

DH Sandbox API documentation for TSO

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1 Documentation version history

The table below provides information on document version history:

Version	Date	Description
1.0.0	2023-11-20	Initial document version.
1.0.1	2024-02-06	Attribute name change from generationCategory to generationType.
1.0.2	2025-05-23	- Added notes for the "dateFrom" and "dateTo" attributes in method: - POST /gateway/electricity-transmission-system-operator/order/{balanceOrderType}, example 1-2

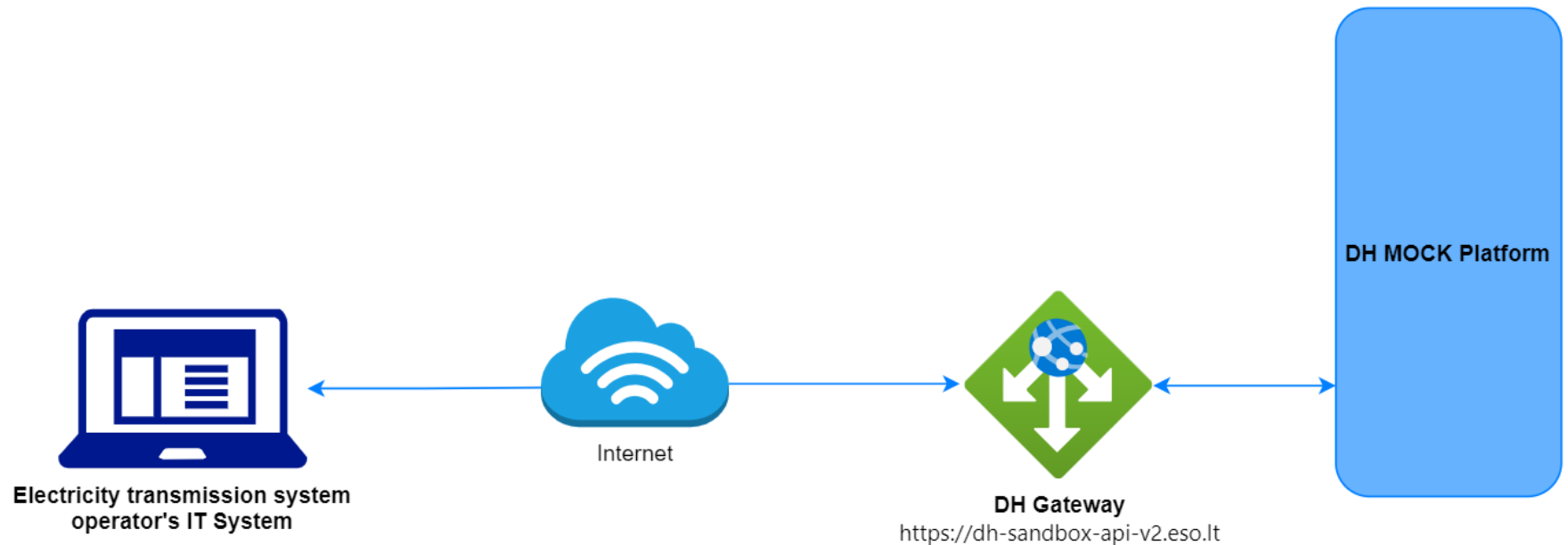
Note: Changes in table marked in white are already deployed, marked in green will be deployed in near future.

2 Preface

The Common Data Exchange Platform (hereinafter referred as *DH Platform*) Gateway is a component enabling electricity transmission system operator (TSO) to directly access DH Platform from within their IT systems and thus helps perform their activities more efficiently.

DH Gateway provides open standards-based interfaces allowing electricity transmission system operator themselves (or with outside assistance) integrate their IT systems with DH Platform.

This document provides technical information on DH Gateway interfaces which is needed to integrate electricity transmission system operator's information systems with DH Platform.



