

# Carbon Service - Query Carbon Emission Reports

Reference

Service: Carbon optimization

API Version: 2025-04-01

API for Carbon Emissions Reports

HTTP

POST <https://management.azure.com/providers/Microsoft.Carbon/carbonEmissionReports?api-version=2025-04-01>

## URI Parameters

[Expand table](#)

Name	In	Required	Type	Description
api-version	query	True	string minLength: 1	The API version to use for this operation.

## Request Body

The request body can be one of the following:

[Expand table](#)

Name	Description
ItemDetailsQueryFilter	Query Parameters for ItemDetailsReport
MonthlySummaryReportQueryFilter	Query filter parameter to configure MonthlySummaryReport queries.
OverallSummaryReportQueryFilter	Query filter parameter to configure OverallSummaryReport queries.
TopItemsMonthlySummaryReportQueryFilter	Query filter parameter to configure TopItemsMonthlySummaryReport queries.
TopItemsSummaryReportQueryFilter	Query filter parameter to configure TopItemsSummaryReport queries.

### ItemDetailsQueryFilter

Query Parameters for ItemDetailsReport

[Expand table](#)

Name	Required	Type	Description
carbonScopeList	True	Emission Scope Enum[]	List of carbon emission scopes. Required. Accepts one or more values from EmissionScopeEnum (e.g., Scope1, Scope2, Scope3) in list form. The output will include the total emissions for the specified scopes.
categoryType	True	Category TypeEnum	Specifies the category type for detailed emissions data, such as Resource, ResourceGroup, ResourceType, Location, or Subscription. See supported types in CategoryTypeEnum.
dateRange	True	DateRange	The start and end dates for carbon emissions data. Required. For ItemDetailsReport and TopItemsSummaryReport, only one month of data is supported at a time, so start and end dates should be equal within DateRange (e.g., start: 2024-06-01 and end: 2024-06-01).
orderBy	True	Order ByColumn Enum	The column name to order the results by. See supported values in OrderByColumnEnum.
pageSize	True	integer (int32) minimum: 1 maximum: 5000	Number of items to return in one request, max value is 5000.

reportType	True	string: ItemDetails Report	The ReportType requested for carbon emissions data. Required. Specifies how data is aggregated and displayed in the output, as explained in the ReportTypeEnum.
sortDirection	True	Sort Direction Enum	Direction for sorting results. See supported values in SortDirectionEnum.
subscriptionList	True	string[]	List of subscription IDs for which carbon emissions data is requested. Required. Each subscription ID should be in lowercase format. The max length of list is 100.
locationList		string[]	List of locations(Azure Region Display Name) for carbon emissions data, with each location specified in lowercase (e.g., 'east us'). Optional. You can use the command 'az account list-regions -o table' to find Azure Region Display Names.
resourceGroupUrlList		string[]	List of resource group URLs for carbon emissions data. Optional. Each URL must follow the format '/subscriptions/{subscriptionId}/resourcegroups/{resourceGroup}', and should be in all lowercase.
resourceTypeList		string[]	List of resource types for carbon emissions data. Optional. Each resource type should be specified in lowercase, following the format 'microsoft.{service}/{resourceType}', e.g., 'microsoft.storage/storageaccounts'.
skipToken		string	Pagination token for fetching the next page of data. This token is nullable and will be returned in the previous response if additional data pages are available.

## MonthlySummaryReportQueryFilter

Query filter parameter to configure MonthlySummaryReport queries.

[Expand table](#)

Name	Required	Type	Description
carbonScopeList	True	Emission Scope Enum[]	List of carbon emission scopes. Required. Accepts one or more values from EmissionScopeEnum (e.g., Scope1, Scope2, Scope3) in list form. The output will include the total emissions for the specified scopes.
dateRange	True	DateRange	The start and end dates for carbon emissions data. Required. For ItemDetailsReport and TopItemsSummaryReport, only one month of data is supported at a time, so start and end dates should be equal within DateRange (e.g., start: 2024-06-01 and end: 2024-06-01).
reportType	True	string: Monthly Summary Report	The ReportType requested for carbon emissions data. Required. Specifies how data is aggregated and displayed in the output, as explained in the ReportTypeEnum.
subscriptionList	True	string[]	List of subscription IDs for which carbon emissions data is requested. Required. Each subscription ID should be in lowercase format. The max length of list is 100.
locationList		string[]	List of locations(Azure Region Display Name) for carbon emissions data, with each location specified in lowercase (e.g., 'east us'). Optional. You can use the command 'az account list-regions -o table' to find Azure Region Display Names.
resourceGroupUrlList		string[]	List of resource group URLs for carbon emissions data. Optional. Each URL must follow the format '/subscriptions/{subscriptionId}/resourcegroups/{resourceGroup}', and should be in all lowercase.
resourceTypeList		string[]	List of resource types for carbon emissions data. Optional. Each resource type should be specified in lowercase, following the format 'microsoft.{service}/{resourceType}', e.g., 'microsoft.storage/storageaccounts'.

## OverallSummaryReportQueryFilter

Query filter parameter to configure OverallSummaryReport queries.

[Expand table](#)

Name	Required	Type	Description
carbonScopeList	True	Emission Scope Enum[]	List of carbon emission scopes. Required. Accepts one or more values from EmissionScopeEnum (e.g., Scope1, Scope2, Scope3) in list form. The output will include the total emissions for the specified scopes.

dateRange	True	DateRange	The start and end dates for carbon emissions data. Required. For ItemDetailsReport and TopItemsSummaryReport, only one month of data is supported at a time, so start and end dates should be equal within DateRange (e.g., start: 2024-06-01 and end: 2024-06-01).
reportType	True	string: Overall Summary Report	The ReportType requested for carbon emissions data. Required. Specifies how data is aggregated and displayed in the output, as explained in the ReportTypeEnum.
subscriptionList	True	string[]	List of subscription IDs for which carbon emissions data is requested. Required. Each subscription ID should be in lowercase format. The max length of list is 100.
locationList		string[]	List of locations(Azure Region Display Name) for carbon emissions data, with each location specified in lowercase (e.g., 'east us'). Optional. You can use the command 'az account list-regions -o table' to find Azure Region Display Names.
resourceGroupUrlList		string[]	List of resource group URLs for carbon emissions data. Optional. Each URL must follow the format '/subscriptions/{subscriptionId}/resourcegroups/{resourceGroup}', and should be in all lowercase.
resourceTypeList		string[]	List of resource types for carbon emissions data. Optional. Each resource type should be specified in lowercase, following the format 'microsoft.{service}/{resourceType}', e.g., 'microsoft.storage/storageaccounts'.

## TopItemsMonthlySummaryReportQueryFilter

Query filter parameter to configure TopItemsMonthlySummaryReport queries.

[Expand table](#)

Name	Required	Type	Description
carbonScopeList	True	EmissionScopeEnum[]	List of carbon emission scopes. Required. Accepts one or more values from EmissionScopeEnum (e.g., Scope1, Scope2, Scope3) in list form. The output will include the total emissions for the specified scopes.
categoryType	True	CategoryTypeEnum	Specifies the category type to retrieve top-emitting items, aggregated by month. See supported types in CategoryTypeEnum.
dateRange	True	DateRange	The start and end dates for carbon emissions data. Required. For ItemDetailsReport and TopItemsSummaryReport, only one month of data is supported at a time, so start and end dates should be equal within DateRange (e.g., start: 2024-06-01 and end: 2024-06-01).
reportType	True	string: TopItems Monthly Summary Report	The ReportType requested for carbon emissions data. Required. Specifies how data is aggregated and displayed in the output, as explained in the ReportTypeEnum.
subscriptionList	True	string[]	List of subscription IDs for which carbon emissions data is requested. Required. Each subscription ID should be in lowercase format. The max length of list is 100.
topItems	True	integer (int32) minimum: 1 maximum: 10	The number of top items to return, based on emissions. Must be between 1 and 10.
locationList		string[]	List of locations(Azure Region Display Name) for carbon emissions data, with each location specified in lowercase (e.g., 'east us'). Optional. You can use the command 'az account list-regions -o table' to find Azure Region Display Names.
resourceGroupUrlList		string[]	List of resource group URLs for carbon emissions data. Optional. Each URL must follow the format '/subscriptions/{subscriptionId}/resourcegroups/{resourceGroup}', and should be in all lowercase.
resourceTypeList		string[]	List of resource types for carbon emissions data. Optional. Each resource type should be specified in lowercase, following the format 'microsoft.{service}/{resourceType}', e.g., 'microsoft.storage/storageaccounts'.

## TopItemsSummaryReportQueryFilter

Query filter parameter to configure TopItemsSummaryReport queries.

[Expand table](#)

Name	Required	Type	Description
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carbonScopeList	True	<a href="#">EmissionScopeEnum[]</a>	List of carbon emission scopes. Required. Accepts one or more values from EmissionScopeEnum (e.g., Scope1, Scope2, Scope3) in list form. The output will include the total emissions for the specified scopes.
categoryType	True	<a href="#">CategoryTypeEnum</a>	Specifies the category type for which to retrieve top-emitting items. See supported values defined in CategoryTypeEnum.
dateRange	True	<a href="#">DateRange</a>	The start and end dates for carbon emissions data. Required. For ItemDetailsReport and TopItemsSummaryReport, only one month of data is supported at a time, so start and end dates should be equal within DateRange (e.g., start: 2024-06-01 and end: 2024-06-01).
reportType	True	string:  TopItems Summary Report	The ReportType requested for carbon emissions data. Required. Specifies how data is aggregated and displayed in the output, as explained in the ReportTypeEnum.
subscriptionList	True	string[]	List of subscription IDs for which carbon emissions data is requested. Required. Each subscription ID should be in lowercase format. The max length of list is 100.
topItems	True	integer (int32) minimum: 1 maximum: 10	The number of top items to return, based on emissions. This value must be between 1 and 10.
locationList		string[]	List of locations(Azure Region Display Name) for carbon emissions data, with each location specified in lowercase (e.g., 'east us'). Optional. You can use the command 'az account list-regions -o table' to find Azure Region Display Names.
resourceGroupUrlList		string[]	List of resource group URLs for carbon emissions data. Optional. Each URL must follow the format '/subscriptions/{subscriptionId}/resourcegroups/{resourceGroup}', and should be in all lowercase.
resourceTypeList		string[]	List of resource types for carbon emissions data. Optional. Each resource type should be specified in lowercase, following the format 'microsoft.{service}/{resourceType}', e.g., 'microsoft.storage/storageaccounts'.

## Responses

[Expand table](#)

Name	Type	Description
200 OK	<a href="#">CarbonEmissionDataListResult</a>	The request has succeeded.
Other Status Codes	<a href="#">ErrorResponse</a>	An unexpected error response.

## Security

### azure\_auth

Azure Active Directory OAuth2 Flow.

Type: oauth2

Flow: implicit

Authorization URL: <https://login.microsoftonline.com/common/oauth2/authorize>

## Scopes

[Expand table](#)

Name	Description
user_impersonation	Impersonate your user account

## Examples

QueryCarbonEmission Location item details Report
QueryCarbonEmission Monthly Summary Report with optional filter - locationList, resourceTypeList, resourceGroupUrlList
QueryCarbonEmission Overall Monthly Summary Report
QueryCarbonEmission Overall Summary Report
QueryCarbonEmission Overall Summary Report with optional filter - locationList, resourceTypeList, resourceGroupUrlList
QueryCarbonEmission resource item details Report
QueryCarbonEmission resource item details Report with pagination token
QueryCarbonEmission ResourceGroup item details Report
QueryCarbonEmission ResourceType item details Report
QueryCarbonEmission Subscriptions item details Report
QueryCarbonEmission Top N Locations monthly Report
QueryCarbonEmission Top N Locations Report
QueryCarbonEmission Top N resource monthly Report
QueryCarbonEmission Top N resource Report
QueryCarbonEmission Top N ResourceGroup monthly Report
QueryCarbonEmission Top N ResourceGroup Report
QueryCarbonEmission Top N ResourceType monthly Report
QueryCarbonEmission Top N ResourceType Report
QueryCarbonEmission Top N Subscriptions monthly Report
QueryCarbonEmission Top N Subscriptions Report

## QueryCarbonEmission Location item details Report

### Sample request

HTTP

HTTP

```
POST https://management.azure.com/providers/Microsoft.Carbon/carbonEmissionReports?api-version=2025-04-01
```

```
{
  "reportType": "ItemDetailsReport",
  "subscriptionList": [
    "00000000-0000-0000-0000-000000000000",
    "00000000-0000-0000-0000-000000000001",
    "00000000-0000-0000-0000-000000000002",
    "00000000-0000-0000-0000-000000000003",
    "00000000-0000-0000-0000-000000000004",
    "00000000-0000-0000-0000-000000000005",
    "00000000-0000-0000-0000-000000000006",
    "00000000-0000-0000-0000-000000000007",
    "00000000-0000-0000-0000-000000000008"
  ],
  "carbonScopeList": [
    "Scope1",
    "Scope3"
  ],
  "dateRange": {
    "start": "2024-05-01",
    "end": "2024-05-01"
  },
  "categoryType": "Location",
  "orderBy": "LatestMonthEmissions",
  "sortDirection": "Desc",
  "pageSize": 100
}
```

}

## Sample response

Status code: 200

JSON

```
{  
  "subscriptionAccessDecisionList": [  
    {  
      "subscriptionId": "00000000-0000-0000-0000-000000000000",  
      "decision": "Allowed"  
    },  
    {  
      "subscriptionId": "00000000-0000-0000-0000-000000000001",  
      "decision": "Allowed"  
    },  
    {  
      "subscriptionId": "00000000-0000-0000-0000-000000000002",  
      "decision": "Allowed"  
    },  
    {  
      "subscriptionId": "00000000-0000-0000-0000-000000000003",  
      "decision": "Allowed"  
    },  
    {  
      "subscriptionId": "00000000-0000-0000-0000-000000000004",  
      "decision": "Allowed"  
    },  
    {  
      "subscriptionId": "00000000-0000-0000-0000-000000000005",  
      "decision": "Allowed"  
    },  
    {  
      "subscriptionId": "00000000-0000-0000-0000-000000000006",  
      "decision": "Denied"  
    },  
    {  
      "subscriptionId": "00000000-0000-0000-0000-000000000007",  
      "decision": "Denied"  
    },  
    {  
      "subscriptionId": "00000000-0000-0000-0000-000000000008",  
      "decision": "Denied",  
      "denialReason": "Carbon Optimization Reader permision required"  
    }  
  "value": [  
    {  
      "dataType": "ItemDetailsData",  
      "latestMonthEmissions": 0.1,  
      "previousMonthEmissions": 0.05,  
      "monthOverMonthEmissionsChangeRatio": 1,  
      "monthlyEmissionsChangeValue": 0.05,  
      "itemName": "east us",  
      "categoryType": "Location"  
    },  
    {  
      "dataType": "ItemDetailsData",  
      "latestMonthEmissions": 0.1,  
      "previousMonthEmissions": 0.05,  
      "monthOverMonthEmissionsChangeRatio": 1,  
      "monthlyEmissionsChangeValue": 0.05,  
      "itemName": "west us",  
      "categoryType": "Location"  
    },  
    {  
      "dataType": "ItemDetailsData",  
      "latestMonthEmissions": 0.1,  
      "previousMonthEmissions": 0.05,  
      "monthOverMonthEmissionsChangeRatio": 1,  
      "monthlyEmissionsChangeValue": 0.05,  
      "itemName": "west us 2",  
      "categoryType": "Location"  
    },  
    {  
      "dataType": "ItemDetailsData",  
      "latestMonthEmissions": 0.1,
```

```

    "previousMonthEmissions": 0.05,
    "monthOverMonthEmissionsChangeRatio": 1,
    "monthlyEmissionsChangeValue": 0.05,
    "itemName": "west us 3",
    "categoryType": "Location"
},
{
    "dataType": "ItemDetailsData",
    "latestMonthEmissions": 0.1,
    "previousMonthEmissions": 0.05,
    "monthOverMonthEmissionsChangeRatio": 1,
    "monthlyEmissionsChangeValue": 0.05,
    "itemName": "east us 2",
    "categoryType": "Location"
}
]
}

```

## QueryCarbonEmission Monthly Summary Report with optional filter - locationList, resourceTypeList, resourceGroupUrlList

### Sample request

HTTP

HTTP

POST https://management.azure.com/providers/Microsoft.Carbon/carbonEmissionReports?api-version=2025-04-01

```
{
    "reportType": "MonthlySummaryReport",
    "subscriptionList": [
        "00000000-0000-0000-0000-000000000000"
    ],
    "carbonScopeList": [
        "Scope1",
        "Scope3"
    ],
    "dateRange": {
        "start": "2024-03-01",
        "end": "2024-05-01"
    },
    "locationList": [
        "east us",
        "west us"
    ],
    "resourceTypeList": [
        "microsoft.storage/storageaccounts",
        "microsoft.databricks/workspaces"
    ],
    "resourceGroupUrlList": [
        "/subscriptions/00000000-0000-0000-000000000000/resourcegroups/rg-name"
    ]
}
```

