perseus/application/26241
	roles	https://registry.core.sandbox.trust.ib1.org/scheme/perseus/role/carbon-accounting-provider

Decoded record

```
[
  {
    "id": "oGwKcZ0off3EFFjYXarI",
    "timestamp": "2024-09-20T12:16:11Z",
    "type": "permission",
    "scheme": "https://registry.core.sandbox.trust.ib1.org/scheme/perseus",
    "account": "abc12734634",
    "allows": {
      "licences": [
        "https://smartenergycodecompany.co.uk/documents/sec/consolidated-sec/",
        "https://registry.core.sandbox.trust.ib1.org/scheme/perseus/licence/energy-consumption-data/2024-12-05"
      ]
    }
  }
]
```

```
]
},
"expires": "2025-09-20T12:16:11Z",
"_signature": {
  "signed": {
    "member": "https://directory.core.sandbox.trust.ib1.org/member/2876152",
    "name": "Meter Data Readings Corp",
    "application": "https://directory.core.sandbox.trust.ib1.org/scheme/perseus/application/38936455",
    "roles": [
      "https://registry.core.sandbox.trust.ib1.org/scheme/perseus/role/energy-data-provider"
    ]
  }
},
"includedBy": [
  {
    "member": "https://directory.core.sandbox.trust.ib1.org/member/81524",
    "name": "Carbon Accounting R Us",
    "application": "https://directory.core.sandbox.trust.ib1.org/scheme/perseus/application/26241",
    "roles": [
      "https://registry.core.sandbox.trust.ib1.org/scheme/perseus/role/carbon-accounting-provider"
    ]
  }
]
}
},
{
  "id": "y9Hug_opXLaH8i4tRECq",
  "timestamp": "2024-12-03T16:50:28Z",
  "type": "origin",
  "scheme": "https://registry.core.sandbox.trust.ib1.org/scheme/perseus",
  "sourceType": "https://registry.core.sandbox.trust.ib1.org/scheme/perseus/source-type/Meter",
  "origin": "https://www.smartdcc.co.uk/",
  "originLicence": "https://smartenergycodecompany.co.uk/documents/sec/consolidated-sec/",
  "external": true,
  "permissions": [
    "oGwKcZOoff3EFFjYXarI"
  ],
  "perseus:scheme": {
    "meteringPeriod": {
      "from": "2023-09-01Z",
      "to": "2024-09-01Z"
    }
  },
  "perseus:assurance": {
    "dataSource": "https://registry.core.sandbox.trust.ib1.org/scheme/perseus/assurance/data-source/SmartMeter",
    "missingData": "https://registry.core.sandbox.trust.ib1.org/scheme/perseus/assurance/missing-data/Complete",
    "processing": "https://registry.core.sandbox.trust.ib1.org/scheme/perseus/assurance/processing/SmartDCCOtherUser"
  },
  "_signature": {
    "signed": {
      "member": "https://directory.core.sandbox.trust.ib1.org/member/2876152",
      "name": "Meter Data Readings Corp",
      "application": "https://directory.core.sandbox.trust.ib1.org/scheme/perseus/application/38936455",
      "roles": [
        "https://registry.core.sandbox.trust.ib1.org/scheme/perseus/role/energy-data-provider"
      ]
    }
  },
  "includedBy": [
    {
      "member": "https://directory.core.sandbox.trust.ib1.org/member/81524",
      "name": "Carbon Accounting R Us",
      "application": "https://directory.core.sandbox.trust.ib1.org/scheme/perseus/application/26241",
      "roles": [
        "https://registry.core.sandbox.trust.ib1.org/scheme/perseus/role/carbon-accounting-provider"
      ]
    }
  ]
}
},
{
  "id": "3trHwViF8LqB6jRju6G0",
  "timestamp": "2024-12-03T16:50:28Z",
  "type": "transfer",
  "scheme": "https://registry.core.sandbox.trust.ib1.org/scheme/perseus",
  "of": "y9Hug_opXLaH8i4tRECq",
  "to": "https://directory.core.sandbox.trust.ib1.org/member/81524",
```

```
"standard": "https://registry.core.sandbox.trust.ib1.org/scheme/perseus/standard/energy-consumption-data/2024-12-05",
"licence": "https://registry.core.sandbox.trust.ib1.org/scheme/perseus/licence/energy-consumption-data/2024-12-05",
"service": "https://api.meterdatareadingscorp.example.com/meter-readings/0",
"path": "/readings",
"parameters": {
  "measure": "import",
  "from": "2023-09-01Z",
  "to": "2024-09-01Z"
},
"permissions": [
  "oGwKcZOoff3EFFjYXarI"
],
"transaction": "C25D0B85-B7C4-4543-B058-7DA57B8D9A24",
"_signature": {
  "signed": {
    "member": "https://directory.core.sandbox.trust.ib1.org/member/2876152",
    "name": "Meter Data Readings Corp",
    "application": "https://directory.core.sandbox.trust.ib1.org/scheme/perseus/application/38936455",
    "roles": [
      "https://registry.core.sandbox.trust.ib1.org/scheme/perseus/role/energy-data-provider"
    ]
  }
},
"includedBy": [
  {
    "member": "https://directory.core.sandbox.trust.ib1.org/member/81524",
    "name": "Carbon Accounting R Us",
