

rt_hrl_lmps Search

[Try it ▶](#)

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.

Real-Time Hourly LMPs

Request

```
GET 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

Name	In	Required	Type
download	query	false	boolean

rowCount	query	false	integer
----------	-------	-------	---------

sort	query	false	string
------	-------	-------	--------

order	query	false	string
-------	-------	-------	--------

startRow	query	false	integer
----------	-------	-------	---------

isActiveMetadata	query	false	boolean
------------------	-------	-------	---------

fields	query	false	string
--------	-------	-------	--------

datetime_beginning_utc	query	false	string
------------------------	-------	-------	--------

datetime_beginning_ept query false string

pnode_id query false number

voltage query false string

equipment query false string

type query false string

zone query false string

row_is_current	query	false	string
----------------	-------	-------	--------

version_nbr	query	false	number
-------------	-------	-------	--------

Response: 200 OK

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

application/json	text/json	application/xml	text/xml	text/csv
------------------	-----------	-----------------	----------	----------

FeedSearchResult

Feed Search Result



{ }

Name	Required	Type	Description
links	false	Link[]	Gets o
items	false	object[]	Gets o
searchSpecification	false	SearchSpecification	Feed S
totalRows	false	integer (int64)	Gets o

default

DEFAULT - JSON

Copy

```
{
  "links": [{
```

```

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

```

Response: 400 Bad Request

The search specification provided is invalid.

application/json	text/json	application/xml	text/xml	text/csv
------------------	-----------	-----------------	----------	----------

ValidationErrorContent



{ }

Name	Required	Type	Description
errors	false	ValidationResult[]	
feedMetadata	false	FeedMetadataDetail	Feed Metadata
code	false	string	Code
message	false	string	Message
activityId	false	string	Activity ID
timestamp	false	string	UTC Timestamp

detailedMessage	false	string	Details
-----------------	-------	--------	---------

default

DEFAULT - JSON

 Copy

