

My Tools (<https://tools.pjm.com/>) | [Contact Us](https://tools.pjm.com/who-we-are/contact-us.aspx) (<https://tools.pjm.com/who-we-are/contact-us.aspx>) | [Help](https://tools.pjm.com/markets-and-operations/etools/data-miner-2.aspx) (<https://tools.pjm.com/markets-and-operations/etools/data-miner-2.aspx>)

## API Portal



GET da\_hrl\_lmps Metadata (/docs/services/9eb1ee98-d2bd-4ca0-a1c9-4a0df3413160/operations/da\_hrl\_lmps-Metadata?&pattern=lmp)

GET da\_hrl\_lmps Search (/docs/services/9eb1ee98-d2bd-4ca0-a1c9-4a0df3413160/operations/da\_hrl\_lmps-Search?&pattern=lmp)

POST da\_hrl\_lmps Search post (/docs/services/9eb1ee98-d2bd-4ca0-a1c9-4a0df3413160/operations/da\_hrl\_lmps-Search-POST?&pattern=lmp)

GET five\_min\_itsced\_lmps Metadata (/docs/services/9eb1ee98-d2bd-4ca0-a1c9-4a0df3413160/operations/five\_min\_itsced\_lmps-Metadata?&pattern=lmp)

GET five\_min\_itsced\_lmps Search (/docs/services/9eb1ee98-d2bd-4ca0-a1c9-4a0df3413160/operations/five\_min\_itsced\_lmps-Search?&pattern=lmp)

POST five\_min\_itsced\_lmps Search post (/docs/services/9eb1ee98-d2bd-4ca0-a1c9-4a0df3413160/operations/five\_min\_itsced\_lmps-Search-POST?&pattern=lmp)

GET ftr\_cong\_lmp Metadata (/docs/services/9eb1ee98-d2bd-4ca0-a1c9-4a0df3413160/operations/ftr\_cong\_lmp-Metadata?&pattern=lmp)

GET ftr\_cong\_lmp Search (/docs/services/9eb1ee98-d2bd-4ca0-a1c9-4a0df3413160/operations/ftr\_cong\_lmp-Search?&pattern=lmp)

POST ftr\_cong\_lmp Search post (/docs/services/9eb1ee98-d2bd-4ca0-a1c9-4a0df3413160/operations/ftr\_cong\_lmp-Search-POST?&pattern=lmp)

GET mnt\_ftr\_zonal\_lmps Metadata (/docs/services/9eb1ee98-d2bd-4ca0-a1c9-4a0df3413160/operations/mnt\_ftr\_zonal\_lmps-Metadata?&pattern=lmp)

GET mnt\_ftr\_zonal\_lmps Search (/docs/services/9eb1ee98-d2bd-4ca0-a1c9-4a0df3413160/operations/mnt\_ftr\_zonal\_lmps-Search?&pattern=lmp)

POST mnt\_ftr\_zonal\_lmps Search post (/docs/services/9eb1ee98-d2bd-4ca0-a1c9-4a0df3413160/operations/mnt\_ftr\_zonal\_lmps-Search-POST?&pattern=lmp)

GET rt\_da\_monthly\_lmps Metadata (/docs/services/9eb1ee98-d2bd-4ca0-a1c9-4a0df3413160/operations/rt\_da\_monthly\_lmps-Metadata?&pattern=lmp)

GET rt\_da\_monthly\_lmps Search (/docs/services/9eb1ee98-d2bd-4ca0-a1c9-4a0df3413160/operations/rt\_da\_monthly\_lmps-Search?&pattern=lmp)

POST rt\_da\_monthly\_lmps Search post (/docs/services/9eb1ee98-d2bd-4ca0-a1c9-4a0df3413160/operations/rt\_da\_monthly\_lmps-Search-POST?&pattern=lmp)

GET rt\_fivemin\_hrl\_lmps Metadata (/docs/services/9eb1ee98-d2bd-4ca0-a1c9-4a0df3413160/operations/rt\_fivemin\_hrl\_lmps-Metadata?&pattern=lmp)

GET rt\_fivemin\_hrl\_lmps Search (/docs/services/9eb1ee98-d2bd-4ca0-a1c9-4a0df3413160/operations/rt\_fivemin\_hrl\_lmps-Search?&pattern=lmp)

POST rt\_fivemin\_hrl\_lmps Search post (/docs/services/9eb1ee98-d2bd-4ca0-a1c9-4a0df3413160/operations/rt\_fivemin\_hrl\_lmps-Search-POST?&pattern=lmp)

GET rt\_fivemin\_mnt\_lmps Metadata (/docs/services/9eb1ee98-d2bd-4ca0-a1c9-4a0df3413160/operations/rt\_fivemin\_mnt\_lmps-Metadata?&pattern=lmp)

