



# GRIDSERVE – OPEN DATA

## Public Charge Point Regulations

### Open Data – API Developer Documentation

## Introduction

The GRIDSERVE Open Data API enables developers to access public information about GRIDSERVE's electric vehicle charging network. This API adheres to the OCPI (Open Charge Point Interface) standard, allowing seamless integration and access to data about charging locations, tariffs, and more. Each API request requires the `ec-subscription-key` header for authentication.

This document describes the available endpoints, including example requests and responses, to help developers integrate with the API effectively.

The base URL for the API is <https://api.gridserve.com/ocpi/v1/>.

For example, <https://api.gridserve.com/ocpi/v1/locations>

## Endpoints

### 1. Retrieve All Locations

#### *GET /locations*

Retrieve all publicly available charging locations.

#### Headers

- ec-subscription-key: Your unique API subscription key.

#### Response Codes

- 200 OK: Successful retrieval of locations.

- 500 Internal Server Error: An error occurred on the server.

#### Example Request

```
GET /locations HTTP/1.1
Host: api.gridserve.com
ec-subscription-key: YOUR_API_KEY
```

#### Example Response

```
{
  "locations": [
    {
      "country_code": "GB",
      "party_id": "GRD",
      "id": "27b13b5e-77c1-4943-b209-d128b0fd3690",
      "publish": true,
      "name": "Example Location",
      "address": "1 Example Street",
      "city": "Example City",
      "postal_code": "EC1A 1AA",
      "country": "GBR",
      "coordinates": {
```

```
"latitude": 50.770774,  
"longitude": -126.104965  
}  
}  
]  
}
```

## 2. Retrieve Location by ID

*GET /locations/{location-id}*

Retrieve details of a specific location by its unique ID.

### Headers

- ec-subscription-key: Your unique API subscription key.
- location-id: Unique identifier for the location.

### Response Codes

- 200 OK: Successful retrieval of the location.
- 404 Not Found: Location ID does not exist.
- 500 Internal Server Error: An error occurred on the server.

### Example Request

```
GET /locations/27b13b5e-77c1-4943-b209-d128b0fd3690 HTTP/1.1  
Host: api.gridserve.com  
ec-subscription-key: YOUR_API_KEY
```

### Example Response

```
{  
  "location": {  
    "country_code": "GB",  
    "party_id": "GRD",  
    "id": "27b13b5e-77c1-4943-b209-d128b0fd3690",  
    "publish": true,  
    "name": "Example Location",  
    "address": "1 Example Street",  
    "city": "Example City",  
    "postal_code": "EC1A 1AA",  
    "country": "GBR",  
    "coordinates": {  
      "latitude": 50.770774,  
      "longitude": -126.104965  
    }  
  }  
}
```

## 3. Retrieve All Tariffs

*GET /tariffs*

Retrieve all available charging tariffs.

### Headers

- ec-subscription-key: Your unique API subscription key.

### Response Codes

- 200 OK: Successful retrieval of tariffs.

- 500 Internal Server Error: An error occurred on the server.

### Example Request

```
GET /tariffs HTTP/1.1
Host: api.gridserve.com
ec-subscription-key: YOUR_API_KEY
```

### Example Response

```
{
  "tariffs": [
    {
      "country_code": "GB",
      "party_id": "GRD",
      "id": "GSI",
      "currency": "GBP",
      "type": "AD_HOC_PAYMENT",
      "elements": [
        {
          "price_components": [
            {
              "type": "ENERGY",
              "price": 0.183,
              "vat": 20,
              "step_size": 1
            }
          ]
        }
      ]
    }
  ]
}
```