```
{  
  "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"
}
}
```

Response: 404 Not Found

The specified feed could not be found.

application/json

text/json

application/xml

text/xml

text/csv

DataMinerErrorContent[String]



{ }

Name	Required	Type	Description
data	false	string	
code	false	string	Code
message	false	string	Messa
activityId	false	string	Activity
timestamp	false	string	UTC Ti
detailedMessage	false	string	Detailed

default

DEFAULT - JSON

Copy

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

Response: 406 Not Acceptable

Unsupported encoding in Accept header.

application/json

text/json

application/xml

text/xml

text/csv

DataMinerErrorContent[String]



{ }

Name	Required	Type	Description
data	false	string	
code	false	string	Code
message	false	string	Messa
activityId	false	string	Activity
timestamp	false	string	UTC Ti
detailedMessage	false	string	Detailed

default

DEFAULT - JSON

Copy

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

Response: 500 Internal Server Error

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

application/json

text/json

application/xml

text/xml

text/csv

DataMinerErrorContent

Data Miner Error Content



{ }

Name	Required	Type	Description
code	false	string	Code
message	false	string	Message
activityId	false	string	Activity ID
timestamp	false	string	UTC Timestamp
detailedMessage	false	string	Detailed Message

default

DEFAULT - JSON

Copy

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

Definitions

Name	Description
SearchSpecification	Feed Search Specification.
KeyValuePair[String, Object]	
FeedSearchResult	Feed Search Result

[Link](#)

Class Link.

[ValidationErrorContent](#)[ValidationResult](#)[FeedMetadataDetail](#)

Feed Metadata detail

[FeedRepostNotification](#)

Describes a column for a feed.

[FeedColumnMetadata](#)

Describes a column for a feed.

[DataMinerErrorContent](#)[DataMinerErrorContent](#)

Data Miner Error Content

SearchSpecification

Feed Search Specification.



{ }

Name	Required	Type	Description
rowCount	false	integer (int64)	Specifies the number of rows to include in the search results. The default value is 50,000.
sort	false	string	Specifies the sort order for the search results. The allowed values are ascending and descending.
order	false	string	Specifies the order of the search results. Allowed values are ascending and descending.
startRow	false	integer (int64)	Specifies the starting row index for the search results. Based on the sort and order parameters, so 1 means return the first row.

isActiveMetadata	false	boolean	Gets or sets the active metadata condition.
fields	false	string[]	Specifies the form of a row.
filters	false	KeyValuePair[String, Object]	Filter Row

KeyValuePair[String, Object]



Name	Required	Read-only	Type
key	false	true	string
value	false	true	object

FeedSearchResult

Feed Search Result



Name	Required	Type	Description
links	false	Link[]	Gets or Sets the links.
items	false	object[]	Gets or sets the items.
searchSpecification	false	SearchSpecification	Feed Search Specification.
totalRows	false	integer (int64)	Gets or sets the total number of rows.

Link

Class Link.



Name	Required	Type	Description
rel	false	string	Gets or sets the relationship type.
href	false	string	Gets or sets the URL of the resource.

ValidationErrorContent



Name	Required	Type	Description
errors	false	ValidationResult[]	Validation errors.
feedMetadata	false	FeedMetadataDetail	Feed Metadata.
code	false	string	Code
message	false	string	Message
activityId	false	string	Activity Id (optional)
timestamp	false	string	UTC Timestamp
detailedMessage	false	string	Detailed Message

ValidationResult



Name	Required	Type	Description
field	false	string	Gets or sets the field name.
message	false	string	Gets or sets the validation message.

detail	false	string[]	Gets or set:
--------	-------	----------	--------------

FeedMetadataDetail

Feed Metadata detail



{ }

Name	Required	Read-only	Type
id	false	false	integer (int64)
feedId	false	true	string
name	false	false	string
displayName	false	false	string
description	false	false	string
category	false	false	string
firstAvailable	false	false	string (date-time)
version	false	false	string
internalName	false	false	string
defaultSearchJson	false	false	string
fileLoadingMethod	false	false	string
postingFrequency	false	false	string

postingDay	false	false	string
retentionTime	false	false	string
lastDataLoad	false	false	string (date-time)
lastDataLoadEst	false	true	string (date-time)
isFrequentlyAcces...	false	false	boolean
enableArchiving	false	false	boolean
archiveCutoffDays	false	false	integer (int32)
publishDate	false	false	string (date-time)
created	false	false	string (date-time)
updated	false	false	string (date-time)
repostNotifications	false	false	FeedRepostNotification
columns	false	false	FeedColumnMetadata[]
links	false	false	Link[]
timeDurationUnit	false	true	integer (int32)
timeDurationIncre...	false	true	integer (int32)
categoryOrdinal	false	false	integer (int32)
feedProductType	false	false	integer (int32)

FeedRepostNotification

Describes a column for a feed.



{ }

Name	Required	Type	Description
id	false	integer (int64)	Gets or sets the ID of the feed column.
feedMetadataId	false	integer (int64)	Gets or sets the ID of the feed metadata associated with this column.
publishDate	false	string (date-time)	Gets or sets the publish date of the feed column.
content	false	string	Gets or sets the content of the feed column.
created	false	string (date-time)	Gets or sets the creation date of the feed column.
updated	false	string (date-time)	Gets or sets the update date of the feed column.

FeedColumnMetadata

Describes a column for a feed.



{ }

Name	Required	Type	Description
id	false	integer (int64)	Gets or sets the ID of the feed column metadata.
feedMetadataId	false	integer (int64)	Gets or sets the ID of the feed metadata associated with this column.
dataType	false	string	Gets or sets the data type of the feed column.
filterType	false	string	Gets or sets the filter type of the feed column.
displayName	false	string	Gets or sets the display name of the feed column.
fieldName	false	string	Gets or sets the field name of the feed column.

enableFiltering	false	boolean	Gets or set: filtering].
enableArchiveFilte...	false	boolean	Gets or set: filtering].
enableSorting	false	boolean	Gets or set: sorting].
ordinalPosition	false	integer (int32)	Gets or set:
isVisible	false	boolean	Gets or set: instance is
width	false	integer (int32)	Gets or set:
description	false	string	Gets or set:
displayFormat	false	string	Gets or set:
filterUiLocation	false	string	Gets or set:
created	false	string (date-time)	Gets or set:
updated	false	string (date-time)	Gets or set:
isActive	false	boolean	Gets or set: instance is

DataMinerErrorContent[String]



Name	Required	Type	Description
data	false	string	
code	false	string	Code

message	false	string	Message
activityId	false	string	Activity Id (I
timestamp	false	string	UTC Timest
detailedMessage	false	string	Detailed M

DataMinerErrorContent

Data Miner Error Content



Name	Required	Type	Description
code	false	string	Code
message	false	string	Message
activityId	false	string	Activity Id (I
timestamp	false	string	UTC Timest
detailedMessage	false	string	Detailed M