### Sample response

Status code: 200

JSON

```
{
    "subscriptionAccessDecisionList": [
        {
            "subscriptionId": "00000000-0000-0000-000000000000",
            "decision": "Allowed"
        }
    ],
    "value": [
        {
            "dataType": "MonthlySummaryData",
            "latestMonthEmissions": 0.1,
            "previousMonthEmissions": 0.05,
            "monthOverMonthEmissionsChangeRatio": 1,
            "monthlyEmissionsChangeValue": 0.05,
            "itemName": "east us 2",
            "categoryType": "Location"
        }
    ]
}
```

```

    "monthOverMonthEmissionsChangeRatio": 1,
    "monthlyEmissionsChangeValue": 0.05,
    "date": "2024-05-01",
    "carbonIntensity": 22
},
{
    "dataType": "MonthlySummaryData",
    "latestMonthEmissions": 0.1,
    "previousMonthEmissions": 0.05,
    "monthOverMonthEmissionsChangeRatio": 1,
    "monthlyEmissionsChangeValue": 0.05,
    "date": "2024-04-01",
    "carbonIntensity": 22
},
{
    "dataType": "MonthlySummaryData",
    "latestMonthEmissions": 0.1,
    "previousMonthEmissions": 0.05,
    "monthOverMonthEmissionsChangeRatio": 1,
    "monthlyEmissionsChangeValue": 0.05,
    "date": "2024-03-01",
    "carbonIntensity": 22
}
]
}

```

## QueryCarbonEmission Overall Monthly Summary Report

### Sample request

HTTP

HTTP

```
POST https://management.azure.com/providers/Microsoft.Carbon/carbonEmissionReports?api-version=2025-04-01
```

```
{
    "reportType": "MonthlySummaryReport",
    "subscriptionList": [
        "00000000-0000-0000-0000-000000000000"
    ],
    "carbonScopeList": [
        "Scope1",
        "Scope3"
    ],
    "dateRange": {
        "start": "2024-03-01",
        "end": "2024-05-01"
    }
}
```

### Sample response

Status code: 200

JSON

```
{
    "subscriptionAccessDecisionList": [
        {
            "subscriptionId": "00000000-0000-0000-0000-000000000000",
            "decision": "Allowed"
        }
    ],
    "value": [
        {
            "dataType": "MonthlySummaryData",
            "latestMonthEmissions": 0.1,
            "previousMonthEmissions": 0.05,
            "monthOverMonthEmissionsChangeRatio": 1,
            "monthlyEmissionsChangeValue": 0.05,
            "date": "2024-05-01",
            "carbonIntensity": 22
        },
        {
            "dataType": "MonthlySummaryData",
            "latestMonthEmissions": 0.1,
            "previousMonthEmissions": 0.05,
            "monthOverMonthEmissionsChangeRatio": 1,
            "monthlyEmissionsChangeValue": 0.05,
            "date": "2024-04-01",
            "carbonIntensity": 22
        },
        {
            "dataType": "MonthlySummaryData",
            "latestMonthEmissions": 0.1,
            "previousMonthEmissions": 0.05,
            "monthOverMonthEmissionsChangeRatio": 1,
            "monthlyEmissionsChangeValue": 0.05,
            "date": "2024-03-01",
            "carbonIntensity": 22
        }
    ]
}
```

```
{  
    "dataType": "MonthlySummaryData",  
    "latestMonthEmissions": 0.1,  
    "previousMonthEmissions": 0.05,  
    "monthOverMonthEmissionsChangeRatio": 1,  
    "monthlyEmissionsChangeValue": 0.05,  
    "date": "2024-04-01",  
    "carbonIntensity": 22  
},  
{  
    "dataType": "MonthlySummaryData",  
    "latestMonthEmissions": 0.1,  
    "previousMonthEmissions": 0.05,  
    "monthOverMonthEmissionsChangeRatio": 1,  
    "monthlyEmissionsChangeValue": 0.05,  
    "date": "2024-03-01",  
    "carbonIntensity": 22  
}  
]  
}
```

## QueryCarbonEmission Overall Summary Report

### Sample request

HTTP

HTTP

```
POST https://management.azure.com/providers/Microsoft.Carbon/carbonEmissionReports?api-version=2025-04-01
```

```
{  
    "reportType": "OverallSummaryReport",  
    "subscriptionList": [  
        "00000000-0000-0000-0000-000000000000"  
    ],  
    "carbonScopeList": [  
        "Scope1",  
        "Scope3"  
    ],  
    "dateRange": {  
        "start": "2023-06-01",  
        "end": "2023-06-01"  
    }  
}
```

### Sample response

Status code: 200

JSON

```
{  
    "subscriptionAccessDecisionList": [  
        {  
            "subscriptionId": "00000000-0000-0000-0000-000000000000",  
            "decision": "Allowed"  
        }  
    ],  
    "value": [  
        {  
            "dataType": "OverallSummaryData",  
            "latestMonthEmissions": 0.1,  
            "previousMonthEmissions": 0.05,  
            "monthOverMonthEmissionsChangeRatio": 1,  
            "monthlyEmissionsChangeValue": 0.05  
        }  
    ]  
}
```

## QueryCarbonEmission Overall Summary Report with optional filter - locationList, resourceTypeList, resourceGroupUrlList

### Sample request

HTTP

HTTP

```
POST https://management.azure.com/providers/Microsoft.Carbon/carbonEmissionReports?api-version=2025-04-01
```

```
{
  "reportType": "OverallSummaryReport",
  "subscriptionList": [
    "00000000-0000-0000-0000-000000000000"
  ],
  "carbonScopeList": [
    "Scope1",
    "Scope3"
  ],
  "dateRange": {
    "start": "2023-06-01",
    "end": "2023-06-01"
  },
  "locationList": [
    "east us",
    "west us"
  ],
  "resourceTypeList": [
    "microsoft.storage/storageaccounts",
    "microsoft.databricks/workspaces"
  ],
  "resourceGroupUrlList": [
    "/subscriptions/00000000-0000-0000-0000-000000000000/resourcegroups/rg-name"
  ]
}
```

### Sample response

Status code: 200

JSON

```
{
  "subscriptionAccessDecisionList": [
    {
      "subscriptionId": "00000000-0000-0000-0000-000000000000",
      "decision": "Allowed"
    }
  ],
  "value": [
    {
      "dataType": "OverallSummaryData",
      "latestMonthEmissions": 0.1,
      "previousMonthEmissions": 0.05,
      "monthOverMonthEmissionsChangeRatio": 1,
      "monthlyEmissionsChangeValue": 0.05
    }
  ]
}
```

## QueryCarbonEmission resource item details Report

### Sample request

HTTP

HTTP

POST https://management.azure.com/providers/Microsoft.Carbon/carbonEmissionReports?api-version=2025-04-01

```
{  
    "reportType": "ItemDetailsReport",  
    "subscriptionList": [  
        "00000000-0000-0000-0000-000000000000",  
        "00000000-0000-0000-0000-000000000001",  
        "00000000-0000-0000-0000-000000000002",  
        "00000000-0000-0000-0000-000000000003",  
        "00000000-0000-0000-0000-000000000004",  
        "00000000-0000-0000-0000-000000000005",  
        "00000000-0000-0000-0000-000000000006",  
        "00000000-0000-0000-0000-000000000007",  
        "00000000-0000-0000-0000-000000000008"  
    ],  
    "carbonScopeList": [  
        "Scope1",  
        "Scope3"  
    ],  
    "dateRange": {  
        "start": "2024-05-01",  
        "end": "2024-05-01"  
    },  
    "categoryType": "Resource",  
    "orderBy": "LatestMonthEmissions",  
    "sortDirection": "Desc",  
    "pageSize": 100  
}
```

## Sample response

Status code: 200

JSON

```
{  
    "subscriptionAccessDecisionList": [  
        {  
            "subscriptionId": "00000000-0000-0000-0000-000000000000",  
            "decision": "Allowed"  
        },  
        {  
            "subscriptionId": "00000000-0000-0000-0000-000000000001",  
            "decision": "Allowed"  
        },  
        {  
            "subscriptionId": "00000000-0000-0000-0000-000000000002",  
            "decision": "Allowed"  
        },  
        {  
            "subscriptionId": "00000000-0000-0000-0000-000000000003",  
            "decision": "Allowed"  
        },  
        {  
            "subscriptionId": "00000000-0000-0000-0000-000000000004",  
            "decision": "Allowed"  
        },  
        {  
            "subscriptionId": "00000000-0000-0000-0000-000000000005",  
            "decision": "Denied"  
        },  
        {  
            "subscriptionId": "00000000-0000-0000-0000-000000000007",  
            "decision": "Denied"  
        },  
        {  
            "subscriptionId": "00000000-0000-0000-0000-000000000008",  
            "decision": "Denied",  
            "denialReason": "Carbon Optimization Reader permission required"  
        }  
    ],  
    "value": [  
        {  
            "dataType": "ResourceItemDetailsData",  
            "value": {  
                "resourceId": "00000000-0000-0000-0000-000000000000",  
                "resourceName": "Resource 1",  
                "emissions": 100,  
                "lastMonthEmissions": 100,  
                "category": "Category A",  
                "scope": "Scope 1",  
                "dateRange": "2024-05-01/2024-05-01",  
                "sortOrder": 1  
            }  
        },  
        {  
            "dataType": "ResourceItemDetailsData",  
            "value": {  
                "resourceId": "00000000-0000-0000-0000-000000000001",  
                "resourceName": "Resource 2",  
                "emissions": 200,  
                "lastMonthEmissions": 200,  
                "category": "Category A",  
                "scope": "Scope 1",  
                "dateRange": "2024-05-01/2024-05-01",  
                "sortOrder": 2  
            }  
        },  
        {  
            "dataType": "ResourceItemDetailsData",  
            "value": {  
                "resourceId": "00000000-0000-0000-0000-000000000002",  
                "resourceName": "Resource 3",  
                "emissions": 300,  
                "lastMonthEmissions": 300,  
                "category": "Category A",  
                "scope": "Scope 1",  
                "dateRange": "2024-05-01/2024-05-01",  
                "sortOrder": 3  
            }  
        },  
        {  
            "dataType": "ResourceItemDetailsData",  
            "value": {  
                "resourceId": "00000000-0000-0000-0000-000000000003",  
                "resourceName": "Resource 4",  
                "emissions": 400,  
                "lastMonthEmissions": 400,  
                "category": "Category A",  
                "scope": "Scope 1",  
                "dateRange": "2024-05-01/2024-05-01",  
                "sortOrder": 4  
            }  
        },  
        {  
            "dataType": "ResourceItemDetailsData",  
            "value": {  
                "resourceId": "00000000-0000-0000-0000-000000000004",  
                "resourceName": "Resource 5",  
                "emissions": 500,  
                "lastMonthEmissions": 500,  
                "category": "Category A",  
                "scope": "Scope 1",  
                "dateRange": "2024-05-01/2024-05-01",  
                "sortOrder": 5  
            }  
        },  
        {  
            "dataType": "ResourceItemDetailsData",  
            "value": {  
                "resourceId": "00000000-0000-0000-0000-000000000005",  
                "resourceName": "Resource 6",  
                "emissions": 600,  
                "lastMonthEmissions": 600,  
                "category": "Category A",  
                "scope": "Scope 1",  
                "dateRange": "2024-05-01/2024-05-01",  
                "sortOrder": 6  
            }  
        },  
        {  
            "dataType": "ResourceItemDetailsData",  
            "value": {  
                "resourceId": "00000000-0000-0000-0000-000000000006",  
                "resourceName": "Resource 7",  
                "emissions": 700,  
                "lastMonthEmissions": 700,  
                "category": "Category A",  
                "scope": "Scope 1",  
                "dateRange": "2024-05-01/2024-05-01",  
                "sortOrder": 7  
            }  
        },  
        {  
            "dataType": "ResourceItemDetailsData",  
            "value": {  
                "resourceId": "00000000-0000-0000-0000-000000000007",  
                "resourceName": "Resource 8",  
                "emissions": 800,  
                "lastMonthEmissions": 800,  
                "category": "Category A",  
                "scope": "Scope 1",  
                "dateRange": "2024-05-01/2024-05-01",  
                "sortOrder": 8  
            }  
        },  
        {  
            "dataType": "ResourceItemDetailsData",  
            "value": {  
                "resourceId": "00000000-0000-0000-0000-000000000008",  
                "resourceName": "Resource 9",  
                "emissions": 900,  
                "lastMonthEmissions": 900,  
                "category": "Category A",  
                "scope": "Scope 1",  
                "dateRange": "2024-05-01/2024-05-01",  
                "sortOrder": 9  
            }  
        }  
    ]  
}
```

```

"latestMonthEmissions": 0.1,
"previousMonthEmissions": 0.05,
"monthOverMonthEmissionsChangeRatio": 1,
"monthlyEmissionsChangeValue": 0.05,
"itemName": "rgName1",
"resourceGroup": "rgGroup",
"resourceId": "/subscriptions/00000000-0000-0000-0000-
0000000000/resourceGroups/rgGroup/providers/microsoft.storage/storageaccounts/rgName1",
"subscriptionId": "00000000-0000-0000-000000000000",
"categoryType": "Resource",
"resourceType": "microsoft.storage/storageaccounts",
"location": "east us"
},
{
  "dataType": "ResourceItemDetailsData",
  "latestMonthEmissions": 0.1,
  "previousMonthEmissions": 0.05,
  "monthOverMonthEmissionsChangeRatio": 1,
  "monthlyEmissionsChangeValue": 0.05,
  "itemName": "rgName2",
  "resourceGroup": "rgGroup",
  "resourceId": "/subscriptions/00000000-0000-0000-0000-
0000000000/resourceGroups/rgGroup/providers/microsoft.storage/storageaccounts/rgName2",
  "subscriptionId": "00000000-0000-0000-000000000000",
  "categoryType": "Resource",
  "resourceType": "microsoft.storage/storageaccounts",
  "location": "east us"
},
{
  "dataType": "ResourceItemDetailsData",
  "latestMonthEmissions": 0.1,
  "previousMonthEmissions": 0.05,
  "monthOverMonthEmissionsChangeRatio": 1,
  "monthlyEmissionsChangeValue": 0.05,
  "itemName": "rgName3",
  "resourceGroup": "rgGroup",
  "resourceId": "/subscriptions/00000000-0000-0000-0000-
0000000000/resourceGroups/rgGroup/providers/microsoft.storage/storageaccounts/rgName3",
  "subscriptionId": "00000000-0000-0000-000000000000",
  "categoryType": "Resource",
  "resourceType": "microsoft.storage/storageaccounts",
  "location": "east us"
},
{
  "dataType": "ResourceItemDetailsData",
  "latestMonthEmissions": 0.1,
  "previousMonthEmissions": 0.05,
  "monthOverMonthEmissionsChangeRatio": 1,
  "monthlyEmissionsChangeValue": 0.05,
  "itemName": "rgName4",
  "resourceGroup": "rgGroup",
  "resourceId": "/subscriptions/00000000-0000-0000-0000-
0000000002/resourceGroups/rgGroup/providers/microsoft.storage/storageaccounts/rgName4",
  "subscriptionId": "00000000-0000-0000-000000000002",
  "categoryType": "Resource",
  "resourceType": "microsoft.storage/storageaccounts",
  "location": "east us"
},
{
  "dataType": "ResourceItemDetailsData",
  "latestMonthEmissions": 0.1,
  "previousMonthEmissions": 0.05,
  "monthOverMonthEmissionsChangeRatio": 1,
  "monthlyEmissionsChangeValue": 0.05,
  "itemName": "rgName5",
  "resourceGroup": "rgGroup",
  "resourceId": "/subscriptions/00000000-0000-0000-0000-
0000000002/resourceGroups/rgGroup/providers/microsoft.storage/storageaccounts/rgName5",
  "subscriptionId": "00000000-0000-0000-000000000002",
  "categoryType": "Resource",
  "resourceType": "microsoft.storage/storageaccounts",
  "location": "east us"
}
],
"skipToken": "dGVzZGZhZGzzNkZg=="
}

```

## QueryCarbonEmission resource item details Report with pagination token

## Sample request

HTTP

HTTP

```
POST https://management.azure.com/providers/Microsoft.Carbon/carbonEmissionReports?api-version=2025-04-01
```

```
{  
    "reportType": "ItemDetailsReport",  
    "subscriptionList": [  
        "00000000-0000-0000-0000-000000000000",  
        "00000000-0000-0000-0000-000000000001",  
        "00000000-0000-0000-0000-000000000002",  
        "00000000-0000-0000-0000-000000000003",  
        "00000000-0000-0000-0000-000000000004",  
        "00000000-0000-0000-0000-000000000005",  
        "00000000-0000-0000-0000-000000000006",  
        "00000000-0000-0000-0000-000000000007",  
        "00000000-0000-0000-0000-000000000008"  
    ],  
    "carbonScopeList": [  
        "Scope1",  
        "Scope3"  
    ],  
    "dateRange": {  
        "start": "2024-05-01",  
        "end": "2024-05-01"  
    },  
    "categoryType": "Resource",  
    "orderBy": "LatestMonthEmissions",  
    "sortDirection": "Desc",  
    "pageSize": 100,  
    "skipToken": "dGVzZGZhZGzzZnNkZg=="  
}
```

