

NRGSTREAM API

USER GUIDE 2023

COMMON USAGE STYLE GUIDE

Contents

PURPOSE	3
Host Name	3
Geography	3
Background Technology	3
Request Limit	3
Response Format	3
HTTP REQUEST INFORMATION	4
Get BearerToken	4
Query Parameters	5
ReleaseToken	5
Get StreamDataFilters	6
Get StreamDataUrls	8
Query Parameters	10
Get StreamDataOptions	11
Query Parameters	16
Get StreamData	17
Query Parameters	19
Get ListGroupExtracts	20
Get GroupExtractHeader	23
Get GroupExtract	25
Query Parameters	25
Get StreamList	26
Get FolderList	27

Python Samples	28
-----------------------------	-----------

PURPOSE

This common usage and style guide describes the consistent structure, types, language support and terminology used by the NRGSTREAM API. This document provides the standards for the construction of each API call for customer use.

Host Name

api.nrgstream.com

Geography

Worldwide

Background Technology

This API is a REST-based web service.

Request Limit

Submit up to 5 data requests per second with a single token.

Response Format

The NRGSTREAM API can return either CSV or JSON responses.

HTTP REQUEST INFORMATION

The following HTTP requests are used to access the NRGSTREAM API.

HTTP Request	Description
Get BearerToken	<p>Request type: POST</p> <p>URI: api.nrgstream.com/api/security/token</p> <p>Post data: grant_type=password&username=<username>&password=<password></p> <p>Sample Response: HTTP code: 200 Headers: Content-Type: application/json;charset=UTF-8 Response Data: { "access_token": "oQegeWPzVdktYbYuCLmfxftasgboU5OwbOT8Ef2lpKgrae6GCK7irxnf15C5VSwTQRm1M_xdb_1LD707K2pInKJP3avUfN7LaSgB YZGQ0qLgfEG60ltz_DRaXrEIP1qiHpKJqrQOI3bwL9ZFZR7yRfW3h9_ubJnFjjADx546tZQ8dff6ak_8nVWC8eAmWUfDxYssqNY0s GhaZNDzPalWTc5p4iY6oURmiK1ZENnfXph3f-ZNZKnA8LwaGP-KO7da6NeK_Jq4LCLBoLY-nN7ztYJKIEc4z1x_lhBIQu5aZk", "token_type": "bearer", "expires_in": 299 }</p>

Query Parameters

The following represent general query parameters for specific API requests.

Parameter	Name	Description	Example
username	username	valid NRGSTREAM Client Access account username required	johndoe
password	password	valid NRGSTREAM Client Access account password required	John1234

HTTP Request	Description
ReleaseToken	<p>Request type: DELETE</p> <p>Request headers: Authorization: mandatory, must be in the format of "Bearer <valid access_token from Get Bearer Token</p> <p>URI: api.nrgstream.com/api/ReleaseToken</p> <p>Sample Response: HTTP code: 200</p>

HTTP Request	Description
Get StreamDataFilters	<p>Request type: GET</p> <p>Request headers: Authorization: mandatory, must be in the format of "Bearer <valid access_token from Get Bearer Token Accept: optional, when "text/csv": response will be in CSV format when omitted (or anything else): response will be in JSON format</p> <p>URI: api.nrgstream.com/api/StreamDataUrlFilters</p> <p>Sample text/csv Response: HTTP code: 200 Headers: Content-Disposition: attachment; filename=streamDataUrlFilters<MMM-dd-yyyy_HH_mm_ss>.csv Content-Type: text/csv; charset=utf-8 Response Data: filterName,value,description commodityCode,COAL,Coal commodityCode,GAS,Nat Gas commodityCode,OIL,Oil commodityCode,OTHER,Other commodityCode,POWER,Power commodityCode,RFUEL,Refined Fuels dataTypeCode,ANCIL,Ancillary Services ...<plus 47 records></p> <p>Sample application/json Response: HTTP code: 200 Headers: Content-Disposition: attachment; filename=streamDataUrlFilters<MMM-dd-yyyy_HH_mm_ss>.json Content-Type: application/json; charset=utf-8 Response Data: [{ "filterName": "commodityCode", "value": "COAL", "description": "Coal"</p>