3 Environments

There are two DH Gateway environments the electricity transmission system operator might access:

- “Sandbox” environment
- Production environment

Environment	Swagger Link	WEB Interface
Production	https://dh-api.eso.lt/swagger-ui.html	https://datahub.eso.lt/
Sandbox	https://dh-sandbox-api-v2.eso.lt/swagger-ui.html#/	-

4 Digital certificates

In both the testing and production environments of the DH Gateway component, the identity of the electricity transmission system operator is established using a TOKEN, which the electricity transmission system operator's information system must provide each time the DH Gateway network service is called.

To get started:

1. The DSO responsible person sends the JWT key (JSON Web Token) to be used with each request to the DH API.
2. To make requests to the DH Gateway API - the TOKEN submission in the case of curl takes place.

5 Datahub Gateway API documentation

This document section describes the technical DH API documentation, which provides descriptions of API methods, request and response JSON data model structure, data validation rules, error handling, and other related information.

5.1 Order controller

5.1.1 POST /gateway/electricity-transmission-system-operator/order/list

Resource description	
Definition	Method will return list of the orders.
Detailed description of method in API documentation for TSO	POST /gateway/electricity-transmission-system-operator/order/list
Request URL	https://dh-sandbox-api-v2.eso.lt/swagger-ui.html

Possible request 1	Possible response data 1
<pre>{ "orderId": null, "orderTypes": ["balance-by-generation-type"], "submittedDateFrom": null, "submittedDateTo": null, "dateFrom": null, "dateTo": null, "latestStatuses": [], "orderParametersSearch": null }</pre>	<pre>[{ "orderId": 100050, "orderType": "balance-by-generation-type", "submittedDate": "2023-11-06T18:10:11.282", "dateFrom": "2023-10-01", "dateTo": "2023-10-01", "orderParameters": "{\"interval\":\"HOURLY\"}", "latestStatus": "IV", "statusDate": "2023-10-24T15:32:52.578", "expireDate": "2122-03-02T11:01:00" }]</pre>

<pre> }</pre>	<pre> }]</pre>
Possible request 2	Possible response data 2
<pre> { "orderId": null, "orderTypes": null, "submittedDateFrom": null, "submittedDateTo": null, "dateFrom": null, "dateTo": null, "latestStatuses": ["IV"], "orderParametersSearch": null }</pre>	<pre> [{ "orderId": 100050, "orderType": "balance-by-generation-type", "submittedDate": "2023-11-06T18:10:11.282", "dateFrom": "2023-10-01", "dateTo": "2023-10-01", "orderParameters": "{\"interval\":\"HOURL\"}", "latestStatus": "IV", "statusDate": "2023-10-24T15:32:52.578", "expireDate": "2122-03-02T11:01:00" }, { "orderId": 100051, "orderType": "balance-by-supplier", "submittedDate": "2023-11-06T18:10:11.282", "dateFrom": "2023-10-01", "dateTo": "2023-10-01", "orderParameters": "{\"interval\":\"HOURL\"}", "latestStatus": "IV", "statusDate": "2023-10-24T15:32:52.578", "expireDate": "2122-03-02T11:01:00" }]</pre>

5.1.2 POST /gateway/electricity-transmission-system-operator/order/{balanceOrderType}

Resource description	
Definition	Method will order the chosen report.

Detailed description of method in API documentation for TSO	POST /gateway/electricity-transmission-system-operator/order/{balanceOrderType}
Request URL	https://dh-sandbox-api-v2.eso.lt/swagger-ui.html

Possible request 1	Possible response data 1
URL parameters: balanceOrderType – balance-by-generation-type <pre>{ "dateFrom": "[Any past date not older than 36 months]", "dateTo": "[The value must not exceed 1 accounting period from the dateFrom date]", "interval": "HOUR" }</pre>	<pre>{ "orderId": [a new Id is generated] }</pre>
Possible request 2	Possible response data 2
URL parameters: balanceOrderType – balance-by-supplier <pre>{ "dateFrom": "[Any past date not older than 36 months]", "dateTo": "[The value must not exceed 1 accounting period from the dateFrom date]", "interval": "HOUR" }</pre>	<pre>{ "orderId": [a new Id is generated] }</pre>