## Sample response

Status code: 200

JSON

```
{  
    "subscriptionAccessDecisionList": [  
        {  
            "subscriptionId": "00000000-0000-0000-0000-000000000000",  
            "decision": "Allowed"  
        },  
        {  
            "subscriptionId": "00000000-0000-0000-0000-000000000001",  
            "decision": "Allowed"  
        },  
        {  
            "subscriptionId": "00000000-0000-0000-0000-000000000002",  
            "decision": "Allowed"  
        },  
        {  
            "subscriptionId": "00000000-0000-0000-0000-000000000003",  
            "decision": "Allowed"  
        },  
        {  
            "subscriptionId": "00000000-0000-0000-0000-000000000004",  
            "decision": "Allowed"  
        },  
        {  
            "subscriptionId": "00000000-0000-0000-0000-000000000005",  
            "decision": "Allowed"  
        },  
        {  
            "subscriptionId": "00000000-0000-0000-0000-000000000006",  
            "decision": "Denied"  
        },  
        {  
            "subscriptionId": "00000000-0000-0000-0000-000000000007",  
            "decision": "Denied"  
        }  
    ]
```

```
{
  "subscriptionId": "00000000-0000-0000-0000-000000000008",
  "decision": "Denied",
  "denialReason": "Carbon Optimization Reader permision required"
}
],
"value": [
  {
    "dataType": "ResourceItemDetailsData",
    "latestMonthEmissions": 0.1,
    "previousMonthEmissions": 0.05,
    "monthOverMonthEmissionsChangeRatio": 1,
    "monthlyEmissionsChangeValue": 0.05,
    "itemName": "rgName1",
    "resourceGroup": "rgGroup",
    "resourceId": "/subscriptions/00000000-0000-0000-0000-
000000000000/resourceGroups/rgGroup/providers/microsoft.storage/storageaccounts/rgName1",
    "subscriptionId": "00000000-0000-0000-0000-000000000000",
    "categoryType": "Resource",
    "resourceType": "microsoft.storage/storageaccounts",
    "location": "east us"
  },
  {
    "dataType": "ResourceItemDetailsData",
    "latestMonthEmissions": 0.1,
    "previousMonthEmissions": 0.05,
    "monthOverMonthEmissionsChangeRatio": 1,
    "monthlyEmissionsChangeValue": 0.05,
    "itemName": "rgName2",
    "resourceGroup": "rgGroup",
    "resourceId": "/subscriptions/00000000-0000-0000-0000-
000000000000/resourceGroups/rgGroup/providers/microsoft.storage/storageaccounts/rgName2",
    "subscriptionId": "00000000-0000-0000-0000-000000000000",
    "categoryType": "Resource",
    "resourceType": "microsoft.storage/storageaccounts",
    "location": "east us"
  },
  {
    "dataType": "ResourceItemDetailsData",
    "latestMonthEmissions": 0.1,
    "previousMonthEmissions": 0.05,
    "monthOverMonthEmissionsChangeRatio": 1,
    "monthlyEmissionsChangeValue": 0.05,
    "itemName": "rgName3",
    "resourceGroup": "rgGroup",
    "resourceId": "/subscriptions/00000000-0000-0000-0000-
000000000000/resourceGroups/rgGroup/providers/microsoft.storage/storageaccounts/rgName3",
    "subscriptionId": "00000000-0000-0000-0000-000000000000",
    "categoryType": "Resource",
    "resourceType": "microsoft.storage/storageaccounts",
    "location": "east us"
  },
  {
    "dataType": "ResourceItemDetailsData",
    "latestMonthEmissions": 0.1,
    "previousMonthEmissions": 0.05,
    "monthOverMonthEmissionsChangeRatio": 1,
    "monthlyEmissionsChangeValue": 0.05,
    "itemName": "rgName4",
    "resourceGroup": "rgGroup",
    "resourceId": "/subscriptions/00000000-0000-0000-0000-
000000000002/resourceGroups/rgGroup/providers/microsoft.storage/storageaccounts/rgName4",
    "subscriptionId": "00000000-0000-0000-0000-000000000002",
    "categoryType": "Resource",
    "resourceType": "microsoft.storage/storageaccounts",
    "location": "east us"
  },
  {
    "dataType": "ResourceItemDetailsData",
    "latestMonthEmissions": 0.1,
    "previousMonthEmissions": 0.05,
    "monthOverMonthEmissionsChangeRatio": 1,
    "monthlyEmissionsChangeValue": 0.05,
    "itemName": "rgName5",
    "resourceGroup": "rgGroup",
    "resourceId": "/subscriptions/00000000-0000-0000-0000-
000000000002/resourceGroups/rgGroup/providers/microsoft.storage/storageaccounts/rgName5",
    "subscriptionId": "00000000-0000-0000-0000-000000000002",
    "categoryType": "Resource",
    "resourceType": "microsoft.storage/storageaccounts",
    "location": "east us"
  }
]
```

```
    ]  
}
```

## QueryCarbonEmission ResourceGroup item details Report

### Sample request

HTTP

HTTP

```
POST https://management.azure.com/providers/Microsoft.Carbon/carbonEmissionReports?api-version=2025-04-01
```

```
{  
  "reportType": "ItemDetailsReport",  
  "subscriptionList": [  
    "00000000-0000-0000-0000-000000000000",  
    "00000000-0000-0000-0000-000000000001",  
    "00000000-0000-0000-0000-000000000002",  
    "00000000-0000-0000-0000-000000000003",  
    "00000000-0000-0000-0000-000000000004",  
    "00000000-0000-0000-0000-000000000005",  
    "00000000-0000-0000-0000-000000000006",  
    "00000000-0000-0000-0000-000000000007",  
    "00000000-0000-0000-0000-000000000008"  
,  
  "carbonScopeList": [  
    "Scope1",  
    "Scope3"  
,  
  ],  
  "dateRange": {  
    "start": "2024-05-01",  
    "end": "2024-05-01"  
,  
  "categoryType": "ResourceGroup",  
  "orderBy": "LatestMonthEmissions",  
  "sortDirection": "Desc",  
  "pageSize": 100  
}
```

### Sample response

Status code: 200

JSON

```
{  
  "subscriptionAccessDecisionList": [  
    {  
      "subscriptionId": "00000000-0000-0000-0000-000000000000",  
      "decision": "Allowed"  
,  
    {  
      "subscriptionId": "00000000-0000-0000-0000-000000000001",  
      "decision": "Allowed"  
,  
    {  
      "subscriptionId": "00000000-0000-0000-0000-000000000002",  
      "decision": "Allowed"  
,  
    {  
      "subscriptionId": "00000000-0000-0000-0000-000000000003",  
      "decision": "Allowed"  
,  
    {  
      "subscriptionId": "00000000-0000-0000-0000-000000000004",  
      "decision": "Allowed"  
,  
    {  
      "subscriptionId": "00000000-0000-0000-0000-000000000005",  
      "decision": "Allowed"  
,  
    {  
      "subscriptionId": "00000000-0000-0000-0000-000000000006",  
    }
```

```

    "decision": "Denied"
},
{
  "subscriptionId": "00000000-0000-0000-0000-000000000007",
  "decision": "Denied"
},
{
  "subscriptionId": "00000000-0000-0000-0000-000000000008",
  "decision": "Denied",
  "denialReason": "Carbon Optimization Reader permision required"
}
],
"value": [
{
  "dataType": "ResourceGroupItemDetailsData",
  "latestMonthEmissions": 0.1,
  "previousMonthEmissions": 0.05,
  "monthOverMonthEmissionsChangeRatio": 1,
  "monthlyEmissionsChangeValue": 0.05,
  "itemName": "rgGroup1",
  "resourceGroupUrl": "/subscriptions/00000000-0000-0000-0000-000000000000/resourceGroups/rgGroup1",
  "subscriptionId": "00000000-0000-0000-0000-000000000000",
  "categoryType": "ResourceGroup"
},
{
  "dataType": "ResourceGroupItemDetailsData",
  "latestMonthEmissions": 0.1,
  "previousMonthEmissions": 0.05,
  "monthOverMonthEmissionsChangeRatio": 1,
  "monthlyEmissionsChangeValue": 0.05,
  "itemName": "rgGroup2",
  "resourceGroupUrl": "/subscriptions/00000000-0000-0000-0000-000000000000/resourceGroups/rgGroup2",
  "subscriptionId": "00000000-0000-0000-0000-000000000000",
  "categoryType": "ResourceGroup"
},
{
  "dataType": "ResourceGroupItemDetailsData",
  "latestMonthEmissions": 0.1,
  "previousMonthEmissions": 0.05,
  "monthOverMonthEmissionsChangeRatio": 1,
  "monthlyEmissionsChangeValue": 0.05,
  "itemName": "rgGroup3",
  "resourceGroupUrl": "/subscriptions/00000000-0000-0000-0000-000000000000/resourceGroups/rgGroup3",
  "subscriptionId": "00000000-0000-0000-0000-000000000000",
  "categoryType": "ResourceGroup"
},
{
  "dataType": "ResourceGroupItemDetailsData",
  "latestMonthEmissions": 0.1,
  "previousMonthEmissions": 0.05,
  "monthOverMonthEmissionsChangeRatio": 1,
  "monthlyEmissionsChangeValue": 0.05,
  "itemName": "rgGroup4",
  "resourceGroupUrl": "/subscriptions/00000000-0000-0000-0000-000000000002/resourceGroups/rgGroup4",
  "subscriptionId": "00000000-0000-0000-0000-000000000002",
  "categoryType": "ResourceGroup"
},
{
  "dataType": "ResourceGroupItemDetailsData",
  "latestMonthEmissions": 0.1,
  "previousMonthEmissions": 0.05,
  "monthOverMonthEmissionsChangeRatio": 1,
  "monthlyEmissionsChangeValue": 0.05,
  "itemName": "rgGroup5",
  "resourceGroupUrl": "/subscriptions/00000000-0000-0000-0000-000000000002/resourceGroups/rgGroup5",
  "subscriptionId": "00000000-0000-0000-0000-000000000002",
  "categoryType": "ResourceGroup"
}
]
}

```

## QueryCarbonEmission ResourceType item details Report

### Sample request

HTTP

HTTP

```
POST https://management.azure.com/providers/Microsoft.Carbon/carbonEmissionReports?api-version=2025-04-01

{
  "reportType": "ItemDetailsReport",
  "subscriptionList": [
    "00000000-0000-0000-0000-000000000000",
    "00000000-0000-0000-0000-000000000001",
    "00000000-0000-0000-0000-000000000002",
    "00000000-0000-0000-0000-000000000003",
    "00000000-0000-0000-0000-000000000004",
    "00000000-0000-0000-0000-000000000005",
    "00000000-0000-0000-0000-000000000006",
    "00000000-0000-0000-0000-000000000007",
    "00000000-0000-0000-0000-000000000008"
  ],
  "carbonScopeList": [
    "Scope1",
    "Scope3"
  ],
  "dateRange": {
    "start": "2024-05-01",
    "end": "2024-05-01"
  },
  "categoryType": "ResourceType",
  "orderBy": "LatestMonthEmissions",
  "sortDirection": "Desc",
  "pageSize": 100
}
```

## Sample response

Status code: 200

JSON

```
{
  "subscriptionAccessDecisionList": [
    {
      "subscriptionId": "00000000-0000-0000-0000-000000000000",
      "decision": "Allowed"
    },
    {
      "subscriptionId": "00000000-0000-0000-0000-000000000001",
      "decision": "Allowed"
    },
    {
      "subscriptionId": "00000000-0000-0000-0000-000000000002",
      "decision": "Allowed"
    },
    {
      "subscriptionId": "00000000-0000-0000-0000-000000000003",
      "decision": "Allowed"
    },
    {
      "subscriptionId": "00000000-0000-0000-0000-000000000004",
      "decision": "Allowed"
    },
    {
      "subscriptionId": "00000000-0000-0000-0000-000000000005",
      "decision": "Allowed"
    },
    {
      "subscriptionId": "00000000-0000-0000-0000-000000000006",
      "decision": "Denied"
    },
    {
      "subscriptionId": "00000000-0000-0000-0000-000000000007",
      "decision": "Denied"
    },
    {
      "subscriptionId": "00000000-0000-0000-0000-000000000008",
      "decision": "Denied",
      "denialReason": "Carbon Optimization Reader permision required"
    }
  ],
  "value": [
    ...
  ]
}
```

```
{
  "dataType": "ItemDetailsData",
  "latestMonthEmissions": 0.1,
  "previousMonthEmissions": 0.05,
  "monthOverMonthEmissionsChangeRatio": 1,
  "monthlyEmissionsChangeValue": 0.05,
  "itemName": "microsoft.storage/storageaccounts",
  "categoryType": "ResourceType"
},
{
  "dataType": "ItemDetailsData",
  "latestMonthEmissions": 0.1,
  "previousMonthEmissions": 0.05,
  "monthOverMonthEmissionsChangeRatio": 1,
  "monthlyEmissionsChangeValue": 0.05,
  "itemName": "microsoft.compute/disks",
  "categoryType": "ResourceType"
},
{
  "dataType": "ItemDetailsData",
  "latestMonthEmissions": 0.1,
  "previousMonthEmissions": 0.05,
  "monthOverMonthEmissionsChangeRatio": 1,
  "monthlyEmissionsChangeValue": 0.05,
  "itemName": "microsoft.sql/servers",
  "categoryType": "ResourceType"
},
{
  "dataType": "ItemDetailsData",
  "latestMonthEmissions": 0.1,
  "previousMonthEmissions": 0.05,
  "monthOverMonthEmissionsChangeRatio": 1,
  "monthlyEmissionsChangeValue": 0.05,
  "itemName": "microsoft.keyvault/vaults",
  "categoryType": "ResourceType"
},
{
  "dataType": "ItemDetailsData",
  "latestMonthEmissions": 0.1,
  "previousMonthEmissions": 0.05,
  "monthOverMonthEmissionsChangeRatio": 1,
  "monthlyEmissionsChangeValue": 0.05,
  "itemName": "microsoft.compute/virtualmachines",
  "categoryType": "ResourceType"
}
]
```

## QueryCarbonEmission Subscriptions item details Report

### Sample request

HTTP

HTTP

```
POST https://management.azure.com/providers/Microsoft.Carbon/carbonEmissionReports?api-version=2025-04-01
```

```
{
  "reportType": "ItemDetailsReport",
  "subscriptionList": [
    "00000000-0000-0000-0000-000000000000",
    "00000000-0000-0000-0000-000000000001",
    "00000000-0000-0000-0000-000000000002",
    "00000000-0000-0000-0000-000000000003",
    "00000000-0000-0000-0000-000000000004",
    "00000000-0000-0000-0000-000000000005",
    "00000000-0000-0000-0000-000000000006",
    "00000000-0000-0000-0000-000000000007",
    "00000000-0000-0000-0000-000000000008"
  ],
  "carbonScopeList": [
    "Scope1",
    "Scope3"
  ],
  "dateRange": {
    "start": "2024-05-01",
    "end": "2024-05-31"
  }
}
```

```

        "end": "2024-05-01"
    },
    "categoryType": "Subscription",
    "orderBy": "LatestMonthEmissions",
    "sortDirection": "Desc",
    "pageSize": 100
}

```

## Sample response

Status code: 200

JSON

```
{
  "subscriptionAccessDecisionList": [
    {
      "subscriptionId": "00000000-0000-0000-0000-000000000000",
      "decision": "Allowed"
    },
    {
      "subscriptionId": "00000000-0000-0000-0000-000000000001",
      "decision": "Allowed"
    },
    {
      "subscriptionId": "00000000-0000-0000-0000-000000000002",
      "decision": "Allowed"
    },
    {
      "subscriptionId": "00000000-0000-0000-0000-000000000003",
      "decision": "Allowed"
    },
    {
      "subscriptionId": "00000000-0000-0000-0000-000000000004",
      "decision": "Allowed"
    },
    {
      "subscriptionId": "00000000-0000-0000-0000-000000000005",
      "decision": "Allowed"
    },
    {
      "subscriptionId": "00000000-0000-0000-0000-000000000006",
      "decision": "Denied"
    },
    {
      "subscriptionId": "00000000-0000-0000-0000-000000000007",
      "decision": "Denied"
    },
    {
      "subscriptionId": "00000000-0000-0000-0000-000000000008",
      "decision": "Denied",
      "denialReason": "Carbon Optimization Reader permission required"
    }
  ],
  "value": [
    {
      "dataType": "ItemDetailsData",
      "latestMonthEmissions": 0.1,
      "previousMonthEmissions": 0.05,
      "monthOverMonthEmissionsChangeRatio": 1,
      "monthlyEmissionsChangeValue": 0.05,
      "itemName": "00000000-0000-0000-000000000000",
      "categoryType": "Subscription"
    },
    {
      "dataType": "ItemDetailsData",
      "latestMonthEmissions": 0.1,
      "previousMonthEmissions": 0.05,
      "monthOverMonthEmissionsChangeRatio": 1,
      "monthlyEmissionsChangeValue": 0.05,
      "itemName": "00000000-0000-0000-000000000001",
      "categoryType": "Subscription"
    },
    {
      "dataType": "ItemDetailsData",
      "latestMonthEmissions": 0.1,
      "previousMonthEmissions": 0.05,
      "monthOverMonthEmissionsChangeRatio": 1,
      "monthlyEmissionsChangeValue": 0.05,
      "itemName": "00000000-0000-0000-000000000002",
      "categoryType": "Subscription"
    }
  ]
}
```

```

    "itemName": "00000000-0000-0000-0000-000000000002",
    "categoryType": "Subscription"
},
{
  "dataType": "ItemDetailsData",
  "latestMonthEmissions": 0.1,
  "previousMonthEmissions": 0.05,
  "monthOverMonthEmissionsChangeRatio": 1,
  "monthlyEmissionsChangeValue": 0.05,
  "itemName": "00000000-0000-0000-0000-000000000003",
  "categoryType": "Subscription"
},
{
  "dataType": "ItemDetailsData",
  "latestMonthEmissions": 0.1,
  "previousMonthEmissions": 0.05,
  "monthOverMonthEmissionsChangeRatio": 1,
  "monthlyEmissionsChangeValue": 0.05,
  "itemName": "00000000-0000-0000-0000-000000000004",
  "categoryType": "Subscription"
}
]
}