	<pre> }, { "filterName": "commodityCode", "value": "GAS", "description": "Nat Gas" }, { "filterName": "commodityCode", "value": "OIL", "description": "Oil" }, { "filterName": "commodityCode", "value": "OTHER", "description": "Other" }, { "filterName": "commodityCode", "value": "POWER", "description": "Power" }, { "filterName": "commodityCode", "value": "RFUEL", "description": "Refined Fuels" }, { "filterName": "dataTypeCode", "value": "ANCIL", "description": "Ancillary Services" }, ...<plus 47 records>] </pre>
--	--

HTTP Request	Description
Get StreamDataUrls	<p>Request type: GET</p> <p>Request headers: Authorization: mandatory, must be in the format of "Bearer <valid access_token from Get Bearer Token> Accept: optional, when "text/csv": response will be in CSV format when omitted (or anything else): response will be in JSON format</p> <p>URI: api.nrgstream.com/api/StreamDataUrl</p> <p>Query params: commodityCode: zero or more comma separated codes (from Get StreamDataFilters) dataTypeCode: zero or more comma separated codes (from Get StreamDataFilters) isoCode: zero or more comma separated codes (from Get StreamDataFilters) nercAreaCode: zero or more comma separated codes (from Get StreamDataFilters) regionCode: zero or more comma separated codes (from Get StreamDataFilters)</p> <p>Sample text/csv Response: HTTP code: 200 Headers: Content-Disposition: attachment; filename=streamDataUrls<MMM-dd-yyyy_HH_mm_ss>.csv Content-Type: text/csv; charset=utf-8 Response Data: # Request Path and Query: /api/StreamDataUrl?userName=apitest&folderId=0&dataTypeCode=SUPPL&regionCode=EAST,WEST # Time Generated (UTC): 2018-09-18T20:54:30.1453346Z # Record Count: 550 # Base Url: https://api.nrgstream.com/api # User Name: apitest streamId,streamName,apiUrl 569,AB - 6D Agg Supply,https://api.nrgstream.com/api/StreamData/569?fromDate=09/18/2018&toDate=09/18/2018 129796,AB - AB Newsprint,https://api.nrgstream.com/api/StreamData/129796?fromDate=09/18/2018&toDate=09/18/2018 ...<plus 548 records></p>

Sample application/json Response:

HTTP code: 200

Headers:

Content-Disposition: attachment; filename=streamDataUrls<MMM-dd-yyyy_HH_mm_ss>.json

Content-Type: application/json; charset=utf-8

Response Data:

```
{
  "metaData": {
    "requestPathAndQuery":
"/api/StreamDataUrl?userName=apitest&folderId=0&dataTypeId=SUPPL&regionCode=EAST,WEST",
    "timeGenerated": "2018-09-18T20:58:35.5446307Z",
    "recordCount": "550",
    "baseUrl": "https://api.nrgstream.com/api",
    "userName": "apitest "
  },
  "streamDataUrls": [
    {
      "streamId": "569",
      "streamName": "AB - 6D Agg Supply",
      "apiUrl":
"https://api.nrgstream.com/api/StreamData/569?fromDate=09/18/2018&toDate=09/18/2018"
    },
    {
      "streamId": "129796",
      "streamName": "AB - AB Newsprint",
      "apiUrl":
"https://api.nrgstream.com/api/StreamData/129796?fromDate=09/18/2018&toDate=09/18/2018"
    },
    ...<plus 548 records>
  ]
}
```

Query Parameters

The following represent general query parameters for specific API requests.

Parameter	Name	Description	Example
commodityCode	commodityCode	zero or more comma separated codes	COAL
dataTypeCode	dataTypeCode	zero or more comma separated codes	PRICE
isoCode	isoCode	zero or more comma separated codes	ERCOT
nercAreaCode	nercAreaCode	zero or more comma separated codes	WECC
regionCode	regionCode	zero or more comma separated codes	EAST