5.1.3 GET /gateway/electricity-transmission-system-operator/order/{orderId}/balance-by-generation-type

Resource description	
Definition	The method for receive the order report "Balance by generation type".
Detailed description of method in API documentation for TSO	GET /gateway/electricity-transmission-system-operator/order/{orderId}/balance-by-generation-type
Request URL	https://dh-sandbox-api-v2.eso.lt/swagger-ui.html

Possible request 1	Possible response data 1	Possible response data 1 (continuation)
URL parameters: orderId - 100050	<pre>[{ "generationType": "B", "timeSeriesData": [{ "intervalDateTime": "2023-10-01T00:00:00+03:00", "valueOfGeneration": 35.008 }, { "intervalDateTime": "2023-10-01T01:00:00+03:00", "valueOfGeneration": 32.777 }, { "intervalDateTime": "2023-10-01T02:00:00+03:00", "valueOfGeneration": 32.478 }, { "intervalDateTime": "2023-10-01T03:00:00+03:00", "valueOfGeneration": 32.563 }] }]</pre>	<pre>{ "generationType": "S", "timeSeriesData": [{ "intervalDateTime": "2023-10-01T00:00:00+03:00", "valueOfGeneration": 0.01 }, { "intervalDateTime": "2023-10-01T01:00:00+03:00", "valueOfGeneration": 0.011 }, { "intervalDateTime": "2023-10-01T02:00:00+03:00", "valueOfGeneration": 0.011 }, { "intervalDateTime": "2023-10-01T03:00:00+03:00", "valueOfGeneration": 0.01 }] }</pre>