```

## QueryCarbonEmission Top N Locations monthly Report

### Sample request

HTTP

HTTP

```
POST https://management.azure.com/providers/Microsoft.Carbon/carbonEmissionReports?api-version=2025-04-01
```

```
{
  "reportType": "TopItemsMonthlySummaryReport",
  "subscriptionList": [
    "00000000-0000-0000-0000-000000000000",
    "00000000-0000-0000-0000-000000000001",
    "00000000-0000-0000-0000-000000000002",
    "00000000-0000-0000-0000-000000000003",
    "00000000-0000-0000-0000-000000000004",
    "00000000-0000-0000-0000-000000000005",
    "00000000-0000-0000-0000-000000000006",
    "00000000-0000-0000-0000-000000000007",
    "00000000-0000-0000-0000-000000000008"
  ],
  "carbonScopeList": [
    "Scope1",
    "Scope3"
  ],
  "dateRange": {
    "start": "2024-03-01",
    "end": "2024-05-01"
  },
  "categoryType": "Location",
  "topItems": 2
}
```

### Sample response

Status code: 200

JSON

```
{
  "subscriptionAccessDecisionList": [
    {
      "subscriptionId": "00000000-0000-0000-0000-000000000000",
      "decision": "Allowed"
    },
    {
      "subscriptionId": "00000000-0000-0000-0000-000000000001",
      "decision": "Allowed"
    }
  ]
}
```

```
},
{
  "subscriptionId": "00000000-0000-0000-0000-000000000002",
  "decision": "Allowed"
},
{
  "subscriptionId": "00000000-0000-0000-0000-000000000003",
  "decision": "Allowed"
},
{
  "subscriptionId": "00000000-0000-0000-0000-000000000004",
  "decision": "Allowed"
},
{
  "subscriptionId": "00000000-0000-0000-0000-000000000005",
  "decision": "Allowed"
},
{
  "subscriptionId": "00000000-0000-0000-0000-000000000006",
  "decision": "Denied"
},
{
  "subscriptionId": "00000000-0000-0000-0000-000000000007",
  "decision": "Denied"
},
{
  "subscriptionId": "00000000-0000-0000-0000-000000000008",
  "decision": "Denied",
  "denialReason": "Carbon Optimization Reader permision required"
}
],
"value": [
{
  "dataType": "TopItemsMonthlySummaryData",
  "latestMonthEmissions": 0.1,
  "previousMonthEmissions": 0.05,
  "monthOverMonthEmissionsChangeRatio": 1,
  "monthlyEmissionsChangeValue": 0.05,
  "itemName": "east us",
  "categoryType": "Location",
  "date": "2024-05-01"
},
{
  "dataType": "TopItemsMonthlySummaryData",
  "latestMonthEmissions": 0.1,
  "previousMonthEmissions": 0.05,
  "monthOverMonthEmissionsChangeRatio": 1,
  "monthlyEmissionsChangeValue": 0.05,
  "itemName": "east us",
  "categoryType": "Location",
  "date": "2024-04-01"
},
{
  "dataType": "TopItemsMonthlySummaryData",
  "latestMonthEmissions": 0.1,
  "previousMonthEmissions": 0.05,
  "monthOverMonthEmissionsChangeRatio": 1,
  "monthlyEmissionsChangeValue": 0.05,
  "itemName": "east us",
  "categoryType": "Location",
  "date": "2024-03-01"
},
{
  "dataType": "TopItemsMonthlySummaryData",
  "latestMonthEmissions": 0.1,
  "previousMonthEmissions": 0.05,
  "monthOverMonthEmissionsChangeRatio": 1,
  "monthlyEmissionsChangeValue": 0.05,
  "itemName": "west us",
  "categoryType": "Location",
  "date": "2024-05-01"
},
{
  "dataType": "TopItemsMonthlySummaryData",
  "latestMonthEmissions": 0.1,
  "previousMonthEmissions": 0.05,
  "monthOverMonthEmissionsChangeRatio": 1,
  "monthlyEmissionsChangeValue": 0.05,
  "itemName": "west us",
  "categoryType": "Location",
  "date": "2024-04-01"
}
],
```

```
{
  "dataType": "TopItemsMonthlySummaryData",
  "latestMonthEmissions": 0.1,
  "previousMonthEmissions": 0.05,
  "monthOverMonthEmissionsChangeRatio": 1,
  "monthlyEmissionsChangeValue": 0.05,
  "itemName": "west us",
  "categoryType": "Location",
  "date": "2024-03-01"
}
]
```

## QueryCarbonEmission Top N Locations Report

### Sample request

HTTP

HTTP

```
POST https://management.azure.com/providers/Microsoft.Carbon/carbonEmissionReports?api-version=2025-04-01
```

```
{
  "reportType": "TopItemsSummaryReport",
  "subscriptionList": [
    "00000000-0000-0000-0000-000000000000",
    "00000000-0000-0000-0000-000000000001",
    "00000000-0000-0000-0000-000000000002",
    "00000000-0000-0000-0000-000000000003",
    "00000000-0000-0000-0000-000000000004",
    "00000000-0000-0000-0000-000000000005",
    "00000000-0000-0000-0000-000000000006",
    "00000000-0000-0000-0000-000000000007",
    "00000000-0000-0000-0000-000000000008"
  ],
  "carbonScopeList": [
    "Scope1",
    "Scope3"
  ],
  "dateRange": {
    "start": "2024-05-01",
    "end": "2024-05-01"
  },
  "categoryType": "Location",
  "topItems": 5
}
```

### Sample response

Status code: 200

JSON

```
{
  "subscriptionAccessDecisionList": [
    {
      "subscriptionId": "00000000-0000-0000-0000-000000000000",
      "decision": "Allowed"
    },
    {
      "subscriptionId": "00000000-0000-0000-0000-000000000001",
      "decision": "Allowed"
    },
    {
      "subscriptionId": "00000000-0000-0000-0000-000000000002",
      "decision": "Allowed"
    },
    {
      "subscriptionId": "00000000-0000-0000-0000-000000000003",
      "decision": "Allowed"
    },
    {
      "subscriptionId": "00000000-0000-0000-0000-000000000004",
      "decision": "Allowed"
    }
  ]
}
```

```

        "decision": "Allowed"
    },
{
    "subscriptionId": "00000000-0000-0000-0000-000000000005",
    "decision": "Allowed"
},
{
    "subscriptionId": "00000000-0000-0000-0000-000000000006",
    "decision": "Denied"
},
{
    "subscriptionId": "00000000-0000-0000-0000-000000000007",
    "decision": "Denied"
},
{
    "subscriptionId": "00000000-0000-0000-0000-000000000008",
    "decision": "Denied",
    "denialReason": "Carbon Optimization Reader permision required"
}
],
"value": [
{
    "dataType": "TopItemsSummaryData",
    "latestMonthEmissions": 0.1,
    "previousMonthEmissions": 0.05,
    "monthOverMonthEmissionsChangeRatio": 1,
    "monthlyEmissionsChangeValue": 0.05,
    "itemName": "east us",
    "categoryType": "Location"
},
{
    "dataType": "TopItemsSummaryData",
    "latestMonthEmissions": 0.1,
    "previousMonthEmissions": 0.05,
    "monthOverMonthEmissionsChangeRatio": 1,
    "monthlyEmissionsChangeValue": 0.05,
    "itemName": "west us",
    "categoryType": "Location"
},
{
    "dataType": "TopItemsSummaryData",
    "latestMonthEmissions": 0.1,
    "previousMonthEmissions": 0.05,
    "monthOverMonthEmissionsChangeRatio": 1,
    "monthlyEmissionsChangeValue": 0.05,
    "itemName": "west us 2",
    "categoryType": "Location"
},
{
    "dataType": "TopItemsSummaryData",
    "latestMonthEmissions": 0.1,
    "previousMonthEmissions": 0.05,
    "monthOverMonthEmissionsChangeRatio": 1,
    "monthlyEmissionsChangeValue": 0.05,
    "itemName": "west us 3",
    "categoryType": "Location"
},
{
    "dataType": "TopItemsSummaryData",
    "latestMonthEmissions": 0.1,
    "previousMonthEmissions": 0.05,
    "monthOverMonthEmissionsChangeRatio": 1,
    "monthlyEmissionsChangeValue": 0.05,
    "itemName": "east us 2",
    "categoryType": "Location"
}
]
}

```

## QueryCarbonEmission Top N resource monthly Report

### Sample request

HTTP

HTTP

POST https://management.azure.com/providers/Microsoft.Carbon/carbonEmissionReports?api-version=2025-04-01

```
{  
    "reportType": "TopItemsMonthlySummaryReport",  
    "subscriptionList": [  
        "00000000-0000-0000-0000-000000000000",  
        "00000000-0000-0000-0000-000000000001",  
        "00000000-0000-0000-0000-000000000002",  
        "00000000-0000-0000-0000-000000000003",  
        "00000000-0000-0000-0000-000000000004",  
        "00000000-0000-0000-0000-000000000005",  
        "00000000-0000-0000-0000-000000000006",  
        "00000000-0000-0000-0000-000000000007",  
        "00000000-0000-0000-0000-000000000008"  
    ],  
    "carbonScopeList": [  
        "Scope1",  
        "Scope3"  
    ],  
    "dateRange": {  
        "start": "2024-03-01",  
        "end": "2024-05-01"  
    },  
    "categoryType": "Resource",  
    "topItems": 2  
}
```

## Sample response

Status code: 200

JSON

```
{  
    "subscriptionAccessDecisionList": [  
        {  
            "subscriptionId": "00000000-0000-0000-0000-000000000000",  
            "decision": "Allowed"  
        },  
        {  
            "subscriptionId": "00000000-0000-0000-0000-000000000001",  
            "decision": "Allowed"  
        },  
        {  
            "subscriptionId": "00000000-0000-0000-0000-000000000002",  
            "decision": "Allowed"  
        },  
        {  
            "subscriptionId": "00000000-0000-0000-0000-000000000003",  
            "decision": "Allowed"  
        },  
        {  
            "subscriptionId": "00000000-0000-0000-0000-000000000004",  
            "decision": "Allowed"  
        },  
        {  
            "subscriptionId": "00000000-0000-0000-0000-000000000005",  
            "decision": "Allowed"  
        },  
        {  
            "subscriptionId": "00000000-0000-0000-0000-000000000006",  
            "decision": "Denied"  
        },  
        {  
            "subscriptionId": "00000000-0000-0000-0000-000000000007",  
            "decision": "Denied"  
        },  
        {  
            "subscriptionId": "00000000-0000-0000-0000-000000000008",  
            "decision": "Denied",  
            "denialReason": "Carbon Optimization Reader permission required"  
        }  
    ],  
    "value": [  
        {  
            "dataType": "ResourceTopItemsMonthlySummaryData",  
            "latestMonthEmissions": 0.1,  
            "previousMonthEmissions": 0.05,  
            "resourceType": "Subscription"  
        }  
    ]  
}
```

```

        "monthOverMonthEmissionsChangeRatio": 1,
        "monthlyEmissionsChangeValue": 0.05,
        "itemName": "rgName1",
        "resourceGroup": "rgGroup",
        "resourceId": "/subscriptions/00000000-0000-0000-0000-
000000000000/resourceGroups/rgGroup/providers/microsoft.storage/storageaccounts/rgName1",
        "subscriptionId": "00000000-0000-0000-0000-000000000000",
        "categoryType": "Resource",
        "date": "2024-05-01"
    },
    {
        "dataType": "ResourceTopItemsMonthlySummaryData",
        "latestMonthEmissions": 0.1,
        "previousMonthEmissions": 0.05,
        "monthOverMonthEmissionsChangeRatio": 1,
        "monthlyEmissionsChangeValue": 0.05,
        "itemName": "rgName1",
        "resourceGroup": "rgGroup",
        "resourceId": "/subscriptions/00000000-0000-0000-0000-
000000000000/resourceGroups/rgGroup/providers/microsoft.storage/storageaccounts/rgName1",
        "subscriptionId": "00000000-0000-0000-0000-000000000000",
        "categoryType": "Resource",
        "date": "2024-04-01"
    },
    {
        "dataType": "ResourceTopItemsMonthlySummaryData",
        "latestMonthEmissions": 0.1,
        "previousMonthEmissions": 0.05,
        "monthOverMonthEmissionsChangeRatio": 1,
        "monthlyEmissionsChangeValue": 0.05,
        "itemName": "rgName1",
        "resourceGroup": "rgGroup",
        "resourceId": "/subscriptions/00000000-0000-0000-0000-
000000000000/resourceGroups/rgGroup/providers/microsoft.storage/storageaccounts/rgName1",
        "subscriptionId": "00000000-0000-0000-0000-000000000000",
        "categoryType": "Resource",
        "date": "2024-03-01"
    },
    {
        "dataType": "ResourceTopItemsMonthlySummaryData",
        "latestMonthEmissions": 0.1,
        "previousMonthEmissions": 0.05,
        "monthOverMonthEmissionsChangeRatio": 1,
        "monthlyEmissionsChangeValue": 0.05,
        "itemName": "rgName2",
        "resourceGroup": "rgGroup",
        "resourceId": "/subscriptions/00000000-0000-0000-0000-
000000000000/resourceGroups/rgGroup/providers/microsoft.storage/storageaccounts/rgName2",
        "subscriptionId": "00000000-0000-0000-0000-000000000000",
        "categoryType": "Resource",
        "date": "2024-05-01"
    },
    {
        "dataType": "ResourceTopItemsMonthlySummaryData",
        "latestMonthEmissions": 0.1,
        "previousMonthEmissions": 0.05,
        "monthOverMonthEmissionsChangeRatio": 1,
        "monthlyEmissionsChangeValue": 0.05,
        "itemName": "rgName2",
        "resourceGroup": "rgGroup",
        "resourceId": "/subscriptions/00000000-0000-0000-0000-
000000000000/resourceGroups/rgGroup/providers/microsoft.storage/storageaccounts/rgName2",
        "subscriptionId": "00000000-0000-0000-0000-000000000000",
        "categoryType": "Resource",
        "date": "2024-04-01"
    },
    {
        "dataType": "ResourceTopItemsMonthlySummaryData",
        "latestMonthEmissions": 0.1,
        "previousMonthEmissions": 0.05,
        "monthOverMonthEmissionsChangeRatio": 1,
        "monthlyEmissionsChangeValue": 0.05,
        "itemName": "rgName2",
        "resourceGroup": "rgGroup",
        "resourceId": "/subscriptions/00000000-0000-0000-0000-
000000000000/resourceGroups/rgGroup/providers/microsoft.storage/storageaccounts/rgName2",
        "subscriptionId": "00000000-0000-0000-0000-000000000000",
        "categoryType": "Resource",
        "date": "2024-03-01"
    }
]
}

```

# QueryCarbonEmission Top N resource Report

## Sample request

HTTP

HTTP

```
POST https://management.azure.com/providers/Microsoft.Carbon/carbonEmissionReports?api-version=2025-04-01

{
  "reportType": "TopItemsSummaryReport",
  "subscriptionList": [
    "00000000-0000-0000-0000-000000000000",
    "00000000-0000-0000-0000-000000000001",
    "00000000-0000-0000-0000-000000000002",
    "00000000-0000-0000-0000-000000000003",
    "00000000-0000-0000-0000-000000000004",
    "00000000-0000-0000-0000-000000000005",
    "00000000-0000-0000-0000-000000000006",
    "00000000-0000-0000-0000-000000000007",
    "00000000-0000-0000-0000-000000000008"
  ],
  "carbonScopeList": [
    "Scope1",
    "Scope3"
  ],
  "dateRange": {
    "start": "2024-05-01",
    "end": "2024-05-01"
  },
  "categoryType": "Resource",
  "topItems": 5
}
```