HTTP Request	Description
Get StreamDataOptions	<p>Request type: GET</p> <p>Request headers: Authorization: mandatory, must be in the format of "Bearer <valid access_token from Get Bearer Token> Accept: optional, when "text/csv": response will be in CSV format when omitted (or anything else): response will be in JSON format</p> <p>URI: api.nrgstream.com/api/StreamDataOptions</p> <p>Query params: streamId: the streamId code for the desired stream</p> <p>Sample text/csv Response: HTTP code: 200 Headers: Content-Disposition: attachment; filename=streamDataOptions<streamId><MMM-dd-yyyy_HH_mm_ss>.csv Content-Type: text/csv; charset=utf-8 Response Data: Cache-Control: no-cache Pragma: no-cache Content-Length: 2624 Content-Type: text/csv; charset=utf-8 Expires: -1 Server: Microsoft-IIS/10.0 X-AspNet-Version: 4.0.30319 X-Powered-By: ASP.NET Date: Mon, 20 Jan 2020 20:07:53 GMT</p> <pre>[{"dataOption": "2X16H722P1440", "description": "2X16 HE7-HE22 Peak Weekends "}, {"dataOption": "2X16H722P1440NH", "description": "2X16 HE7-HE22 Peak WKND + Hol."}, {"dataOption": "2X16H722P60", "description": "2X16 HE7-HE22 Peak Weekends "}, {"dataOption": "2X16H722P60NH", "description": "2X16 HE7-HE22 Peak WKND + Hol."}, {"dataOption": "2X16H823P1440", "description": "2X16 HE8-HE23 Peak Weekends "}, {"dataOption": "2X16H823P60", "description": "2X16 HE8-HE23 Peak Weekends "}]</pre>

	<pre> {"dataOption":"2X8H236O1440","description":"2X8 HE23-HE6 Off Peak Weekends "}, {"dataOption":"2X8H236O60","description":"2X8 HE23-HE6 Off Peak Weekends "}, {"dataOption":"2X8H247O1440","description":"2X8 HE24-HE7 Off Peak Weekends "}, {"dataOption":"2X8H247O60","description":"2X8 HE24-HE7 Off Peak Weekends "}, {"dataOption":"5X16H722P1440","description":"5X16 HE7-HE22 Peak"}, {"dataOption":"5X16H722P60","description":"5X16 HE7-HE22 Peak"}, {"dataOption":"5X16H823P1440","description":"5X16 HE8-HE23 Peak "}, {"dataOption":"5X16H823P60","description":"5X16 HE8-HE23 Peak "}, {"dataOption":"5X8H236O1440","description":"5X8 HE23-HE6 Off Peak + Weekend"}, {"dataOption":"5X8H236O60","description":"5X8 HE23-HE6 Off Peak + Weekend"}, {"dataOption":"5X8H247O1440","description":"5X8 HE24-HE7 Off Peak + Weekend"}, {"dataOption":"5X8H247O60","description":"5X8 HE24-HE7 Off Peak + Weekend"}, {"dataOption":"6X16H722P1440","description":"6X16 HE7-HE22 Peak"}, {"dataOption":"6X16H722P60","description":"6X16 HE7-HE22 Peak"}, {"dataOption":"6X16H823P1440","description":"6X16 HE8-HE23 Peak"}, {"dataOption":"6X16H823P60","description":"6X16 HE8-HE23 Peak"}, {"dataOption":"6X8H236O1440","description":"6X8 HE23-HE6 Off Peak + Sun"}, {"dataOption":"6X8H236O60","description":"6X8 HE23-HE6 Off Peak + Sun"}, {"dataOption":"6X8H247O1440","description":"6X8 HE24-HE7 Off Peak + Sun"}, {"dataOption":"6X8H247O60","description":"6X8 HE24-HE7 Off Peak + Sun"}, {"dataOption":"7X16H722P1440","description":"7X16 HE7-HE22 Peak WRAP"}, {"dataOption":"7X16H722P60","description":"7X16 HE7-HE22 Peak WRAP"}, {"dataOption":"7X16H823P1440","description":"7X16 HE8-HE23 Peak WRAP"}, {"dataOption":"7X16H823P60","description":"7X16 HE8-HE23 Peak WRAP"}, {"dataOption":"7X8H236O1440","description":"7X8 HE23-HE6 Off Peak"}, {"dataOption":"7X8H236O60","description":"7X8 HE23-HE6 Off Peak"}, {"dataOption":"7X8H247O1440","description":"7X8 HE24-HE7 Off Peak"}, {"dataOption":"7X8H247O60","description":"7X8 HE24-HE7 Off Peak"}, {"dataOption":"DAILYAVG","description":"Daily Average"}, {"dataOption":"DAILYLAH","description":"Daily Low/Avg/High"}, {"dataOption":"HRAVG","description":"Hourly Average"}]</pre> <p>Sample application/json Response: HTTP code: 200 Headers: Content-Disposition: attachment; filename=streamDataOptions<streamId><MMM-dd-yyyy_HH_mm_ss>.json Content-Type: application/json; charset=utf-8 Response Data: Cache-Control: no-cache Pragma: no-cache Content-Length: 2624 Content-Type: text/csv; charset=utf-8</p>
--	--