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	<pre> }, { "intervalDateTime": "2023-10-01T17:00:00+03:00", "valueOfGeneration": 38.681 }, { "intervalDateTime": "2023-10-01T18:00:00+03:00", "valueOfGeneration": 4.907 }, { "intervalDateTime": "2023-10-01T19:00:00+03:00", "valueOfGeneration": 0.086 }, { "intervalDateTime": "2023-10-01T20:00:00+03:00", "valueOfGeneration": 0.069 }, { "intervalDateTime": "2023-10-01T21:00:00+03:00", "valueOfGeneration": 0.06 }, { "intervalDateTime": "2023-10-01T22:00:00+03:00", "valueOfGeneration": 0.042 }, { "intervalDateTime": "2023-10-01T23:00:00+03:00", "valueOfGeneration": 0.038 }] }, { "generationType": "V", "timeSeriesData": [{ "intervalDateTime": "2023-10-01T00:00:00+03:00", "valueOfGeneration": 57.331 }, {</pre>	<pre> { "intervalDateTime": "2023-10-01T17:00:00+03:00", "valueOfGeneration": 2.439 }, { "intervalDateTime": "2023-10-01T18:00:00+03:00", "valueOfGeneration": 2.635 }, { "intervalDateTime": "2023-10-01T19:00:00+03:00", "valueOfGeneration": 3.323 }, { "intervalDateTime": "2023-10-01T20:00:00+03:00", "valueOfGeneration": 3.408 }, { "intervalDateTime": "2023-10-01T21:00:00+03:00", "valueOfGeneration": 3.514 }, { "intervalDateTime": "2023-10-01T22:00:00+03:00", "valueOfGeneration": 2.824 }, { "intervalDateTime": "2023-10-01T23:00:00+03:00", "valueOfGeneration": 2.464 }] }, { "generationType": "A", "timeSeriesData": [{ "intervalDateTime": "2023-10-01T00:00:00+03:00", "valueOfGeneration": 0.234 }, {</pre>
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	<pre> { "intervalDateTime": "2023-10-01T01:00:00+03:00", "valueOfGeneration": 50.834 }, { "intervalDateTime": "2023-10-01T02:00:00+03:00", "valueOfGeneration": 53.847 }, { "intervalDateTime": "2023-10-01T03:00:00+03:00", "valueOfGeneration": 52.383 }, { "intervalDateTime": "2023-10-01T04:00:00+03:00", "valueOfGeneration": 48.456 }, { "intervalDateTime": "2023-10-01T05:00:00+03:00", "valueOfGeneration": 44.302 }, { "intervalDateTime": "2023-10-01T06:00:00+03:00", "valueOfGeneration": 41.293 }, { "intervalDateTime": "2023-10-01T07:00:00+03:00", "valueOfGeneration": 37.848 }, { "intervalDateTime": "2023-10-01T08:00:00+03:00", "valueOfGeneration": 39.035 }, { "intervalDateTime": "2023-10-01T09:00:00+03:00", "valueOfGeneration": 36.368 }, { "intervalDateTime": "2023-10-01T10:00:00+03:00", </pre>	<pre> "intervalDateTime": "2023-10-01T01:00:00+03:00", "valueOfGeneration": 0.246 }, { "intervalDateTime": "2023-10-01T02:00:00+03:00", "valueOfGeneration": 0.231 }, { "intervalDateTime": "2023-10-01T03:00:00+03:00", "valueOfGeneration": 0.231 }, { "intervalDateTime": "2023-10-01T04:00:00+03:00", "valueOfGeneration": 0.241 }, { "intervalDateTime": "2023-10-01T05:00:00+03:00", "valueOfGeneration": 0.255 }, { "intervalDateTime": "2023-10-01T06:00:00+03:00", "valueOfGeneration": 0.256 }, { "intervalDateTime": "2023-10-01T07:00:00+03:00", "valueOfGeneration": 0.248 }, { "intervalDateTime": "2023-10-01T08:00:00+03:00", "valueOfGeneration": 0.236 }, { "intervalDateTime": "2023-10-01T09:00:00+03:00", "valueOfGeneration": 0.244 }, { "intervalDateTime": "2023-10-01T10:00:00+03:00", "valueOfGeneration": 0.248 </pre>
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	<pre>"valueOfGeneration": 33.645 }, { "intervalDateTime": "2023-10-01T11:00:00+03:00", "valueOfGeneration": 42.467 }, { "intervalDateTime": "2023-10-01T12:00:00+03:00", "valueOfGeneration": 53.795 }, { "intervalDateTime": "2023-10-01T13:00:00+03:00", "valueOfGeneration": 54.679 }, { "intervalDateTime": "2023-10-01T14:00:00+03:00", "valueOfGeneration": 53.358 }, { "intervalDateTime": "2023-10-01T15:00:00+03:00", "valueOfGeneration": 57.598 }, { "intervalDateTime": "2023-10-01T16:00:00+03:00", "valueOfGeneration": 53.187 }, { "intervalDateTime": "2023-10-01T17:00:00+03:00", "valueOfGeneration": 56.669 }, { "intervalDateTime": "2023-10-01T18:00:00+03:00", "valueOfGeneration": 47.284 }, { "intervalDateTime": "2023-10-01T19:00:00+03:00", "valueOfGeneration": 37.014 }, },</pre>	<pre>}, { "intervalDateTime": "2023-10-01T11:00:00+03:00", "valueOfGeneration": 0.238 }, { "intervalDateTime": "2023-10-01T12:00:00+03:00", "valueOfGeneration": 0.253 }, { "intervalDateTime": "2023-10-01T13:00:00+03:00", "valueOfGeneration": 0.256 }, { "intervalDateTime": "2023-10-01T14:00:00+03:00", "valueOfGeneration": 0.222 }, { "intervalDateTime": "2023-10-01T15:00:00+03:00", "valueOfGeneration": 0.286 }, { "intervalDateTime": "2023-10-01T16:00:00+03:00", "valueOfGeneration": 0.251 }, { "intervalDateTime": "2023-10-01T17:00:00+03:00", "valueOfGeneration": 0.255 }, { "intervalDateTime": "2023-10-01T18:00:00+03:00", "valueOfGeneration": 0.234 }, { "intervalDateTime": "2023-10-01T19:00:00+03:00", "valueOfGeneration": 0.208 }, {</pre>
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	<pre> { "intervalDateTime": "2023-10-01T20:00:00+03:00", "valueOfGeneration": 33.605 }, { "intervalDateTime": "2023-10-01T21:00:00+03:00", "valueOfGeneration": 30.564 }, { "intervalDateTime": "2023-10-01T22:00:00+03:00", "valueOfGeneration": 30.719 }, { "intervalDateTime": "2023-10-01T23:00:00+03:00", "valueOfGeneration": 28.929 }] }, </pre>	<pre> "intervalDateTime": "2023-10-01T20:00:00+03:00", "valueOfGeneration": 0.241 }, { "intervalDateTime": "2023-10-01T21:00:00+03:00", "valueOfGeneration": 0.239 }, { "intervalDateTime": "2023-10-01T22:00:00+03:00", "valueOfGeneration": 0.23 }, { "intervalDateTime": "2023-10-01T23:00:00+03:00", "valueOfGeneration": 0.246 }] } </pre>
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5.1.4 GET /gateway/electricity-transmission-system-operator/order/{orderId}/balance-by-supplier