## Sample response

Status code: 200

JSON

```
{
  "subscriptionAccessDecisionList": [
    {
      "subscriptionId": "00000000-0000-0000-0000-000000000000",
      "decision": "Allowed"
    },
    {
      "subscriptionId": "00000000-0000-0000-0000-000000000001",
      "decision": "Allowed"
    },
    {
      "subscriptionId": "00000000-0000-0000-0000-000000000002",
      "decision": "Allowed"
    },
    {
      "subscriptionId": "00000000-0000-0000-0000-000000000003",
      "decision": "Allowed"
    },
    {
      "subscriptionId": "00000000-0000-0000-0000-000000000004",
      "decision": "Allowed"
    },
    {
      "subscriptionId": "00000000-0000-0000-0000-000000000005",
      "decision": "Allowed"
    },
    {
      "subscriptionId": "00000000-0000-0000-0000-000000000006",
      "decision": "Denied"
    },
    {
      "subscriptionId": "00000000-0000-0000-0000-000000000007",
      "decision": "Denied"
    }
  ]
}
```

```

    "decision": "Denied"
},
{
    "subscriptionId": "00000000-0000-0000-0000-000000000008",
    "decision": "Denied",
    "denialReason": "Carbon Optimization Reader permision required"
}
],
"value": [
{
    "dataType": "ResourceTopItemsSummaryData",
    "latestMonthEmissions": 0.1,
    "previousMonthEmissions": 0.05,
    "monthOverMonthEmissionsChangeRatio": 1,
    "monthlyEmissionsChangeValue": 0.05,
    "itemName": "rgName1",
    "resourceGroup": "rgGroup",
    "resourceId": "/subscriptions/00000000-0000-0000-0000-
000000000000/resourceGroups/rgGroup/providers/microsoft.storage/storageaccounts/rgName1",
    "subscriptionId": "00000000-0000-0000-0000-000000000000",
    "categoryType": "Resource"
},
{
    "dataType": "ResourceTopItemsSummaryData",
    "latestMonthEmissions": 0.1,
    "previousMonthEmissions": 0.05,
    "monthOverMonthEmissionsChangeRatio": 1,
    "monthlyEmissionsChangeValue": 0.05,
    "itemName": "rgName2",
    "resourceGroup": "rgGroup",
    "resourceId": "/subscriptions/00000000-0000-0000-0000-
000000000000/resourceGroups/rgGroup/providers/microsoft.storage/storageaccounts/rgName2",
    "subscriptionId": "00000000-0000-0000-0000-000000000000",
    "categoryType": "Resource"
},
{
    "dataType": "ResourceTopItemsSummaryData",
    "latestMonthEmissions": 0.1,
    "previousMonthEmissions": 0.05,
    "monthOverMonthEmissionsChangeRatio": 1,
    "monthlyEmissionsChangeValue": 0.05,
    "itemName": "rgName3",
    "resourceGroup": "rgGroup",
    "resourceId": "/subscriptions/00000000-0000-0000-0000-
000000000000/resourceGroups/rgGroup/providers/microsoft.storage/storageaccounts/rgName3",
    "subscriptionId": "00000000-0000-0000-0000-000000000000",
    "categoryType": "Resource"
},
{
    "dataType": "ResourceTopItemsSummaryData",
    "latestMonthEmissions": 0.1,
    "previousMonthEmissions": 0.05,
    "monthOverMonthEmissionsChangeRatio": 1,
    "monthlyEmissionsChangeValue": 0.05,
    "itemName": "rgName4",
    "resourceGroup": "rgGroup",
    "resourceId": "/subscriptions/00000000-0000-0000-0000-
000000000002/resourceGroups/rgGroup/providers/microsoft.storage/storageaccounts/rgName4",
    "subscriptionId": "00000000-0000-0000-0000-000000000002",
    "categoryType": "Resource"
},
{
    "dataType": "ResourceTopItemsSummaryData",
    "latestMonthEmissions": 0.1,
    "previousMonthEmissions": 0.05,
    "monthOverMonthEmissionsChangeRatio": 1,
    "monthlyEmissionsChangeValue": 0.05,
    "itemName": "rgName5",
    "resourceGroup": "rgGroup",
    "resourceId": "/subscriptions/00000000-0000-0000-0000-
000000000002/resourceGroups/rgGroup/providers/microsoft.storage/storageaccounts/rgName5",
    "subscriptionId": "00000000-0000-0000-0000-000000000002",
    "categoryType": "Resource"
}
]
}

```

## QueryCarbonEmission Top N ResourceGroup monthly Report

## Sample request

HTTP

HTTP

```
POST https://management.azure.com/providers/Microsoft.Carbon/carbonEmissionReports?api-version=2025-04-01
```

```
{  
    "reportType": "TopItemsMonthlySummaryReport",  
    "subscriptionList": [  
        "00000000-0000-0000-0000-000000000000",  
        "00000000-0000-0000-0000-000000000001",  
        "00000000-0000-0000-0000-000000000002",  
        "00000000-0000-0000-0000-000000000003",  
        "00000000-0000-0000-0000-000000000004",  
        "00000000-0000-0000-0000-000000000005",  
        "00000000-0000-0000-0000-000000000006",  
        "00000000-0000-0000-0000-000000000007",  
        "00000000-0000-0000-0000-000000000008"  
    ],  
    "carbonScopeList": [  
        "Scope1",  
        "Scope3"  
    ],  
    "dateRange": {  
        "start": "2024-03-01",  
        "end": "2024-05-01"  
    },  
    "categoryType": "ResourceGroup",  
    "topItems": 2  
}
```

## Sample response

Status code: 200

JSON

```
{  
    "subscriptionAccessDecisionList": [  
        {  
            "subscriptionId": "00000000-0000-0000-0000-000000000000",  
            "decision": "Allowed"  
        },  
        {  
            "subscriptionId": "00000000-0000-0000-0000-000000000001",  
            "decision": "Allowed"  
        },  
        {  
            "subscriptionId": "00000000-0000-0000-0000-000000000002",  
            "decision": "Allowed"  
        },  
        {  
            "subscriptionId": "00000000-0000-0000-0000-000000000003",  
            "decision": "Allowed"  
        },  
        {  
            "subscriptionId": "00000000-0000-0000-0000-000000000004",  
            "decision": "Allowed"  
        },  
        {  
            "subscriptionId": "00000000-0000-0000-0000-000000000005",  
            "decision": "Allowed"  
        },  
        {  
            "subscriptionId": "00000000-0000-0000-0000-000000000006",  
            "decision": "Denied"  
        },  
        {  
            "subscriptionId": "00000000-0000-0000-0000-000000000007",  
            "decision": "Denied"  
        },  
        {  
            "subscriptionId": "00000000-0000-0000-0000-000000000008",  
            "decision": "Denied",  
        }  
    ]  
}
```

```

        "denialReason": "Carbon Optimization Reader permision required"
    },
],
"value": [
{
    "dataType": "ResourceGroupTopItemsMonthlySummaryData",
    "latestMonthEmissions": 0.1,
    "previousMonthEmissions": 0.05,
    "monthOverMonthEmissionsChangeRatio": 1,
    "monthlyEmissionsChangeValue": 0.05,
    "itemName": "rgGroup1",
    "resourceGroupUrl": "/subscriptions/00000000-0000-0000-0000-000000000000/resourceGroups/rgGroup1",
    "subscriptionId": "00000000-0000-0000-0000-000000000000",
    "categoryType": "ResourceGroup",
    "date": "2024-05-01"
},
{
    "dataType": "ResourceGroupTopItemsMonthlySummaryData",
    "latestMonthEmissions": 0.1,
    "previousMonthEmissions": 0.05,
    "monthOverMonthEmissionsChangeRatio": 1,
    "monthlyEmissionsChangeValue": 0.05,
    "itemName": "rgGroup1",
    "resourceGroupUrl": "/subscriptions/00000000-0000-0000-0000-000000000000/resourceGroups/rgGroup1",
    "subscriptionId": "00000000-0000-0000-0000-000000000000",
    "categoryType": "ResourceGroup",
    "date": "2024-04-01"
},
{
    "dataType": "ResourceGroupTopItemsMonthlySummaryData",
    "latestMonthEmissions": 0.1,
    "previousMonthEmissions": 0.05,
    "monthOverMonthEmissionsChangeRatio": 1,
    "monthlyEmissionsChangeValue": 0.05,
    "itemName": "rgGroup1",
    "resourceGroupUrl": "/subscriptions/00000000-0000-0000-0000-000000000000/resourceGroups/rgGroup1",
    "subscriptionId": "00000000-0000-0000-0000-000000000000",
    "categoryType": "ResourceGroup",
    "date": "2024-03-01"
},
{
    "dataType": "ResourceGroupTopItemsMonthlySummaryData",
    "latestMonthEmissions": 0.1,
    "previousMonthEmissions": 0.05,
    "monthOverMonthEmissionsChangeRatio": 1,
    "monthlyEmissionsChangeValue": 0.05,
    "itemName": "rgGroup2",
    "resourceGroupUrl": "/subscriptions/00000000-0000-0000-0000-000000000000/resourceGroups/rgGroup2",
    "subscriptionId": "00000000-0000-0000-0000-000000000000",
    "categoryType": "ResourceGroup",
    "date": "2024-05-01"
},
{
    "dataType": "ResourceGroupTopItemsMonthlySummaryData",
    "latestMonthEmissions": 0.1,
    "previousMonthEmissions": 0.05,
    "monthOverMonthEmissionsChangeRatio": 1,
    "monthlyEmissionsChangeValue": 0.05,
    "itemName": "rgGroup2",
    "resourceGroupUrl": "/subscriptions/00000000-0000-0000-0000-000000000000/resourceGroups/rgGroup2",
    "subscriptionId": "00000000-0000-0000-0000-000000000000",
    "categoryType": "ResourceGroup",
    "date": "2024-04-01"
},
{
    "dataType": "ResourceGroupTopItemsMonthlySummaryData",
    "latestMonthEmissions": 0.1,
    "previousMonthEmissions": 0.05,
    "monthOverMonthEmissionsChangeRatio": 1,
    "monthlyEmissionsChangeValue": 0.05,
    "itemName": "rgGroup2",
    "resourceGroupUrl": "/subscriptions/00000000-0000-0000-0000-000000000000/resourceGroups/rgGroup2",
    "subscriptionId": "00000000-0000-0000-0000-000000000000",
    "categoryType": "ResourceGroup",
    "date": "2024-03-01"
}
]
}

```

## QueryCarbonEmission Top N ResourceGroup Report

## Sample request

HTTP

HTTP

```
POST https://management.azure.com/providers/Microsoft.Carbon/carbonEmissionReports?api-version=2025-04-01
```

```
{  
    "reportType": "TopItemsSummaryReport",  
    "subscriptionList": [  
        "00000000-0000-0000-0000-000000000000",  
        "00000000-0000-0000-0000-000000000001",  
        "00000000-0000-0000-0000-000000000002",  
        "00000000-0000-0000-0000-000000000003",  
        "00000000-0000-0000-0000-000000000004",  
        "00000000-0000-0000-0000-000000000005",  
        "00000000-0000-0000-0000-000000000006",  
        "00000000-0000-0000-0000-000000000007",  
        "00000000-0000-0000-0000-000000000008"  
    ],  
    "carbonScopeList": [  
        "Scope1",  
        "Scope3"  
    ],  
    "dateRange": {  
        "start": "2024-05-01",  
        "end": "2024-05-01"  
    },  
    "categoryType": "ResourceGroup",  
    "topItems": 5  
}
```

## Sample response

Status code: 200

JSON

```
{  
    "subscriptionAccessDecisionList": [  
        {  
            "subscriptionId": "00000000-0000-0000-0000-000000000000",  
            "decision": "Allowed"  
        },  
        {  
            "subscriptionId": "00000000-0000-0000-0000-000000000001",  
            "decision": "Allowed"  
        },  
        {  
            "subscriptionId": "00000000-0000-0000-0000-000000000002",  
            "decision": "Allowed"  
        },  
        {  
            "subscriptionId": "00000000-0000-0000-0000-000000000003",  
            "decision": "Allowed"  
        },  
        {  
            "subscriptionId": "00000000-0000-0000-0000-000000000004",  
            "decision": "Allowed"  
        },  
        {  
            "subscriptionId": "00000000-0000-0000-0000-000000000005",  
            "decision": "Allowed"  
        },  
        {  
            "subscriptionId": "00000000-0000-0000-0000-000000000006",  
            "decision": "Denied"  
        },  
        {  
            "subscriptionId": "00000000-0000-0000-0000-000000000007",  
            "decision": "Denied"  
        },  
        {  
            "subscriptionId": "00000000-0000-0000-0000-000000000008",  
            "decision": "Denied",  
        }  
    ]  
}
```

```

        "denialReason": "Carbon Optimization Reader permision required"
    },
],
"value": [
{
    "dataType": "ResourceGroupTopItemsSummaryData",
    "latestMonthEmissions": 0.1,
    "previousMonthEmissions": 0.05,
    "monthOverMonthEmissionsChangeRatio": 1,
    "monthlyEmissionsChangeValue": 0.05,
    "itemName": "rgGroup1",
    "resourceGroupUrl": "/subscriptions/00000000-0000-0000-0000-000000000000/resourceGroups/rgGroup1",
    "subscriptionId": "00000000-0000-0000-0000-000000000000",
    "categoryType": "ResourceGroup"
},
{
    "dataType": "ResourceGroupTopItemsSummaryData",
    "latestMonthEmissions": 0.1,
    "previousMonthEmissions": 0.05,
    "monthOverMonthEmissionsChangeRatio": 1,
    "monthlyEmissionsChangeValue": 0.05,
    "itemName": "rgGroup2",
    "resourceGroupUrl": "/subscriptions/00000000-0000-0000-0000-000000000000/resourceGroups/rgGroup2",
    "subscriptionId": "00000000-0000-0000-0000-000000000000",
    "categoryType": "ResourceGroup"
},
{
    "dataType": "ResourceGroupTopItemsSummaryData",
    "latestMonthEmissions": 0.1,
    "previousMonthEmissions": 0.05,
    "monthOverMonthEmissionsChangeRatio": 1,
    "monthlyEmissionsChangeValue": 0.05,
    "itemName": "rgGroup3",
    "resourceGroupUrl": "/subscriptions/00000000-0000-0000-0000-000000000000/resourceGroups/rgGroup3",
    "subscriptionId": "00000000-0000-0000-0000-000000000000",
    "categoryType": "ResourceGroup"
},
{
    "dataType": "ResourceGroupTopItemsSummaryData",
    "latestMonthEmissions": 0.1,
    "previousMonthEmissions": 0.05,
    "monthOverMonthEmissionsChangeRatio": 1,
    "monthlyEmissionsChangeValue": 0.05,
    "itemName": "rgGroup4",
    "resourceGroupUrl": "/subscriptions/00000000-0000-0000-0000-000000000002/resourceGroups/rgGroup4",
    "subscriptionId": "00000000-0000-0000-0000-000000000002",
    "categoryType": "ResourceGroup"
},
{
    "dataType": "ResourceGroupTopItemsSummaryData",
    "latestMonthEmissions": 0.1,
    "previousMonthEmissions": 0.05,
    "monthOverMonthEmissionsChangeRatio": 1,
    "monthlyEmissionsChangeValue": 0.05,
    "itemName": "rgGroup5",
    "resourceGroupUrl": "/subscriptions/00000000-0000-0000-0000-000000000002/resourceGroups/rgGroup5",
    "subscriptionId": "00000000-0000-0000-0000-000000000002",
    "categoryType": "ResourceGroup"
}
]
}
]
}

```

## QueryCarbonEmission Top N ResourceType monthly Report

### Sample request

HTTP

HTTP

```
POST https://management.azure.com/providers/Microsoft.Carbon/carbonEmissionReports?api-version=2025-04-01
```

```
{
    "reportType": "TopItemsMonthlySummaryReport",
    "subscriptionList": [
        "00000000-0000-0000-0000-000000000000",
        "00000000-0000-0000-0000-000000000001",
        "
```

```

    "00000000-0000-0000-0000-000000000002",
    "00000000-0000-0000-0000-000000000003",
    "00000000-0000-0000-0000-000000000004",
    "00000000-0000-0000-0000-000000000005",
    "00000000-0000-0000-0000-000000000006",
    "00000000-0000-0000-0000-000000000007",
    "00000000-0000-0000-0000-000000000008"
],
"carbonScopeList": [
    "Scope1",
    "Scope3"
],
"dateRange": {
    "start": "2024-03-01",
    "end": "2024-05-01"
},
"categoryType": "ResourceType",
"topItems": 2
}