Expires: -1
Server: Microsoft-IIS/10.0
X-AspNet-Version: 4.0.30319
X-Powered-By: ASP.NET
Date: Mon, 20 Jan 2020 20:07:54 GMT

```
[
  {
    "dataOption": "2X16H722P1440",
    "description": "2X16 HE7-HE22 Peak Weekends "
  },
  {
    "dataOption": "2X16H722P1440NH",
    "description": "2X16 HE7-HE22 Peak WKND + Hol."
  },
  {
    "dataOption": "2X16H722P60",
    "description": "2X16 HE7-HE22 Peak Weekends "
  },
  {
    "dataOption": "2X16H722P60NH",
    "description": "2X16 HE7-HE22 Peak WKND + Hol."
  },
  {
    "dataOption": "2X16H823P1440",
    "description": "2X16 HE8-HE23 Peak Weekends "
  },
  {
    "dataOption": "2X16H823P60",
    "description": "2X16 HE8-HE23 Peak Weekends "
  },
  {
    "dataOption": "2X8H236O1440",
    "description": "2X8 HE23-HE6 Off Peak Weekends "
  },
  {
    "dataOption": "2X8H236O60",
    "description": "2X8 HE23-HE6 Off Peak Weekends "
  },
  {
    "dataOption": "2X8H247O1440",
    "description": "2X8 HE24-HE7 Off Peak Weekends "
  }
]
```

	<pre> }, { "dataOption": "2X8H247O60", "description": "2X8 HE24-HE7 Off Peak Weekends " }, { "dataOption": "5X16H722P1440", "description": "5X16 HE7-HE22 Peak" }, { "dataOption": "5X16H722P60", "description": "5X16 HE7-HE22 Peak" }, { "dataOption": "5X16H823P1440", "description": "5X16 HE8-HE23 Peak " }, { "dataOption": "5X16H823P60", "description": "5X16 HE8-HE23 Peak " }, { "dataOption": "5X8H236O1440", "description": "5X8 HE23-HE6 Off Peak + Weekend" }, { "dataOption": "5X8H236O60", "description": "5X8 HE23-HE6 Off Peak + Weekend" }, { "dataOption": "5X8H247O1440", "description": "5X8 HE24-HE7 Off Peak + Weekend" }, { "dataOption": "5X8H247O60", "description": "5X8 HE24-HE7 Off Peak + Weekend" }, { "dataOption": "6X16H722P1440", "description": "6X16 HE7-HE22 Peak" }, { "dataOption": "6X16H722P60", </pre>
--	--

	<pre> "description": "6X16 HE7-HE22 Peak" }, { "dataOption": "6X16H823P1440", "description": "6X16 HE8-HE23 Peak" }, { "dataOption": "6X16H823P60", "description": "6X16 HE8-HE23 Peak" }, { "dataOption": "6X8H236O1440", "description": "6X8 HE23-HE6 Off Peak + Sun" }, { "dataOption": "6X8H236O60", "description": "6X8 HE23-HE6 Off Peak + Sun" }, { "dataOption": "6X8H247O1440", "description": "6X8 HE24-HE7 Off Peak + Sun" }, { "dataOption": "6X8H247O60", "description": "6X8 HE24-HE7 Off Peak + Sun" }, { "dataOption": "7X16H722P1440", "description": "7X16 HE7-HE22 Peak WRAP" }, { "dataOption": "7X16H722P60", "description": "7X16 HE7-HE22 Peak WRAP" }, { "dataOption": "7X16H823P1440", "description": "7X16 HE8-HE23 Peak WRAP" }, { "dataOption": "7X16H823P60", "description": "7X16 HE8-HE23 Peak WRAP" }, { </pre>
--	---

	<pre> "dataOption": "7X8H236O1440", "description": "7X8 HE23-HE6 Off Peak" }, { "dataOption": "7X8H236O60", "description": "7X8 HE23-HE6 Off Peak" }, { "dataOption": "7X8H247O1440", "description": "7X8 HE24-HE7 Off Peak" }, { "dataOption": "7X8H247O60", "description": "7X8 HE24-HE7 Off Peak" }, { "dataOption": "DAILYAVG", "description": "Daily Average" }, { "dataOption": "DAILYLAH", "description": "Daily Low/Avg/High" }, { "dataOption": "HRAVG", "description": "Hourly Average" }] </pre>
--	--

Query Parameters

The following represent general query parameters for specific API requests.