    "application": "https://directory.core.sandbox.trust.ib1.org/scheme/perseus/application/26241",
    "roles": [
      "https://registry.core.sandbox.trust.ib1.org/scheme/perseus/role/carbon-accounting-provider"
    ]
  }
]
},
{
  "id": "37HUvpv6vf90zxoZE0jMx",
  "timestamp": "2024-12-03T17:14:28Z",
  "type": "receipt",
  "transfer": "3trHWViF8LqB6jRju6G0",
  "_signature": {
    "signed": {
      "member": "https://directory.core.sandbox.trust.ib1.org/member/81524",
      "name": "Carbon Accounting R Us",
      "application": "https://directory.core.sandbox.trust.ib1.org/scheme/perseus/application/26241",
      "roles": [
        "https://registry.core.sandbox.trust.ib1.org/scheme/perseus/role/carbon-accounting-provider"
      ]
    }
  },
  "includedBy": []
}
},
{
  "id": "xdUL3zsZnYpfb_Utysui",
  "timestamp": "2024-10-21T09:09:10Z",
  "type": "permission",
  "scheme": "https://registry.core.sandbox.trust.ib1.org/scheme/perseus",
  "account": "XX8237XXX232",
  "allows": {
    "licences": [
      "https://registry.core.sandbox.trust.ib1.org/scheme/perseus/licence/emissions-report/2024-12-05"
    ],
    "processes": [
      "https://registry.core.sandbox.trust.ib1.org/scheme/perseus/process/emissions-calculations/2024-12-05"
    ]
  }
},
"expires": "2025-10-21T09:09:10Z",
"_signature": {
  "signed": {
    "member": "https://directory.core.sandbox.trust.ib1.org/member/81524",
    "name": "Carbon Accounting R Us",
    "application": "https://directory.core.sandbox.trust.ib1.org/scheme/perseus/application/26241",
    "roles": [
      "https://registry.core.sandbox.trust.ib1.org/scheme/perseus/role/carbon-accounting-provider"
    ]
  }
},
}
```

```
    "includedBy": []
  }
},
{
  "id": "pxE4adGym1lhasX9I1-W",
  "timestamp": "2024-12-03T17:14:28Z",
  "type": "origin",
  "scheme": "https://registry.core.sandbox.trust.ib1.org/scheme/perseus",
  "sourceType": "https://registry.core.sandbox.trust.ib1.org/scheme/perseus/source-type/GridCarbonIntensity",
  "origin": "https://api.carbonintensity.org.uk/",
  "originLicence": "https://creativecommons.org/licenses/by/4.0/",
  "external": true,
  "perseus:scheme": {
    "meteringPeriod": {
      "from": "2023-09-01Z",
      "to": "2024-09-01Z"
    },
  },
  "postcode": "CF99"
},
"perseus:assurance": {
  "missingData": "https://registry.core.sandbox.trust.ib1.org/scheme/perseus/assurance/missing-data/Complete"
},
"_signature": {
  "signed": {
    "member": "https://directory.core.sandbox.trust.ib1.org/member/81524",
    "name": "Carbon Accounting R Us",
    "application": "https://directory.core.sandbox.trust.ib1.org/scheme/perseus/application/26241",
    "roles": [
      "https://registry.core.sandbox.trust.ib1.org/scheme/perseus/role/carbon-accounting-provider"
    ]
  },
  "includedBy": []
}
},
{
  "id": "-mntYu5lD9wPRJzhLX3Q",
  "timestamp": "2024-12-03T17:14:28Z",
  "type": "process",
  "scheme": "https://registry.core.sandbox.trust.ib1.org/scheme/perseus",
  "inputs": [
    "37HUpv6vf90zxoZE0jMx",
    "pxE4adGym1lhasX9I1-W"
  ],
  "process": "https://registry.core.sandbox.trust.ib1.org/scheme/perseus/process/emissions-calculations/2024-12-05",
  "permissions": [
    "xdUL3zsZnYpfb_Utysui"
  ],
  "perseus:assurance": {
    "missingData": "https://registry.core.sandbox.trust.ib1.org/scheme/perseus/assurance/missing-data/Substituted"
  },
  "_signature": {
    "signed": {
      "member": "https://directory.core.sandbox.trust.ib1.org/member/81524",
      "name": "Carbon Accounting R Us",
      "application": "https://directory.core.sandbox.trust.ib1.org/scheme/perseus/application/26241",
      "roles": [
        "https://registry.core.sandbox.trust.ib1.org/scheme/perseus/role/carbon-accounting-provider"
      ]
    },
    "includedBy": []
  }
}
},
{
  "id": "2n0uapP4bQ3hGCZeQW14",
  "timestamp": "2024-12-03T17:14:28Z",
  "type": "transfer",
  "scheme": "https://registry.core.sandbox.trust.ib1.org/scheme/perseus",
  "of": "-mntYu5lD9wPRJzhLX3Q",
  "to": "https://directory.core.sandbox.trust.ib1.org/member/71212388",
  "standard": "https://registry.core.sandbox.trust.ib1.org/scheme/perseus/standard/emissions-report/2024-12-05",
  "licence": "https://registry.core.sandbox.trust.ib1.org/scheme/perseus/licence/emissions-report/2024-12-05",
  "service": "https://api.carbonaccountingrus.example.com/emission-report/23",
  "path": "/emissions",
  "parameters": {
    "from": "2023-09Z",
  }
}
```