```

## Sample response

Status code: 200

JSON

```
{
  "subscriptionAccessDecisionList": [
    {
      "subscriptionId": "00000000-0000-0000-0000-000000000000",
      "decision": "Allowed"
    },
    {
      "subscriptionId": "00000000-0000-0000-0000-000000000001",
      "decision": "Allowed"
    },
    {
      "subscriptionId": "00000000-0000-0000-0000-000000000002",
      "decision": "Allowed"
    },
    {
      "subscriptionId": "00000000-0000-0000-0000-000000000003",
      "decision": "Allowed"
    },
    {
      "subscriptionId": "00000000-0000-0000-0000-000000000004",
      "decision": "Allowed"
    },
    {
      "subscriptionId": "00000000-0000-0000-0000-000000000005",
      "decision": "Allowed"
    },
    {
      "subscriptionId": "00000000-0000-0000-0000-000000000006",
      "decision": "Denied"
    },
    {
      "subscriptionId": "00000000-0000-0000-0000-000000000007",
      "decision": "Denied"
    },
    {
      "subscriptionId": "00000000-0000-0000-0000-000000000008",
      "decision": "Denied",
      "denialReason": "Carbon Optimization Reader permission required"
    }
  ],
  "value": [
    {
      "dataType": "TopItemsMonthlySummaryData",
      "latestMonthEmissions": 0.1,
      "previousMonthEmissions": 0.05,
      "monthOverMonthEmissionsChangeRatio": 1,
      "monthlyEmissionsChangeValue": 0.05,
      "itemName": "microsoft.storage/storageaccounts",
      "categoryType": "ResourceType",
      "date": "2024-05-01"
    },
    {
      "dataType": "TopItemsMonthlySummaryData",
      "latestMonthEmissions": 0.1,
      "previousMonthEmissions": 0.05,
      "monthOverMonthEmissionsChangeRatio": 1,
      "monthlyEmissionsChangeValue": 0.05,
      "itemName": "microsoft.storage/storageaccounts",
      "categoryType": "ResourceType",
      "date": "2024-05-01"
    }
  ]
}
```

```

    "latestMonthEmissions": 0.1,
    "previousMonthEmissions": 0.05,
    "monthOverMonthEmissionsChangeRatio": 1,
    "monthlyEmissionsChangeValue": 0.05,
    "itemName": "microsoft.storage/storageaccounts",
    "categoryType": "ResourceType",
    "date": "2024-04-01"
},
{
    "dataType": "TopItemsMonthlySummaryData",
    "latestMonthEmissions": 0.1,
    "previousMonthEmissions": 0.05,
    "monthOverMonthEmissionsChangeRatio": 1,
    "monthlyEmissionsChangeValue": 0.05,
    "itemName": "microsoft.storage/storageaccounts",
    "categoryType": "ResourceType",
    "date": "2024-03-01"
},
{
    "dataType": "TopItemsMonthlySummaryData",
    "latestMonthEmissions": 0.1,
    "previousMonthEmissions": 0.05,
    "monthOverMonthEmissionsChangeRatio": 1,
    "monthlyEmissionsChangeValue": 0.05,
    "itemName": "microsoft.compute/disks",
    "categoryType": "ResourceType",
    "date": "2024-05-01"
},
{
    "dataType": "TopItemsMonthlySummaryData",
    "latestMonthEmissions": 0.1,
    "previousMonthEmissions": 0.05,
    "monthOverMonthEmissionsChangeRatio": 1,
    "monthlyEmissionsChangeValue": 0.05,
    "itemName": "microsoft.compute/disks",
    "categoryType": "ResourceType",
    "date": "2024-04-01"
},
{
    "dataType": "TopItemsMonthlySummaryData",
    "latestMonthEmissions": 0.1,
    "previousMonthEmissions": 0.05,
    "monthOverMonthEmissionsChangeRatio": 1,
    "monthlyEmissionsChangeValue": 0.05,
    "itemName": "microsoft.compute/disks",
    "categoryType": "ResourceType",
    "date": "2024-03-01"
}
]
}

```

## QueryCarbonEmission Top N ResourceType Report

### Sample request

HTTP

HTTP

POST <https://management.azure.com/providers/Microsoft.Carbon/carbonEmissionReports?api-version=2025-04-01>

```
{
    "reportType": "TopItemsSummaryReport",
    "subscriptionList": [
        "00000000-0000-0000-0000-000000000000",
        "00000000-0000-0000-0000-000000000001",
        "00000000-0000-0000-0000-000000000002",
        "00000000-0000-0000-0000-000000000003",
        "00000000-0000-0000-0000-000000000004",
        "00000000-0000-0000-0000-000000000005",
        "00000000-0000-0000-0000-000000000006",
        "00000000-0000-0000-0000-000000000007",
        "00000000-0000-0000-0000-000000000008"
    ],
    "carbonScopeList": [
        "Scope1",
        "Scope3"
    ]
}
```

```
],
  "dateRange": {
    "start": "2024-05-01",
    "end": "2024-05-01"
  },
  "categoryType": "ResourceType",
  "topItems": 5
}
```

## Sample response

Status code: 200

JSON

```
{
  "subscriptionAccessDecisionList": [
    {
      "subscriptionId": "00000000-0000-0000-0000-000000000000",
      "decision": "Allowed"
    },
    {
      "subscriptionId": "00000000-0000-0000-0000-000000000001",
      "decision": "Allowed"
    },
    {
      "subscriptionId": "00000000-0000-0000-0000-000000000002",
      "decision": "Allowed"
    },
    {
      "subscriptionId": "00000000-0000-0000-0000-000000000003",
      "decision": "Allowed"
    },
    {
      "subscriptionId": "00000000-0000-0000-0000-000000000004",
      "decision": "Allowed"
    },
    {
      "subscriptionId": "00000000-0000-0000-0000-000000000005",
      "decision": "Allowed"
    },
    {
      "subscriptionId": "00000000-0000-0000-0000-000000000006",
      "decision": "Denied"
    },
    {
      "subscriptionId": "00000000-0000-0000-0000-000000000007",
      "decision": "Denied"
    },
    {
      "subscriptionId": "00000000-0000-0000-0000-000000000008",
      "decision": "Denied",
      "denialReason": "Carbon Optimization Reader permission required"
    }
  ],
  "value": [
    {
      "dataType": "TopItemsSummaryData",
      "latestMonthEmissions": 0.1,
      "previousMonthEmissions": 0.05,
      "monthOverMonthEmissionsChangeRatio": 1,
      "monthlyEmissionsChangeValue": 0.05,
      "itemName": "microsoft.storage/storageaccounts",
      "categoryType": "ResourceType"
    },
    {
      "dataType": "TopItemsSummaryData",
      "latestMonthEmissions": 0.1,
      "previousMonthEmissions": 0.05,
      "monthOverMonthEmissionsChangeRatio": 1,
      "monthlyEmissionsChangeValue": 0.05,
      "itemName": "microsoft.compute/disks",
      "categoryType": "ResourceType"
    },
    {
      "dataType": "TopItemsSummaryData",
      "latestMonthEmissions": 0.1,
      "previousMonthEmissions": 0.05,
      "monthOverMonthEmissionsChangeRatio": 1,
```

```

    "monthlyEmissionsChangeValue": 0.05,
    "itemName": "microsoft.sql/servers",
    "categoryType": "ResourceType"
},
{
    "dataType": "TopItemsSummaryData",
    "latestMonthEmissions": 0.1,
    "previousMonthEmissions": 0.05,
    "monthOverMonthEmissionsChangeRatio": 1,
    "monthlyEmissionsChangeValue": 0.05,
    "itemName": "microsoft.keyvault/vaults",
    "categoryType": "ResourceType"
},
{
    "dataType": "TopItemsSummaryData",
    "latestMonthEmissions": 0.1,
    "previousMonthEmissions": 0.05,
    "monthOverMonthEmissionsChangeRatio": 1,
    "monthlyEmissionsChangeValue": 0.05,
    "itemName": "microsoft.compute/virtualmachines",
    "categoryType": "ResourceType"
}
]
}

```

## QueryCarbonEmission Top N Subscriptions monthly Report

### Sample request

HTTP

HTTP

```
POST https://management.azure.com/providers/Microsoft.Carbon/carbonEmissionReports?api-version=2025-04-01
```

```
{
    "reportType": "TopItemsMonthlySummaryReport",
    "subscriptionList": [
        "00000000-0000-0000-0000-000000000000",
        "00000000-0000-0000-0000-000000000001",
        "00000000-0000-0000-0000-000000000002",
        "00000000-0000-0000-0000-000000000003",
        "00000000-0000-0000-0000-000000000004",
        "00000000-0000-0000-0000-000000000005",
        "00000000-0000-0000-0000-000000000006",
        "00000000-0000-0000-0000-000000000007",
        "00000000-0000-0000-0000-000000000008"
    ],
    "carbonScopeList": [
        "Scope1",
        "Scope3"
    ],
    "dateRange": {
        "start": "2024-03-01",
        "end": "2024-05-01"
    },
    "categoryType": "Subscription",
    "topItems": 2
}
```

### Sample response

Status code: 200

JSON

```
{
    "subscriptionAccessDecisionList": [
        {
            "subscriptionId": "00000000-0000-0000-0000-000000000000",
            "decision": "Allowed"
        },
        {
            "subscriptionId": "00000000-0000-0000-0000-000000000001",
            "decision": "Blocked"
        }
    ]
}
```

```
        "decision": "Allowed"
    },
    {
        "subscriptionId": "00000000-0000-0000-0000-000000000002",
        "decision": "Allowed"
    },
    {
        "subscriptionId": "00000000-0000-0000-0000-000000000003",
        "decision": "Allowed"
    },
    {
        "subscriptionId": "00000000-0000-0000-0000-000000000004",
        "decision": "Allowed"
    },
    {
        "subscriptionId": "00000000-0000-0000-0000-000000000005",
        "decision": "Allowed"
    },
    {
        "subscriptionId": "00000000-0000-0000-0000-000000000006",
        "decision": "Denied"
    },
    {
        "subscriptionId": "00000000-0000-0000-0000-000000000007",
        "decision": "Denied"
    },
    {
        "subscriptionId": "00000000-0000-0000-0000-000000000008",
        "decision": "Denied",
        "denialReason": "Carbon Optimization Reader permision required"
    }
],
"value": [
    {
        "dataType": "TopItemsMonthlySummaryData",
        "latestMonthEmissions": 0.1,
        "previousMonthEmissions": 0.05,
        "monthOverMonthEmissionsChangeRatio": 1,
        "monthlyEmissionsChangeValue": 0.05,
        "itemName": "00000000-0000-0000-000000000000",
        "categoryType": "Subscription",
        "date": "2024-05-01"
    },
    {
        "dataType": "TopItemsMonthlySummaryData",
        "latestMonthEmissions": 0.1,
        "previousMonthEmissions": 0.05,
        "monthOverMonthEmissionsChangeRatio": 1,
        "monthlyEmissionsChangeValue": 0.05,
        "itemName": "00000000-0000-0000-000000000000",
        "categoryType": "Subscription",
        "date": "2024-04-01"
    },
    {
        "dataType": "TopItemsMonthlySummaryData",
        "latestMonthEmissions": 0.1,
        "previousMonthEmissions": 0.05,
        "monthOverMonthEmissionsChangeRatio": 1,
        "monthlyEmissionsChangeValue": 0.05,
        "itemName": "00000000-0000-0000-000000000000",
        "categoryType": "Subscription",
        "date": "2024-03-01"
    },
    {
        "dataType": "TopItemsMonthlySummaryData",
        "latestMonthEmissions": 0.1,
        "previousMonthEmissions": 0.05,
        "monthOverMonthEmissionsChangeRatio": 1,
        "monthlyEmissionsChangeValue": 0.05,
        "itemName": "00000000-0000-0000-000000000001",
        "categoryType": "Subscription",
        "date": "2024-05-01"
    },
    {
        "dataType": "TopItemsMonthlySummaryData",
        "latestMonthEmissions": 0.1,
        "previousMonthEmissions": 0.05,
        "monthOverMonthEmissionsChangeRatio": 1,
        "monthlyEmissionsChangeValue": 0.05,
        "itemName": "00000000-0000-0000-000000000001",
        "categoryType": "Subscription",
        "date": "2024-04-01"
    }
]
```

```

},
{
  "dataType": "TopItemsMonthlySummaryData",
  "latestMonthEmissions": 0.1,
  "previousMonthEmissions": 0.05,
  "monthOverMonthEmissionsChangeRatio": 1,
  "monthlyEmissionsChangeValue": 0.05,
  "itemName": "00000000-0000-0000-0000-000000000001",
  "categoryType": "Subscription",
  "date": "2024-03-01"
}
]
}

```

## QueryCarbonEmission Top N Subscriptions Report

### Sample request

HTTP

HTTP

```
POST https://management.azure.com/providers/Microsoft.Carbon/carbonEmissionReports?api-version=2025-04-01
```

```
{
  "reportType": "TopItemsSummaryReport",
  "subscriptionList": [
    "00000000-0000-0000-0000-000000000000",
    "00000000-0000-0000-0000-000000000001",
    "00000000-0000-0000-0000-000000000002",
    "00000000-0000-0000-0000-000000000003",
    "00000000-0000-0000-0000-000000000004",
    "00000000-0000-0000-0000-000000000005",
    "00000000-0000-0000-0000-000000000006",
    "00000000-0000-0000-0000-000000000007",
    "00000000-0000-0000-0000-000000000008"
  ],
  "carbonScopeList": [
    "Scope1",
    "Scope3"
  ],
  "dateRange": {
    "start": "2024-05-01",
    "end": "2024-05-01"
  },
  "categoryType": "Subscription",
  "topItems": 5
}
```

### Sample response

Status code: 200

JSON

```
{
  "subscriptionAccessDecisionList": [
    {
      "subscriptionId": "00000000-0000-0000-0000-000000000000",
      "decision": "Allowed"
    },
    {
      "subscriptionId": "00000000-0000-0000-0000-000000000001",
      "decision": "Allowed"
    },
    {
      "subscriptionId": "00000000-0000-0000-0000-000000000002",
      "decision": "Allowed"
    },
    {
      "subscriptionId": "00000000-0000-0000-0000-000000000003",
      "decision": "Allowed"
    }
  ]
}
```

```

    "subscriptionId": "00000000-0000-0000-0000-000000000004",
    "decision": "Allowed"
},
{
    "subscriptionId": "00000000-0000-0000-0000-000000000005",
    "decision": "Allowed"
},
{
    "subscriptionId": "00000000-0000-0000-0000-000000000006",
    "decision": "Denied"
},
{
    "subscriptionId": "00000000-0000-0000-0000-000000000007",
    "decision": "Denied"
},
{
    "subscriptionId": "00000000-0000-0000-0000-000000000008",
    "decision": "Denied",
    "denialReason": "Carbon Optimization Reader permision required"
}
],
"value": [
{
    "dataType": "TopItemsSummaryData",
    "latestMonthEmissions": 0.1,
    "previousMonthEmissions": 0.05,
    "monthOverMonthEmissionsChangeRatio": 1,
    "monthlyEmissionsChangeValue": 0.05,
    "itemName": "00000000-0000-0000-000000000000",
    "categoryType": "Subscription"
},
{
    "dataType": "TopItemsSummaryData",
    "latestMonthEmissions": 0.1,
    "previousMonthEmissions": 0.05,
    "monthOverMonthEmissionsChangeRatio": 1,
    "monthlyEmissionsChangeValue": 0.05,
    "itemName": "00000000-0000-0000-000000000001",
    "categoryType": "Subscription"
},
{
    "dataType": "TopItemsSummaryData",
    "latestMonthEmissions": 0.1,
    "previousMonthEmissions": 0.05,
    "monthOverMonthEmissionsChangeRatio": 1,
    "monthlyEmissionsChangeValue": 0.05,
    "itemName": "00000000-0000-0000-000000000002",
    "categoryType": "Subscription"
},
{
    "dataType": "TopItemsSummaryData",
    "latestMonthEmissions": 0.1,
    "previousMonthEmissions": 0.05,
    "monthOverMonthEmissionsChangeRatio": 1,
    "monthlyEmissionsChangeValue": 0.05,
    "itemName": "00000000-0000-0000-000000000003",
    "categoryType": "Subscription"
},
{
    "dataType": "TopItemsSummaryData",
    "latestMonthEmissions": 0.1,
    "previousMonthEmissions": 0.05,
    "monthOverMonthEmissionsChangeRatio": 1,
    "monthlyEmissionsChangeValue": 0.05,
    "itemName": "00000000-0000-0000-000000000004",
    "categoryType": "Subscription"
}
]
}

```

## Definitions

 Expand table

Name	Description
AccessDecisionEnum	Enum for Access Decision

<a href="#">CarbonEmissionDataListResult</a>	List of carbon emission results
<a href="#">CarbonEmissionItemDetailData</a>	Response for detailed carbon emissions
<a href="#">CarbonEmissionMonthlySummaryData</a>	Response for Monthly Carbon Emissions Summary
<a href="#">CarbonEmissionOverallSummaryData</a>	Response for Overall Carbon Emissions Summary
<a href="#">CarbonEmissionTopItemMonthlySummaryData</a>	Response for Top Items Carbon Emissions by Month
<a href="#">CarbonEmissionTopItemsSummaryData</a>	Response for Top Items by Category Type
<a href="#">CategoryTypeEnum</a>	Supported category types to be used with QueryParameter. Each type represents a different level of emissions data aggregation.
<a href="#">DateRange</a>	Date range to be used with QueryParameter, it should be within 12 months between start and end date. In certain cases, start and end dates must be the same date.
<a href="#">EmissionScopeEnum</a>	Supported carbon emission scopes to be used with QueryParameter, as defined by the GHG Protocol. At least one scope must be specified. The output will return a total of all specified scopes.
<a href="#">ErrorAdditionalInfo</a>	The resource management error additional info.
<a href="#">ErrorDetail</a>	The error detail.
<a href="#">ErrorResponse</a>	Error response
<a href="#">ItemDetailsQueryFilter</a>	Query Parameters for ItemDetailsReport
<a href="#">MonthlySummaryReportQueryFilter</a>	Query filter parameter to configure MonthlySummaryReport queries.
<a href="#">OrderByColumnEnum</a>	Sorting is supported for columns in ItemDetailsReport. This object includes the column names that sorting is allowed for. Select one of these supported values
<a href="#">OverallSummaryReportQueryFilter</a>	Query filter parameter to configure OverallSummaryReport queries.
<a href="#">ReportTypeEnum</a>	Enum for Report Type, specifying different report formats for carbon emissions data. Each report type returns different aggregations of carbon emissions across various categories, date range, emissions scope, and other parameters.
<a href="#">ResourceCarbonEmissionItemDetailData</a>	Response for Resource detailed carbon emissions
<a href="#">ResourceCarbonEmissionTopItemMonthlySummaryData</a>	Response for top items carbon emissions by month for resource
<a href="#">ResourceCarbonEmissionTopItemsSummaryData</a>	Response for Top Items For Resource Category
<a href="#">ResourceGroupCarbonEmissionItemDetailData</a>	Response for Resource Group detailed carbon emissions
<a href="#">ResourceGroupCarbonEmissionTopItemMonthlySummaryData</a>	Response for top items carbon emissions by month for resource group
<a href="#">ResourceGroupCarbonEmissionTopItemsSummaryData</a>	Response for Top Items For ResourceGroup
<a href="#">responseDataTypeEnum</a>	The response data type of Carbon emission data
<a href="#">SortDirectionEnum</a>	Sorting is supported for columns in ItemDetailsReport. This object define sorting direction.
<a href="#">SubscriptionAccessDecision</a>	Access Decision for each Subscription
<a href="#">TopItemsMonthlySummaryReportQueryFilter</a>	Query filter parameter to configure TopItemsMonthlySummaryReport queries.
<a href="#">TopItemsSummaryReportQueryFilter</a>	Query filter parameter to configure TopItemsSummaryReport queries.