Parameter	Name	Description	Example
streamId	streamId	the streamId code for the desired stream	92594

HTTP Request	Description
Get StreamData	<p>Request type: GET</p> <p>Request headers: Authorization: mandatory, must be in the format of "Bearer <valid access_token from Get Bearer Token Accept: optional, when "text/csv": response will be in CSV format when omitted (or anything else): response will be in JSON format</p> <p>URI: api.nrgstream.com/api/StreamData/<stream id>?fromDate=<MM/DD/YYYY>&toDate=<MM/DD/YYYY></p> <p>Query params: streamId: the streamId code for the desired stream</p> <p>Sample text/csv Response: HTTP code: 200 Headers: Content-Disposition: attachment; filename=streamData<streamId><MMM-dd-yyyy_HH_mm_ss>.csv Content-Type: text/csv; charset=utf-8 Response Data: Time Generated (UTC): 2018-09-18T21:07:08.2514171Z Stream Name: AB - AB Newsprint Stream Id: 129796 Timezone: MPT Data Interval: 5 From Date: 09/18/2018 To Date: 09/18/2018 Record Count: 182 Date/Time - Unit of Measure: MW - Unit of Measure: MW Date/Time,MW Sep 18 2018 00:00,48 Sep 18 2018 00:05,48</p>

...<plus 180 records>

Sample application/json Response:

HTTP code: 200

Headers:

Content-Disposition: attachment; filename=streamData<streamId><MMM-dd-yyyy_HH_mm_ss>.json

Content-Type: application/json; charset=utf-8

Response Data:

```
{
  "metaData": {
    "timeGenerated": "2018-09-18T21:04:15.2841847Z",
    "streamName": "AB - AB Newsprint",
    "streamId": "129796",
    "streamDescription": "Alberta AB Newsprint Supply Unit ",
    "timezone": "MPT",
    "dataInterval": "5",
    "fromDate": "09/18/2018",
    "toDate": "09/18/2018",
    "recordCount": "182",
    "userMessage": null,
    "columns": [
      {
        "name": "Date/Time",
        "unitOfMeasure": ""
      },
      {
        "name": "MW",
        "unitOfMeasure": "MW"
      }
    ]
  },
  "data": [
    [
      "Sep 18 2018 00:00",
      "48"
    ],
    [
      "Sep 18 2018 00:05",
      "48"
    ],
    ...<plus 180 records>
  ]
}
```

Example:

<https://api.nrgstream.com/api/StreamData/<streamid>?fromDate=<MM/DD/YYYY>&toDate=<MM/DD/YYYY>>

Query Parameters			
The following represent general query parameters for specific API requests.			
Parameter	Name	Description	Example
streamId	streamId	Stream ID may be obtained via TRADER using the Generate API feature or by using the HTTPS call Get StreamDataURL	221065
fromDate	fromDate	fromDate is a specific date of the format <MM/DD/YYYY> Note: if no fromDate and toDate are entered, current interval is assumed	11/21/2015
toDate	toDate	toDate is a specific date of the format <MM/DD/YYYY> Note: if no fromDate and toDate are entered, current interval is assumed	11/21/2018