GET rt\_fivemin\_mnt\_lmps Search (/docs/services/9eb1ee98-d2bd-4ca0-a1c9-4a0df3413160/operations/rt\_fivemin\_mnt\_lmps-Search?&pattern=lmp)

POST rt\_fivemin\_mnt\_lmps Search post (/docs/services/9eb1ee98-d2bd-4ca0-a1c9-4a0df3413160/operations/rt\_fivemin\_mnt\_lmps-Search-POST?&pattern=lmp)

GET rt\_hrl\_lmps Metadata (/docs/services/9eb1ee98-d2bd-4ca0-a1c9-4a0df3413160/operations/rt\_hrl\_lmps-Metadata?&pattern=lmp)

GET rt\_hrl\_lmps Search (/docs/services/9eb1ee98-d2bd-4ca0-a1c9-4a0df3413160/operations/rt\_hrl\_lmps-Search?&pattern=lmp)

POST rt\_hrl\_lmps Search post (/docs/services/9eb1ee98-d2bd-4ca0-a1c9-4a0df3413160/operations/rt\_hrl\_lmps-Search-POST?&pattern=lmp)

GET rt\_unverified\_fivemin\_lmps Metadata (/docs/services/9eb1ee98-d2bd-4ca0-a1c9-4a0df3413160/operations/rt\_unverified\_fivemin\_lmps-Metadata?&pattern=lmp)

GET rt\_unverified\_fivemin\_lmps Search (/docs/services/9eb1ee98-d2bd-4ca0-a1c9-4a0df3413160/operations/rt\_unverified\_fivemin\_lmps-Search?&pattern=lmp)

POST rt\_unverified\_fivemin\_lmps Search post (/docs/services/9eb1ee98-d2bd-4ca0-a1c9-4a0df3413160/operations/rt\_unverified\_fivemin\_lmps-Search-POST?&pattern=lmp)

GET rt\_unverified\_hrl\_lmps Metadata (/docs/services/9eb1ee98-d2bd-4ca0-a1c9-4a0df3413160/operations/rt\_unverified\_hrl\_lmps-Metadata?&pattern=lmp)

GET rt\_unverified\_hrl\_lmps Search (/docs/services/9eb1ee98-d2bd-4ca0-a1c9-4a0df3413160/operations/rt\_unverified\_hrl\_lmps-Search?&pattern=imp)

POST rt\_unverified\_hrl\_lmps Search post (/docs/services/9eb1ee98-d2bd-4ca0-a1c9-4a0df3413160/operations/rt\_unverified\_hrl\_lmps-Search-POST?&pattern=imp)

GET unverified\_five\_min\_lmps Metadata (/docs/services/9eb1ee98-d2bd-4ca0-a1c9-4a0df3413160/operations/unverified\_five\_min\_lmps-Metadata?&pattern=imp)

GET unverified\_five\_min\_lmps Search (/docs/services/9eb1ee98-d2bd-4ca0-a1c9-4a0df3413160/operations/unverified\_five\_min\_lmps-Search?&pattern=imp)

POST unverified\_five\_min\_lmps Search post (/docs/services/9eb1ee98-d2bd-4ca0-a1c9-4a0df3413160/operations/unverified\_five\_min\_lmps-Search-POST?&pattern=imp)

# Data Miner 2 Web API

[↓ API definition](#)

API change history (/docs/services/9eb1ee98-d2bd-4ca0-a1c9-4a0df3413160/releaseChanges)

Access Data Miner data directly via common web technologies.

## rt\_hrl\_lmps Search

Searches the Real-Time Hourly LMPs feed. This feed contains hourly Real-Time Energy Market locational marginal pricing (LMP) data for all bus locations, including aggregates. Load-weighted average transmission zone and residual aggregate prices are estimates only. RSS Notification for this feed contains Market Day. To enhance the performance of current data queries and to better handle the increasing volume, PJM has implemented an archiving solution for this posting. The archived data is still available, but has slightly less flexibility on querying parameters than the more recent data does. The details of the restrictions and expected results for several filter combinations are detailed in the <https://pjm.com/markets-and-operations/etools/data-miner-2.aspx>. Data for this feed is archived after two years.

Try it (/docs/services/9eb1ee98-d2bd-4ca0-a1c9-4a0df3413160/operations/rt\_hrl\_lmps-Search/console)

## Request

### Request URL

[https://api.pjm.com/api/v1/rt\\_hrl\\_lmps\[?download\]\[&rowCount\]\[&sort\]\[&order\]\[&startRow\]\[&isActiveMetadata\]\[&fields\]\[&datetime\\_beginning\\_utc\]\[&datetime\\_beginning\\_ept\]\[&pnode\\_id\]\[&voltage\]\[&equipment\]\[&type\]\[&zone\]\[&row\\_is\\_current\]\[&version\\_nbr\]](https://api.pjm.com/api/v1/rt_hrl_lmps[?download][&rowCount][&sort][&order][&startRow][&isActiveMetadata][&fields][&datetime_beginning_utc][&datetime_beginning_ept][&pnode_id][&voltage][&equipment][&type][&zone][&row_is_current][&version_nbr])

### Request parameters

download (optional)

boolean

Determines how results should be returned.