## AccessDecisionEnum

Enumeration

Enum for Access Decision

[Expand table](#)

Value	Description
Allowed	Access allowed
Denied	Access denied

## CarbonEmissionDataListResult

Object

List of carbon emission results

[Expand table](#)

Name	Type	Description
skipToken	string	The pagination token to fetch next page data, it's null or empty if it doesn't have next page data
subscriptionAccessDecisionList	<a href="#">SubscriptionAccessDecision[]</a>	The access decision list for each input subscription
value	CarbonEmissionData[]:	<p>The CarbonEmissionData items on this page</p> <ul style="list-style-type: none"> <li>• <a href="#">CarbonEmissionItemDetailData[]</a></li> <li>• <a href="#">CarbonEmissionMonthlySummaryData[]</a></li> <li>• <a href="#">CarbonEmissionOverallSummaryData[]</a></li> <li>• <a href="#">CarbonEmissionTopItemMonthlySummaryData[]</a></li> <li>• <a href="#">CarbonEmissionTopItemsSummaryData[]</a></li> <li>• <a href="#">ResourceCarbonEmissionItemDetailData[]</a></li> <li>• <a href="#">ResourceCarbonEmissionTopItemMonthlySummaryData[]</a></li> <li>• <a href="#">ResourceCarbonEmissionTopItemsSummaryData[]</a></li> <li>• <a href="#">ResourceGroupCarbonEmissionItemDetailData[]</a></li> <li>• <a href="#">ResourceGroupCarbonEmissionTopItemMonthlySummaryData[]</a></li> <li>• <a href="#">ResourceGroupCarbonEmissionTopItemsSummaryData[]</a></li> </ul>

## CarbonEmissionItemDetailData

Object

Response for detailed carbon emissions

[Expand table](#)

Name	Type	Description
categoryType	<a href="#">CategoryTypeEnum</a>	Item category, see supported type value defined in CategoryTypeEnum

dataType	string: ItemDetailsData	The data type of the query result, indicating the format of the returned response.
itemName	string	Item name, it can be resource name, resource type name, location, resource group name or subscriptionId. It depends on category type.
latestMonthEmissions	number (double)	Total carbon emissions for the specified query parameters, measured in kgCO2E. This value represents total emissions over the specified date range (e.g., March-June).
monthOverMonthEmissionsChangeRatio	number (double)	The percentage change in carbon emissions between the current and previous DateRange. This is calculated as: $(\text{latestMonthEmissions} - \text{previousMonthEmissions}) / \text{previousMonthEmissions}$ .
monthlyEmissionsChangeValue	number (double)	The change in carbon emissions between the current and previous period, calculated as: $\text{latestMonthEmissions} - \text{previousMonthEmissions}$ .
previousMonthEmissions	number (double)	Total carbon emissions for the previous month's date range, which is the same period as the specified date range but shifted left by one month (e.g., if the specified range is March - June, the previous month's range will be Feb - May). The value is measured in kgCO2E.

## CarbonEmissionMonthlySummaryData

Object

Response for Monthly Carbon Emissions Summary

[Expand table](#)

Name	Type	Description
carbonIntensity	number (double)	Carbon intensity for the specified month, typically in units of kgCO2E per unit of normalized usage
dataType	string: MonthlySummary Data	The data type of the query result, indicating the format of the returned response.
date	string	The date, representing the month, for which the emissions data is reported, formatted as yyyy-MM-dd (e.g., 2024-03-01)
latestMonthEmissions	number (double)	Total carbon emissions for the specified query parameters, measured in kgCO2E. This value represents total emissions over the specified date range (e.g., March-June).
monthOverMonthEmissionsChangeRatio	number (double)	The percentage change in carbon emissions between the current and previous DateRange. This is calculated as: $(\text{latestMonthEmissions} - \text{previousMonthEmissions}) / \text{previousMonthEmissions}$ .
monthlyEmissionsChangeValue	number (double)	The change in carbon emissions between the current and previous period, calculated as: $\text{latestMonthEmissions} - \text{previousMonthEmissions}$ .
previousMonthEmissions	number (double)	Total carbon emissions for the previous month's date range, which is the same period as the specified date range but shifted left by one month (e.g., if the specified range is March - June, the previous month's range will be Feb - May). The value is measured in kgCO2E.

## CarbonEmissionOverallSummaryData

Object

Response for Overall Carbon Emissions Summary

[Expand table](#)

Name	Type	Description
dataType	string: OverallSummaryData	The data type of the query result, indicating the format of the returned response.
latestMonthEmissions	number (double)	Total carbon emissions for the specified query parameters, measured in kgCO2E. This value represents total emissions over the specified date range (e.g., March-June).
monthOverMonthEmissionsChangeRatio	number (double)	The percentage change in carbon emissions between the current and previous DateRange. This is calculated as: $(\text{latestMonthEmissions} - \text{previousMonthEmissions}) / \text{previousMonthEmissions}$ .

monthlyEmissionsChangeValue	number (double)	The change in carbon emissions between the current and previous period, calculated as: latestMonthEmissions - previousMonthEmissions.
previousMonthEmissions	number (double)	Total carbon emissions for the previous month's date range, which is the same period as the specified date range but shifted left by one month (e.g., if the specified range is March - June, the previous month's range will be Feb - May). The value is measured in kgCO2E.

## CarbonEmissionTopItemMonthlySummaryData

Object

Response for Top Items Carbon Emissions by Month

[Expand table](#)

Name	Type	Description
categoryType	<a href="#">CategoryTypeEnum</a>	Item category, see supported type value defined in CategoryTypeEnum
dataType	string:  TopItemsMonthlySummaryData	The data type of the query result, indicating the format of the returned response.
date	string	The date, representing the month, for which the emissions data is reported, formatted as yyyy-MM-dd (e.g., 2024-03-01)
itemName	string	Item name, it can be resource name, resource type name, location, resource group name or subscriptionId. It depends on category type.
latestMonthEmissions	number (double)	Total carbon emissions for the specified query parameters, measured in kgCO2E. This value represents total emissions over the specified date range (e.g., March-June).
monthOverMonthEmissionsChangeRatio	number (double)	The percentage change in carbon emissions between the current and previous DateRange. This is calculated as: (latestMonthEmissions - previousMonthEmissions) / previousMonthEmissions.
monthlyEmissionsChangeValue	number (double)	The change in carbon emissions between the current and previous period, calculated as: latestMonthEmissions - previousMonthEmissions.
previousMonthEmissions	number (double)	Total carbon emissions for the previous month's date range, which is the same period as the specified date range but shifted left by one month (e.g., if the specified range is March - June, the previous month's range will be Feb - May). The value is measured in kgCO2E.

## CarbonEmissionTopItemsSummaryData

Object

Response for Top Items by Category Type

[Expand table](#)

Name	Type	Description
categoryType	<a href="#">CategoryTypeEnum</a>	The category type of the item. This defines which dimension the emissions are aggregated by, and the supported values are defined in CategoryTypeEnum (e.g., Subscription, ResourceGroup, Resource, etc.).
dataType	string:  TopItemsSummaryData	The data type of the query result, indicating the format of the returned response.
itemName	string	The identifier of the item being reported on, which could refer to the resource name, resource type name, location, resource group name, or subscription ID, depending on the specified category type.
latestMonthEmissions	number (double)	Total carbon emissions for the specified query parameters, measured in kgCO2E. This value represents total emissions over the specified date range (e.g., March-June).
monthOverMonthEmissionsChangeRatio	number (double)	The percentage change in carbon emissions between the current and previous DateRange. This is calculated as: (latestMonthEmissions - previousMonthEmissions) / previousMonthEmissions.
monthlyEmissionsChangeValue	number (double)	The change in carbon emissions between the current and previous period, calculated as: latestMonthEmissions - previousMonthEmissions.

previousMonthEmissions	number (double)	Total carbon emissions for the previous month's date range, which is the same period as the specified date range but shifted left by one month (e.g., if the specified range is March - June, the previous month's range will be Feb - May). The value is measured in kgCO2E.
------------------------	-----------------	---

## CategoryTypeEnum

Enumeration

Supported category types to be used with QueryParameter. Each type represents a different level of emissions data aggregation.

[Expand table](#)

Value	Description
Location	Emissions aggregated at the location level.
Resource	Emissions aggregated at the resource level.
ResourceGroup	Emissions aggregated at the resource group level.
ResourceType	Emissions aggregated at the resource type level.
Subscription	Emissions aggregated at the subscription level.

## DateRange

Object

Date range to be used with QueryParameter, it should be within 12 months between start and end date. In certain cases, start and end dates must be the same date.

[Expand table](#)

Name	Type	Description
end	string (date)	End date parameter in yyyy-MM-01 format. Only the first day of each month is accepted.
start	string (date)	Start date parameter in yyyy-MM-01 format. Only the first day of each month is accepted.

## EmissionScopeEnum

Enumeration

Supported carbon emission scopes to be used with QueryParameter, as defined by the GHG Protocol. At least one scope must be specified. The output will return a total of all specified scopes.

[Expand table](#)

Value	Description
Scope1	Scope1 carbon emission
Scope2	Scope2 carbon emission
Scope3	Scope3 carbon emission

## ErrorAdditionalInfo

Object

The resource management error additional info.

[Expand table](#)

Name	Type	Description
info	object	The additional info.
type	string	The additional info type.

## ErrorDetail

Object

The error detail.

[Expand table](#)

Name	Type	Description
additionalInfo	<a href="#">ErrorAdditionalInfo[]</a>	The error additional info.
code	string	The error code.
details	<a href="#">ErrorDetail[]</a>	The error details.
message	string	The error message.
target	string	The error target.

## ErrorResponse

Object

Error response

[Expand table](#)

Name	Type	Description
error	<a href="#">ErrorDetail</a>	The error object.

## ItemDetailsQueryFilter

Object

Query Parameters for ItemDetailsReport

[Expand table](#)

Name	Type	Description
carbonScopeList	<a href="#">EmissionScopeEnum[]</a>	List of carbon emission scopes. Required. Accepts one or more values from EmissionScopeEnum (e.g., Scope1, Scope2, Scope3) in list form. The output will include the total emissions for the specified scopes.
categoryType	<a href="#">CategoryTypeEnum</a>	Specifies the category type for detailed emissions data, such as Resource, ResourceGroup, ResourceType, Location, or Subscription. See supported types in CategoryTypeEnum.
dateRange	<a href="#">DateRange</a>	The start and end dates for carbon emissions data. Required. For ItemDetailsReport and TopItemsSummaryReport, only one month of data is supported at a time, so start and end dates should be equal within DateRange (e.g., start: 2024-06-01 and end: 2024-06-01).
locationList	string[]	List of locations(Azure Region Display Name) for carbon emissions data, with each location specified in lowercase (e.g., 'east us'). Optional. You can use the command 'az account list-locations -o table' to find Azure Region Display Names.
orderBy	<a href="#">OrderByColumnEnum</a>	The column name to order the results by. See supported values in OrderByColumnEnum.
pageSize	integer (int32) minimum: 1 maximum: 5000	Number of items to return in one request, max value is 5000.
reportType	string:  ItemDetailsReport	The ReportType requested for carbon emissions data. Required. Specifies how data is aggregated and displayed in the output, as explained in the ReportTypeEnum.
resourceGroupUrlList	string[]	List of resource group URLs for carbon emissions data. Optional. Each URL must follow the format '/subscriptions/{subscriptionId}/resourcegroups/{resourceGroup}', and should be in all lowercase.
resourceTypeList	string[]	List of resource types for carbon emissions data. Optional. Each resource type should be specified in lowercase, following the format 'microsoft.{service}/{resourceType}', e.g., 'microsoft.storage/storageaccounts'.
skipToken	string	Pagination token for fetching the next page of data. This token is nullable and will be returned in the previous response if additional data pages are available.

sortDirection	<a href="#">SortDirectionEnum</a>	Direction for sorting results. See supported values in SortDirectionEnum.
subscriptionList	string[]	List of subscription IDs for which carbon emissions data is requested. Required. Each subscription ID should be in lowercase format. The max length of list is 100.

## MonthlySummaryReportQueryFilter

Object

Query filter parameter to configure MonthlySummaryReport queries.

[Expand table](#)

Name	Type	Description
carbonScopeList	<a href="#">EmissionScopeEnum[]</a>	List of carbon emission scopes. Required. Accepts one or more values from EmissionScopeEnum (e.g., Scope1, Scope2, Scope3) in list form. The output will include the total emissions for the specified scopes.
dateRange	<a href="#">DateRange</a>	The start and end dates for carbon emissions data. Required. For ItemDetailsReport and TopItemsSummaryReport, only one month of data is supported at a time, so start and end dates should be equal within DateRange (e.g., start: 2024-06-01 and end: 2024-06-01).
locationList	string[]	List of locations(Azure Region Display Name) for carbon emissions data, with each location specified in lowercase (e.g., 'east us'). Optional. You can use the command 'az account list-regions -o table' to find Azure Region Display Names.
reportType	string: MonthlySummary Report	The ReportType requested for carbon emissions data. Required. Specifies how data is aggregated and displayed in the output, as explained in the ReportTypeEnum.
resourceGroupUrlList	string[]	List of resource group URLs for carbon emissions data. Optional. Each URL must follow the format '/subscriptions/{subscriptionId}/resourcegroups/{resourceGroup}', and should be in all lowercase.
resourceTypeList	string[]	List of resource types for carbon emissions data. Optional. Each resource type should be specified in lowercase, following the format 'microsoft.{service}/{resourceType}', e.g., 'microsoft.storage/storageaccounts'.
subscriptionList	string[]	List of subscription IDs for which carbon emissions data is requested. Required. Each subscription ID should be in lowercase format. The max length of list is 100.

## OrderByColumnEnum

Enumeration

Sorting is supported for columns in ItemDetailsReport. This object includes the column names that sorting is allowed for. Select one of these supported values

[Expand table](#)

Value	Description
ItemName	The itemName filed in ItemDetailsReport result, see CarbonEmissionItemDetailData for more information.
LatestMonthEmissions	The latestMonthEmissions filed in ItemDetailsReport result, see CarbonEmissionItemDetailData for more information.
MonthOverMonthEmissionsChangeRatio	The monthOverMonthEmissionsChangeRatio filed in ItemDetailsReport result, see CarbonEmissionItemDetailData for more information.
MonthlyEmissionsChangeValue	The monthlyEmissionsChangeValue filed in ItemDetailsReport result, see CarbonEmissionItemDetailData for more information.
PreviousMonthEmissions	The previousMonthEmissions filed in ItemDetailsReport result, see CarbonEmissionItemDetailData for more information.
ResourceGroup	The resourceGroup filed in ResourceCarbonEmissionItemDetailData result, see ResourceCarbonEmissionItemDetailData for more information.