HTTP Request	Description
Get ListGroupExtracts	<p>Request type: GET</p> <p>Request headers: Authorization: mandatory, must be in the format of "Bearer <valid access_token from Get Bearer Token Accept: optional, when "text/csv": response will be in CSV format when omitted (or anything else): response will be in JSON format</p> <p>URI: api.nrgstream.com/api/ListGroupExtracts</p> <p>Sample text/csv Response: HTTP code: 200 Headers: Content-Disposition: attachment; filename=ListGroupExtracts<MMM-dd-yyyy_HH_mm_ss>.csv Content-Type: text/csv; charset=utf-8</p> <p>Response Data:</p> <pre>[{"description": "CAISO HASP LMP", "filePrefix": "CAHASP"}, {"description": "PJM Hourly LMP", "filePrefix": "PJMHR"}, {"description": "MISO Hourly LMP", "filePrefix": "MISOHR"}, {"description": "ISO-NE Hourly LMP", "filePrefix": "ISONEHR"}, {"description": "NYISO Hourly LBMP", "filePrefix": "NYHR"}, {"description": "SPP Day Ahead LMP", "filePrefix": "SPPDAM"}, {"description": "CAISO DAM LMP", "filePrefix": "CADAM"}, {"description": "PJM DAM LMP", "filePrefix": "PJMDAM"}, {"description": "MISO DAM LMP", "filePrefix": "MISODAM"}, {"description": "ISO-NE DAM LMP", "filePrefix": "ISONEDAM"}, {"description": "NYISO DAM LBMP", "filePrefix": "NYDAM"}, {"description": "ERCOT DAM LMP", "filePrefix": "ERCDAM"}, {"description": "ERCOT Settlement Point Price", "filePrefix": "ERCSTL"}, {"description": "MISO Hourly LMP EST", "filePrefix": "MISOHREST"}, {"description": "MISO DAM LMP EST", "filePrefix": "MISODAMEST"}, {"description": "ERCOT 5 Min Bus LMP", "filePrefix": "ERCRTMBUS"}, {"description": "Mexico DAM LMP", "filePrefix": "MEXDAM"}, {"description": "Mexico RTM LMP", "filePrefix": "MEXRTM"}, {"description": "ERCOT 5 Min LMP", "filePrefix": "ERCRTM"}, {"description": "ERCOT DAM Bus LMP", "filePrefix": "ERCDAMBUS"}]</pre>

Sample application/json Response:

HTTP code: 200

Headers:

Content-Disposition: attachment; filename=streamDataUrlFilters<MMM-dd-yyyy_HH_mm_ss>.json

Content-Type: application/json; charset=utf-8

Response Data:

```
[
  {
    "description": "CAISO HASP LMP",
    "filePrefix": "CAHASP"
  },
  {
    "description": "PJM Hourly LMP",
    "filePrefix": "PJMHR"
  },
  {
    "description": "MISO Hourly LMP",
    "filePrefix": "MISOHR"
  },
  {
    "description": "ISO-NE Hourly LMP",
    "filePrefix": "ISONEHR"
  },
  {
    "description": "NYISO Hourly LBMP",
    "filePrefix": "NYHR"
  },
  {
    "description": "SPP Day Ahead LMP",
    "filePrefix": "SPPDAM"
  },
  {
    "description": "CAISO DAM LMP",
    "filePrefix": "CADAM"
  },
  {
    "description": "PJM DAM LMP",
    "filePrefix": "PJMDAM"
  },
  {
    "description": "MISO DAM LMP",
    "filePrefix": "MISODAM"
  }
]
```

	<pre> }, { "description": "ISO-NE DAM LMP", "filePrefix": "ISONEDAM" }, { "description": "NYISO DAM LBMP", "filePrefix": "NYDAM" }, { "description": "ERCOT DAM LMP", "filePrefix": "ERCDAM" }, { "description": "ERCOT Settlement Point Price", "filePrefix": "ERCSTL" }, { "description": "MISO Hourly LMP EST", "filePrefix": "MISOHREST" }, { "description": "MISO DAM LMP EST", "filePrefix": "MISODAMEST" }, { "description": "ERCOT 5 Min Bus LMP ", "filePrefix": "ERCRTMBUS" }, { "description": "Mexico DAM LMP", "filePrefix": "MEXDAM" }, { "description": "Mexico RTM LMP", "filePrefix": "MEXRTM" }, { "description": "ERCOT 5 Min LMP", "filePrefix": "ERCRTM" }, { "description": "ERCOT DAM Bus LMP", </pre>
--	---

	<pre> "filePrefix": "ERCDAMBUS" }] </pre>
HTTP Request	Description
Get GroupExtractHeader	<p>Request type: GET</p> <p>Request headers: Authorization: mandatory, must be in the format of "Bearer <valid access_token from Get Bearer Token Accept: optional, when "text/csv": response will be in CSV format</p> <p>URI: api.nrgstream.com/api/groupExtractHeader/<GroupExtract></p> <p>Sample text/csv Response: HTTP code: 200 Headers: Content-Disposition: attachment; filename=GroupExtractHeader<MMM-dd-yyyy_HH_mm_ss>.csv Content-Type: text/csv; charset=utf-8 Response Data: pnode,Date/Time,Imp,mlc,mcc pnode,Date/Time,Imp,mlc,mcc,DSTFlag,node_name pnode,Date/Time,Imp,mlc,mcc pnode,Date/Time,Imp,mlc,mcc,DSTFlag pnode,Date/Time,Imp,mlc,mcc,DSTFlag pnode,Date/Time,Imp,mlc,mcc,DSTFlag pnode,Date/Time,Imp,mlc,mcc,DSTFlag pnode,Date/Time,Imp,mlc,mcc,DSTFlag,node_name pnode,Date/Time,Imp,mlc,mcc</p>