When true, only the results will be returned, no links or search criteria will be echoed. Additionally, the total count will be returned in the HTTP Header X-TotalRows, a Content-Disposition header will be added triggering browsers to show a Save prompt, and the rowCount argument becomes optional. Note that there are still limits on the maximum rows that may be returned and, if that threshold is crossed, a 400 response will be returned.

---

**rowCount** (optional)

integer

Format - int64. Specifies the maximum number of results to include in the search result. This is required if any other parameters are specified. Maximum is 50,000.

---

**sort** (optional)

string

Specifies the name of the field to sort on. Allowed values for this feed are:datetime\_beginning\_ept, pnode\_id, zone

---

**order** (optional)

string

Specifies the direction to sort the field on.

Allowed values are: "asc" for ascending or "desc" for descending order. The default value is "asc".

---

**startRow** (optional)

integer

Format - int64. Specifies the one-based number of the first record in the search results to be returned.

This is one-based, so 1 is the smallest value allowed and will return the very first record. This is required if any other parameters are specified.

---

**isActiveMetadata** (optional)

boolean

Gets or sets a value indicating whether [active metadata only].

---

**fields** (optional)

string

Specifies the list of field names to retrieve in the form of a CSV list. Allowed values for this feed are:datetime\_beginning\_utc, datetime\_beginning\_ept, pnode\_id, pnode\_name, voltage, equipment, type, zone, system\_energy\_price\_rt, total\_lmp\_rt, congestion\_price\_rt, marginal\_loss\_price\_rt, row\_is\_current, version\_nbr

---

**datetime\_beginning\_utc** (optional)

string

Restricts results to those that have a 'Datetime Beginning UTC' which falls inside the specified date range. Allowed values are: Today, CurrentHour, CurrentWeek, CurrentMonth, CurrentYear, Yesterday, LastHour, LastWeek, LastMonth, LastYear, Tomorrow, NextWeek, NextMonth, NextYear, 15SecondsAgo, 5MinutesAgo, 1MonthAgo, 4MonthsAgo, 6MonthsAgo, [date-value] to [date-value]. The date-value range should be

within 366 days. The date-value should include the date and time component. Example: yyyy-MM-dd HH:mm to yyyy-MM-dd HH:mm. Please refer to the API Guide on [www.pjm.com](http://www.pjm.com) page for additional detail on the date parameter.

---

**datetime\_beginning\_ept** (optional)

string

Restricts results to those that have a 'Datetime Beginning EPT' which falls inside the specified date range. Allowed values are: Today, CurrentHour, CurrentWeek, CurrentMonth, CurrentYear, Yesterday, LastHour, LastWeek, LastMonth, LastYear, Tomorrow, NextWeek, NextMonth, NextYear, 15SecondsAgo, 5MinutesAgo, 1MonthAgo, 4MonthsAgo, 6MonthsAgo, [date-value] to [date-value]. The date-value range should be within 366 days. The date-value should include the date and time component. Example: yyyy-MM-dd HH:mm to yyyy-MM-dd HH:mm. Please refer to the API Guide on [www.pjm.com](http://www.pjm.com) page for additional detail on the date parameter.

---

**pnode\_id** (optional)

number

Restricts results to those that match the specified value in the 'Pricing Node ID' field. This performs an exact, numerical match.

---

**voltage** (optional)

string

Restricts results to those that contain the specified value in the 'Voltage' field. This performs a partial, case-insensitive match.

---

**equipment** (optional)

string

Restricts results to those that contain the specified value in the 'Equipment' field. This performs a partial, case-insensitive match.

---

**type** (optional)

string

Restricts results to those that contain the specified value in the 'Pricing Node Type' field. This performs a partial, case-insensitive match.

---

**zone** (optional)

string

Restricts results to those that contain the specified value in the 'Transmission Zone' field. This performs a partial, case-insensitive match. Allowed values are: AECO, AEP, APS, ATSI, BGE, COMED, CPL, DAY, DEOK, DOM, DPL, DUKE, DUQ, EKPC, EXTERNAL, JCPL, METED, PECO, PENELEC, PEPCO, PPL, PSEG, RECO, OVEC.

---

**row\_is\_current** (optional)

string

Restricts results to those that contain the specified value in the 'Latest Version' field. This performs a partial, case-insensitive match. Allowed values are: FALSE, TRUE.