## OverallSummaryReportQueryFilter

Object

Query filter parameter to configure OverallSummaryReport queries.

[Expand table](#)

Name	Type	Description
carbonScopeList	EmissionScopeEnum[]	List of carbon emission scopes. Required. Accepts one or more values from EmissionScopeEnum (e.g., Scope1, Scope2, Scope3) in list form. The output will include the total emissions for the specified scopes.
dateRange	DateRange	The start and end dates for carbon emissions data. Required. For ItemDetailsReport and TopItemsSummaryReport, only one month of data is supported at a time, so start and end dates should be equal within DateRange (e.g., start: 2024-06-01 and end: 2024-06-01).
locationList	string[]	List of locations(Azure Region Display Name) for carbon emissions data, with each location specified in lowercase (e.g., 'east us'). Optional. You can use the command 'az account list-regions -o table' to find Azure Region Display Names.
reportType	string: OverallSummary Report	The ReportType requested for carbon emissions data. Required. Specifies how data is aggregated and displayed in the output, as explained in the ReportTypeEnum.
resourceGroupUrlList	string[]	List of resource group URLs for carbon emissions data. Optional. Each URL must follow the format '/subscriptions/{subscriptionId}/resourcegroups/{resourceGroup}', and should be in all lowercase.
resourceTypeList	string[]	List of resource types for carbon emissions data. Optional. Each resource type should be specified in lowercase, following the format 'microsoft.{service}/{resourceType}', e.g., 'microsoft.storage/storageaccounts'.
subscriptionList	string[]	List of subscription IDs for which carbon emissions data is requested. Required. Each subscription ID should be in lowercase format. The max length of list is 100.

## ReportTypeEnum

Enumeration

Enum for Report Type, specifying different report formats for carbon emissions data. Each report type returns different aggregations of carbon emissions across various categories, date range, emissions scope, and other parameters.

[Expand table](#)

Value	Description
ItemDetailsReport	ItemDetailsReport provides a granular list of items based on the specified CategoryType (e.g., Resource, ResourceGroup, ResourceType, Location, or Subscription) for the query filter. This report can be queried for only one month at a time, requiring the same values in the start and end fields within DateRange.
MonthlySummaryReport	MonthlySummaryReport provides carbon emissions data by month for the specified query parameters. This report type can accept different values in the start and end fields within DateRange (e.g., start: 2024-03-01 and end: 2024-06-01).
OverallSummaryReport	Overall summary report provides total carbon emissions for the specified date range and query parameters, as well as comparative values for a high-level overview. This report type can accept different values in the start and end fields within DateRange (e.g., start: 2024-03-01 and end: 2024-06-01).
TopItemsMonthlySummaryReport	TopItemsMonthlyReport provides the N highest-emitting items by month for the specified query filter. Returns emissions data for the top N items by month within the given date range. A maximum of N=10 items can be returned at a time.
TopItemsSummaryReport	TopItemsSummaryReport provides the N highest-emitting items for the specified query filters. This report returns data for a single month at a time, so it requires the same values for the start and end fields within DateRange. A maximum of N=10 items can be returned at a time.

## ResourceCarbonEmissionItemDetailData

Object

Response for Resource detailed carbon emissions

[Expand table](#)

Name	Type	Description
categoryType	Category Type Enum	Resource Item category, see supported value defined in CategoryTypeEnum
dataType	string:	The data type of the query result, indicating the format of the returned response.

	Resource Item Details Data	
itemName	string	It's resource name.
latestMonthEmissions	number (double)	Total carbon emissions for the specified query parameters, measured in kgCO2E. This value represents total emissions range (e.g., March-June).
location	string	Resource Location (e.g., 'east us').
monthOverMonthEmissionsChangeRatio	number (double)	The percentage change in carbon emissions between the current and previous DateRange. This is calculated as: (latestMonthEmissions - previousMonthEmissions) / previousMonthEmissions.
monthlyEmissionsChangeValue	number (double)	The change in carbon emissions between the current and previous period, calculated as: latestMonthEmissions - previousMonthEmissions.
previousMonthEmissions	number (double)	Total carbon emissions for the previous month's date range, which is the same period as the specified date range but (e.g., if the specified range is March - June, the previous month's range will be Feb - May). The value is measured in kgCO2E.
resourceGroup	string	Resource Group
resourceId	string	The fully qualified resource ID for the resource. Ex - /subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/{resourceProviderNamespace}/{resourceType}/{resourceName}
resourceType	string	The type of resource, for example: microsoft.storage/storageaccounts
subscriptionId	string	Subscription Id

## ResourceCarbonEmissionTopItemMonthlySummaryData

Object

Response for top items carbon emissions by month for resource

[Expand table](#)

Name	Type	Description
categoryType	Category Type Enum	Resource Item category
dataType	string:	The data type of the query result, indicating the format of the returned response.  Resource TopItems Monthly Summary Data
date	string	Monthly date string, format is yyyy-MM-dd
itemName	string	The resource name of resource for Resource Category
latestMonthEmissions	number (double)	Total carbon emissions for the specified query parameters, measured in kgCO2E. This value represents total emissions range (e.g., March-June).
monthOverMonthEmissionsChangeRatio	number (double)	The percentage change in carbon emissions between the current and previous DateRange. This is calculated as: (latestMonthEmissions - previousMonthEmissions) / previousMonthEmissions.
monthlyEmissionsChangeValue	number (double)	The change in carbon emissions between the current and previous period, calculated as: latestMonthEmissions - previousMonthEmissions.
previousMonthEmissions	number (double)	Total carbon emissions for the previous month's date range, which is the same period as the specified date range but (e.g., if the specified range is March - June, the previous month's range will be Feb - May). The value is measured in kgCO2E.
resourceGroup	string	Resource Group
resourceId	string	The fully qualified resource ID for the resource. Ex - /subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/{resourceProviderNamespace}/{resourceType}/{resourceName}
subscriptionId	string	Subscription Id

## ResourceCarbonEmissionTopItemsSummaryData

Object

Response for Top Items For Resource Category

 Expand table

Name	Type	Description
categoryType	CategoryTypeEnum	The category type of the item. This defines which dimension the emissions are aggregated by, and the supported values are defined in CategoryTypeEnum (e.g., Subscription, ResourceGroup, Resource, etc.).
dataType	string: ResourceTopItems SummaryData	The data type of the query result, indicating the format of the returned response.
itemName	string	The resource name of the resource for the Resource Category.
latestMonthEmissions	number (double)	Total carbon emissions for the specified query parameters, measured in kgCO2E. This value represents total emissions over the specified date range (e.g., March-June).
monthOverMonthEmissionsChangeRatio	number (double)	The percentage change in carbon emissions between the current and previous DateRange. This is calculated as: $(\text{latestMonthEmissions} - \text{previousMonthEmissions}) / \text{previousMonthEmissions}$ .
monthlyEmissionsChangeValue	number (double)	The change in carbon emissions between the current and previous period, calculated as: latestMonthEmissions - previousMonthEmissions.
previousMonthEmissions	number (double)	Total carbon emissions for the previous month's date range, which is the same period as the specified date range but shifted left by one month (e.g., if the specified range is March - June, the previous month's range will be Feb - May). The value is measured in kgCO2E.
resourceGroup	string	Resource group name
resourceId	string	Resource Id, The URI of the resource for the Resource Category. This identifies the resource being reported.
subscriptionId	string	Subscription Id

## ResourceGroupCarbonEmissionItemDetailData

Object

Response for Resource Group detailed carbon emissions

 Expand table

Name	Type	Description
categoryType	CategoryTypeEnum	ResourceGroup Item category
dataType	string: ResourceGroupItem DetailsData	The data type of the query result, indicating the format of the returned response.
itemName	string	It's resource group name
latestMonthEmissions	number (double)	Total carbon emissions for the specified query parameters, measured in kgCO2E. This value represents total emissions over the specified date range (e.g., March-June).
monthOverMonthEmissionsChangeRatio	number (double)	The percentage change in carbon emissions between the current and previous DateRange. This is calculated as: $(\text{latestMonthEmissions} - \text{previousMonthEmissions}) / \text{previousMonthEmissions}$ .
monthlyEmissionsChangeValue	number (double)	The change in carbon emissions between the current and previous period, calculated as: latestMonthEmissions - previousMonthEmissions.
previousMonthEmissions	number (double)	Total carbon emissions for the previous month's date range, which is the same period as the specified date range but shifted left by one month (e.g., if the specified range is March - June, the previous month's range will be Feb - May). The value is measured in kgCO2E.
resourceGroupUrl	string	Resource Group url, value format is '/subscriptions/{subscriptionId}/resourcegroups/{resourceGroup}'
subscriptionId	string	Subscription Id

## ResourceGroupCarbonEmissionTopItemMonthlySummaryData

Object

Response for top items carbon emissions by month for resource group

 Expand table

Name	Type	Description
categoryType	<a href="#">CategoryTypeEnum</a>	ResourceGroup Item category
dataType	string:  ResourceGroupTop ItemsMonthly SummaryData	The data type of the query result, indicating the format of the returned response.
date	string	Monthly date string, format is yyyy-MM-dd
itemName	string	It's resource group name for ResourceGroup category
latestMonthEmissions	number (double)	Total carbon emissions for the specified query parameters, measured in kgCO2E. This value represents total emissions over the specified date range (e.g., March-June).
monthOverMonthEmissionsChangeRatio	number (double)	The percentage change in carbon emissions between the current and previous DateRange. This is calculated as: (latestMonthEmissions - previousMonthEmissions) / previousMonthEmissions.
monthlyEmissionsChangeValue	number (double)	The change in carbon emissions between the current and previous period, calculated as: latestMonthEmissions - previousMonthEmissions.
previousMonthEmissions	number (double)	Total carbon emissions for the previous month's date range, which is the same period as the specified date range but shifted left by one month (e.g., if the specified range is March - June, the previous month's range will be Feb - May). The value is measured in kgCO2E.
resourceGroupUrl	string	Resource Group url, the format is '/subscriptions/{subscriptionId}/resourcegroups/{resourceGroup}'
subscriptionId	string	Subscription Id

## ResourceGroupCarbonEmissionTopItemsSummaryData

Object

Response for Top Items For ResourceGroup

 Expand table

Name	Type	Description
categoryType	<a href="#">CategoryTypeEnum</a>	ResourceGroup Item category
dataType	string:  ResourceGroupTop ItemsSummaryData	The data type of the query result, indicating the format of the returned response.
itemName	string	The resourceGroup name of the resource for ResourceGroup Category
latestMonthEmissions	number (double)	Total carbon emissions for the specified query parameters, measured in kgCO2E. This value represents total emissions over the specified date range (e.g., March-June).
monthOverMonthEmissionsChangeRatio	number (double)	The percentage change in carbon emissions between the current and previous DateRange. This is calculated as: (latestMonthEmissions - previousMonthEmissions) / previousMonthEmissions.
monthlyEmissionsChangeValue	number (double)	The change in carbon emissions between the current and previous period, calculated as: latestMonthEmissions - previousMonthEmissions.
previousMonthEmissions	number (double)	Total carbon emissions for the previous month's date range, which is the same period as the specified date range but shifted left by one month (e.g., if the specified range is March - June, the previous month's range will be Feb - May). The value is measured in kgCO2E.
resourceGroupUrl	string	Resource Group url, value format is '/subscriptions/{subscriptionId}/resourcegroups/{resourceGroup}'
subscriptionId	string	Subscription Id

## ResponseTypeEnum

Enumeration

The response data type of Carbon emission data

[Expand table](#)

Value	Description
ItemDetailsData	The response data type for ItemDetailsReport
MonthlySummaryData	The response data type for MonthlySummaryReport
OverallSummaryData	The response data type for OverallSummaryReport
ResourceGroupItemDetailsData	The response data type for ResourceGroup's ItemDetailsReport
ResourceGroupTopItemsMonthlySummaryData	The response data type for ResourceGroup's TopItemsMonthlySummaryReport
ResourceGroupTopItemsSummaryData	The response data type for ResourceGroup's TopItemsSummaryReport
ResourceItemDetailsData	The response data type for Resource's ItemDetailsReport
ResourceTopItemsMonthlySummaryData	The response data type for Resource's TopItemsMonthlySummaryReport
ResourceTopItemsSummaryData	The response data type for Resource's TopItemsSummaryReport
TopItemsMonthlySummaryData	The response data type for TopItemsMonthlySummaryReport
TopItemsSummaryData	The response data type for TopItemsSummaryReport

## SortDirectionEnum

Enumeration

Sorting is supported for columns in ItemDetailsReport. This object define sorting direction.

[Expand table](#)

Value	Description
Asc	Ascending order for query result.
Desc	Descending order for query result.

## SubscriptionAccessDecision

Object

Access Decision for each Subscription

[Expand table](#)

Name	Type	Description
decision	<a href="#">AccessDecisionEnum</a>	Access decision to subscription
denialReason	string	The reason why access request got denied
subscriptionId	string	Id of Subscription

## TopItemsMonthlySummaryReportQueryFilter

Object

Query filter parameter to configure TopItemsMonthlySummaryReport queries.

[Expand table](#)

Name	Type	Description

carbonScopeList	<a href="#">EmissionScopeEnum[]</a>	List of carbon emission scopes. Required. Accepts one or more values from EmissionScopeEnum (e.g., Scope1, Scope2, Scope3) in list form. The output will include the total emissions for the specified scopes.
categoryType	<a href="#">CategoryTypeEnum</a>	Specifies the category type to retrieve top-emitting items, aggregated by month. See supported types in CategoryTypeEnum.
dateRange	<a href="#">DateRange</a>	The start and end dates for carbon emissions data. Required. For ItemDetailsReport and TopItemsSummaryReport, only one month of data is supported at a time, so start and end dates should be equal within DateRange (e.g., start: 2024-06-01 and end: 2024-06-01).
locationList	<a href="#">string[]</a>	List of locations(Azure Region Display Name) for carbon emissions data, with each location specified in lowercase (e.g., 'east us'). Optional. You can use the command 'az account list-regions -o table' to find Azure Region Display Names.
reportType	<a href="#">string:</a>  <a href="#">TopItemsMonthlySummaryReport</a>	The ReportType requested for carbon emissions data. Required. Specifies how data is aggregated and displayed in the output, as explained in the ReportTypeEnum.
resourceGroupUrlList	<a href="#">string[]</a>	List of resource group URLs for carbon emissions data. Optional. Each URL must follow the format '/subscriptions/{subscriptionId}/resourcegroups/{resourceGroup}', and should be in all lowercase.
resourceTypeList	<a href="#">string[]</a>	List of resource types for carbon emissions data. Optional. Each resource type should be specified in lowercase, following the format 'microsoft.{service}/{resourceType}', e.g., 'microsoft.storage/storageaccounts'.
subscriptionList	<a href="#">string[]</a>	List of subscription IDs for which carbon emissions data is requested. Required. Each subscription ID should be in lowercase format. The max length of list is 100.
topItems	<a href="#">integer (int32)</a> minimum: 1 maximum: 10	The number of top items to return, based on emissions. Must be between 1 and 10.

## TopItemsSummaryReportQueryFilter

Object

Query filter parameter to configure TopItemsSummaryReport queries.

[Expand table](#)

Name	Type	Description
carbonScopeList	<a href="#">EmissionScopeEnum[]</a>	List of carbon emission scopes. Required. Accepts one or more values from EmissionScopeEnum (e.g., Scope1, Scope2, Scope3) in list form. The output will include the total emissions for the specified scopes.
categoryType	<a href="#">CategoryTypeEnum</a>	Specifies the category type for which to retrieve top-emitting items. See supported values defined in CategoryTypeEnum.
dateRange	<a href="#">DateRange</a>	The start and end dates for carbon emissions data. Required. For ItemDetailsReport and TopItemsSummaryReport, only one month of data is supported at a time, so start and end dates should be equal within DateRange (e.g., start: 2024-06-01 and end: 2024-06-01).
locationList	<a href="#">string[]</a>	List of locations(Azure Region Display Name) for carbon emissions data, with each location specified in lowercase (e.g., 'east us'). Optional. You can use the command 'az account list-regions -o table' to find Azure Region Display Names.
reportType	<a href="#">string:</a>  <a href="#">TopItemsSummaryReport</a>	The ReportType requested for carbon emissions data. Required. Specifies how data is aggregated and displayed in the output, as explained in the ReportTypeEnum.
resourceGroupUrlList	<a href="#">string[]</a>	List of resource group URLs for carbon emissions data. Optional. Each URL must follow the format '/subscriptions/{subscriptionId}/resourcegroups/{resourceGroup}', and should be in all lowercase.
resourceTypeList	<a href="#">string[]</a>	List of resource types for carbon emissions data. Optional. Each resource type should be specified in lowercase, following the format 'microsoft.{service}/{resourceType}', e.g., 'microsoft.storage/storageaccounts'.
subscriptionList	<a href="#">string[]</a>	List of subscription IDs for which carbon emissions data is requested. Required. Each subscription ID should be in lowercase format. The max length of list is 100.
topItems	<a href="#">integer (int32)</a> minimum: 1 maximum: 10	The number of top items to return, based on emissions. This value must be between 1 and 10.