	<p>pnode,Date/Time,Imp,mlc,mcc,DSTFlag</p> <p>pnode,Date/Time,Imp,mlc,mcc,DSTFlag</p> <p>pnode,Date/Time,Imp,DSTFlag</p> <p>pnode,Date/Time,Imp,DSTFlag</p> <p>pnode,Date/Time (EST),Imp,mlc,mcc</p> <p>pnode,Date/Time (EST),Imp,mlc,mcc</p> <p>pnode,Date/Time,Imp</p> <p>Node,Date/Time,Imp,mlc,mcc,type</p> <p>Node,Date/Time,Imp,mlc,mcc,type</p> <p>pnode,Date/Time,Imp</p> <p>pnode,Date/Time,Imp,DSTFlag</p>
--	--

HTTP Request	Description
Get GroupExtract	<p>Request type: GET</p> <p>Request headers: Authorization: mandatory, must be in the format of "Bearer <valid access_token from Get Bearer Token Accept: not required, data is always returned in a .zip file</p> <p>URI: api.nrgstream.com/api/GroupExtract/<filePrefix>?fileDate=<MM/DD/YYYY></p> <p>Sample text/csv Response: HTTP code: 200 Headers: Content-Disposition: attachment; filename=GroupExtract/<filePrefix><MMM-dd-yyyy_HH_mm_ss>.csv Content-Type: text/csv; charset=utf-8 Response Data: success retrieving CAHASP20200120.zip</p>

Query Parameters The following represent general query parameters for specific API requests.			
Parameter	Name	Description	Example
filePrefix	filePrefix	The filePrefix for a Group Extract which can be found in the results of ListGroupExtracts	PJMHR

HTTP Request	Description
Get StreamList	<p>Request type: GET</p> <p>Request headers: Authorization: mandatory, must be in the format of "Bearer <valid access_token from Get Bearer Token Accept: optional, when "text/csv": response will be in CSV format when omitted (or anything else): response will be in JSON format</p> <p>URI: api.nrgstream.com/api/StreamList</p> <p>Sample text/csv Response: HTTP code: 200 Headers: Content-Disposition: attachment; filename=streamList.csv Content-Type: text/csv; charset=utf-8 Response Data: StreamList successful</p>

HTTP Request	Description
Get FolderList	<p>Request type: GET</p> <p>Request headers: Authorization: mandatory, must be in the format of "Bearer <valid access_token from Get Bearer Token Accept: optional, when "text/csv": response will be in CSV format when omitted (or anything else): response will be in JSON format</p> <p>URI: api.nrgstream.com/api/FolderList</p> <p>Sample text/csv Response: HTTP code: 200 Headers: Content-Disposition: attachment; filename=streamList.csv Content-Type: text/csv; charset=utf-8 Response Data: FolderList successful</p>

HTTP Request	Description
Post UserData	<p>Request type: POST</p> <p>Request headers: Authorization: mandatory, must be in the format of "Bearer <valid access_token from Get Bearer Token>" Content-Type: application/json</p> <p>URI: api.nrgstream.com/api/UserDataUpload/<uploadProfileId></p> <p>Body: JSON encoded payload as negotiated while creating your upload profile. As a general guideline, all payloads should include an "effectiveDate" attribute that is a standard Javascript Date (ISO8601 formatted string) that represents the time that should be shown with the associated data.</p> <p>Response: HTTP code: 200</p> <p>Description: Use this method to post new data from your system for use in nrgstream. If you have an agreement that includes a data upload component, you will be assigned an upload profile id, and you will be expected to deliver a JSON formatted payload on a regular basis to the upload API. The data you upload may be turned into streams that will be accessible to you and other members of your company for use with front end charting and alerting functionalities.</p>

Python Samples

Python 3.8 sample code is supplied for each of the HTTP request types provided by the NRGSTREAM API. For more information and a full list of Python samples, visit our website at <https://www.nrgstream.com/installation.aspx?app=api>.