---

**version\_nbr** (optional)

number

Restricts results to those that match the specified value in the 'Version Number' field. This performs an exact, numerical match.

## Request headers

---

**Ocp-Apim-Subscription-Key**

string

Subscription key which provides access to this API. Found in your Profile (/developer).

## Request body

---

## Responses

---

### 200 OK

Successful searches will return the matching feed items, the search criteria used, paging information, and links to related resources.

## Representations

application/json

text/json

application/xml

text/xml

text/csv

Sample

Schema

```
{
  "links": [
    {
      "rel": "string",
      "href": "string"
    }
  ],
  "items": [
    {}
  ],
  "searchSpecification": {
    "rowCount": 100,
    "order": "Asc",
    "startRow": 1,
    "isActiveMetadata": true,
    "fields": [],
    "filters": []
  },
  "totalRows": 0
}
```

The search specification provided is invalid.

```
application/json
```

text/json

application/xml

text/xml

text/csv

## Sample

## Schema

```
{
  "errors": [
    {
      "field": "string",
      "message": "string",
      "detail": [
        "string"
      ]
    }
  ],
  "feedMetadata": {
    "id": 0,
    "feedId": "string",
    "name": "string",
    "displayName": "string",
    "description": "string",
    "category": "string",
    "firstAvailable": "string",
    "version": "string",
    "internalName": "string",
    "defaultSearchJson": "string",
    "fileLoadingMethod": "string",
    "postingFrequency": "string",
    "postingDay": "string",
    "retentionTime": "string",
    "lastDataLoad": "string",
    "lastDataLoadEst": "string",
    "isFrequentlyAccessed": true,
    "enableArchiving": true,
    "archiveCutoffDays": 0,
    "publishDate": "string",
    "created": "string",
    "updated": "string",
    "repostNotifications": [
      {
        "id": 0,
        "feedMetadataId": 0,
        "publishDate": "string",
        "content": "string",
        "created": "string",
        "updated": "string"
      }
    ],
    "columns": [
      {
        "id": 0,
        "feedMetadataId": 0,
        "dataType": "String",
        "filterType": "Input",
        "displayName": "string",
        "fieldName": "string",
        "enableFiltering": true,
        "enableArchiveFiltering": true,

```



```

    "enableSorting": true,
    "ordinalPosition": 0,
    "isVisible": true,
    "width": 0,
    "description": "string",
    "displayFormat": "string",
    "filterUiLocation": "Inline",
    "created": "string",
    "updated": "string",
    "isActive": true
  }
],
"links": [
  {
    "rel": "string",
    "href": "string"
  }
],
"timeDurationUnit": 0,
"timeDurationIncrement": 0,
"categoryOrdinal": 0,
"feedProductType": 0
},
"code": "string",
"message": "string",
"activityId": "string",
"timestamp": "string",
"detailedMessage": "string"
}

```

## 404 Not Found

The specified feed could not be found.

### Representations

application/json

text/json

application/xml

text/xml

text/csv

Sample Schema

```

{
  "data": "string",
  "code": "string",
  "message": "string",
  "activityId": "string",
  "timestamp": "string",
  "detailedMessage": "string"
}

```

## 406 Not Acceptable

Unsupported encoding in Accept header.

### Representations

application/json

text/json

application/xml

text/xml

text/csv

Sample      Schema

```
{
  "data": "string",
  "code": "string",
  "message": "string",
  "activityId": "string",
  "timestamp": "string",
  "detailedMessage": "string"
}
```

## 500 Internal Server Error

An unexpected error has occurred, please try the request again later.

### Representations

application/json

text/json

application/xml

text/xml

text/csv

Sample      Schema

```
{
  "code": "string",
  "message": "string",
  "activityId": "string",
  "timestamp": "string",
  "detailedMessage": "string"
}
```

### Code samples

Curl

C#

Java

JavaScript

ObjC

PHP

Python

Ruby

@ECHO OFF

```
curl -v -X GET "https://api.pjm.com/api/v1/rt_hrl_lmps?download={boolean}&rowCount={integer}&sort={string}&order={string}&startRow={integer}&isActiveMetadata={boolean}&fields={string}&datetime_beginning_utc={string}&datetime_beginning_ept={string}&pnode_id={number}&voltage={string}&equipment={string}&type={string}&zone={string}&row_is_current={string}&version_nbr={number}"  
-H "Ocp-Apim-Subscription-Key: {subscription key}"  
  
--data-ascii "{body}"
```

PJM © 2011-2017. All rights reserved

Legal and Privacy (<http://pjm.com/about-pjm/legal.aspx>)

Feedback (<mailto:ToolsRefresh@pjm.com>)