

1. API for datastream values

Energydata.dk has an API which can be used for retrieving the latest value or a values in a time span for one or more data streams (property ids). The API is to be in programs / script that shall fetch data from energydata.dk. In order to use the script a token must be supplied, please see the energydata.dk user guide for how to create a token.

1.1 API description

```
http:GET: /api/v1/datastreams/values
```

Retrieve values for one or more properties.

The properties which have their values retrieved depend on the query parameter `ids`. This should be a comma-separated list of datastream IDs.

The resource can be used to retrieve either the latest values, or values which correspond to a timespan.

Please note that this resource does not return JSON for successful requests. In these cases, response data is streamed back to the client as CSV. But you should still specify `Accept: application/json` in the header to ensure errors are returned to the client as JSON.

Parameters for the API are:

- `ids`: List of property IDs to export.
- `from`: ISO8601 formatted date.
- `to`: ISO8601 formatted date.
- `latest`: Boolean, true if present

1.2 Example request: Retrieving latest values

To retrieve the latest values for the given properties, the query parameter `latest` must be present.

```
GET /api/v1/datastreams/values?ids=65603,65607,65863&latest=true HTTP/1.1
Host: admin.energydata.dk
Accept: application/json
Authorization: Bearer <your-token>
```

1.2.1 Example response

```
HTTP/1.1 200 OK
Content-Description: File Transfer
Content-Disposition: attachment; filename=data.csv
Content-Type: text/csv; charset=UTF-8
Transfer-Encoding: chunked

65603,1547043555943,25.04
65607,1547043557698,25.12
65863,1544089165888,24
```

To retrieve all values for the given properties inside a timespan, the query parameters `from` and `to` must be present. These must be formatted as `YYYY-mm-ddTHH:MM:SS`, e.g. `2018-02-01T12:30:00`. Note that both `from` and `to` are inclusive.

1.3 Example request: Retrieving values for a given timespan

```
GET /api/v1/datastreams/values?ids=65603,65607,65863&from=2018-02-01T00:00:00&to=2018-02-02T00:00:00 HTTP/1.1
Host: admin.energydata.dk
Accept: application/json
Authorization: Bearer <your-token>
```

1.3.1 Example response

```
HTTP/1.1 200 OK
Content-Description: File Transfer
Content-Disposition: attachment; filename=data.csv
Content-Type: text/csv; charset=UTF-8
Transfer-Encoding: chunked

65607,1517443389806,25.12
65607,1517443449746,25.12
65607,1517443509696,25.12
65607,1517443569646,25.12
65607,1517443629586,25.12
65607,1517443689537,25.12
65863,1517443749495,25.12
65863,1517443809416,25.12
65863,1517443869366,24.04
65863,1517443929309,24.04
65863,1517443989256,24.04
65863,1517444049233,24.04
65863,1517444109146,24.04
65603,1517443389806,25.12
65603,1517443449746,25.12
65603,1517443509696,25.12
65603,1517443569646,25.12
65603,1517443629586,25.12
65603,1517443689537,25.12
```