Resource description	
Definition	The method for receive the order report "Balance by supplier".
Detailed description of method in API documentation for TSO	GET /gateway/electricity-transmission-system-operator/order/{orderId}/balance-by-supplier
Request URL	https://dh-sandbox-api-v2.eso.lt/swagger-ui.html

Possible request 1	Possible response data 1
URL parameters: • orderId - 100051	<pre>[{ "independentSupplierName": "Tiekējas X", "independentSupplierEic": "EIC-code-XXXX", "timeSeriesData": [{ "intervalDateTime": "2023-10-01T00:00:00+03:00", "valueOfGeneration": 2.818, "valueOfConsumption": 1.847 }, { "intervalDateTime": "2023-10-01T01:00:00+03:00", "valueOfGeneration": 1.873, "valueOfConsumption": 1.925 }, { "intervalDateTime": "2023-10-01T02:00:00+03:00", "valueOfGeneration": 1.786, "valueOfConsumption": 1.875 }, { "intervalDateTime": "2023-10-01T03:00:00+03:00", "valueOfGeneration": 1.666, "valueOfConsumption": 1.875 }, { "intervalDateTime": "2023-10-01T04:00:00+03:00", "valueOfGeneration": 1.548, "valueOfConsumption": 1.854 }, { "intervalDateTime": "2023-10-01T05:00:00+03:00", "valueOfGeneration": 1.581, "valueOfConsumption": 1.848 }] }]</pre>

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},
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  "valueOfGeneration": 3.000,
  "valueOfConsumption": 2.807
},
{
  "intervalDateTime": "2023-10-01T08:00:00+03:00",
  "valueOfGeneration": 1.443,
  "valueOfConsumption": 2.147
},
{
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  "valueOfGeneration": 1.513,
  "valueOfConsumption": 1.171
},
{
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  "valueOfGeneration": 2.666,
  "valueOfConsumption": 1.160
},
{
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  "valueOfGeneration": 3.659,
  "valueOfConsumption": 2.156
},
{
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  "valueOfGeneration": 4.087,
  "valueOfConsumption": 3.165
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{
  "intervalDateTime": "2023-10-01T13:00:00+03:00",
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  "valueOfConsumption": 2.142
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```
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  "valueOfConsumption": 2.194
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  "valueOfGeneration": 4.079,
  "valueOfConsumption": 2.714
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  "valueOfConsumption": 0.262
},
{
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  "valueOfConsumption": 0.309
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  "valueOfGeneration": 1.607,
  "valueOfConsumption": 0.352
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  "valueOfGeneration": 0.848,
  "valueOfConsumption": 0.329
},
{
  "intervalDateTime": "2023-10-01T20:00:00+03:00",
  "valueOfGeneration": 0.837,
  "valueOfConsumption": 0.319
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