

rt_hrl_Imps 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	Descri
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

Validation

ErrorContent

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

Detail

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
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DataMinerErrorContent[String]



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

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	Descri
data	false	string	
code	false	string	Code
message	false	string	Messa
activityId	false	string	Activity
timestamp	false	string	UTC Ti
detailedMessage	false	string	Detaile

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	Descri
code	false	string	Code
message	false	string	Messa
activityId	false	string	Activity
timestamp	false	string	UTC Ti
detailedMessage	false	string	Detaile

default

DEFAULT - JSON Copy

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

Definitions

Name	Description
SearchSpecification	Feed Search Specification.
KeyValuePair[String,Ob...	
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 is 50,000.
sort	false	string	Specifies the sort order for the search results.
order	false	string	Specifies the sort order for the search results. Allowed values are asc and desc.
startRow	false	integer (int64)	Specifies the starting row in the search results. The default is 1.

isActiveMetadata	false	boolean	Gets or sets metadata c
fields	false	string[]	Specifies th form of a C
filters	false	KeyValuePair[String,...	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	Descriptio
links	false	Link[]	Gets or Set
items	false	object[]	Gets or sets
searchSpecification	false	SearchSpecification	Feed Search
totalRows	false	integer (int64)	Gets or sets

Link

Class Link.



Name	Required	Type	Descriptio
rel	false	string	Gets or set:
href	false	string	Gets or set:

ValidationErrorContent



Name	Required	Type	Descriptio
errors	false	ValidationResult[]	
feedMetadata	false	FeedMetadataDetail	Feed Metac
code	false	string	Code
message	false	string	Message
activityId	false	string	Activity Id (
timestamp	false	string	UTC Timest
detailedMessage	false	string	Detailed M

ValidationResult



Name	Required	Type	Descriptio
field	false	string	Gets or set:
message	false	string	Gets or set:

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	FeedRepostNotificati.
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 unique identifier for the column.
feedMetadataId	false	integer (int64)	Gets or sets the feed metadata identifier.
publishDate	false	string (date-time)	Gets or sets the date and time when the column was published.
content	false	string	Gets or sets the content of the column.
created	false	string (date-time)	Gets or sets the date and time when the column was created.
updated	false	string (date-time)	Gets or sets the date and time when the column was last updated.

FeedColumnMetadata

Describes a column for a feed.



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

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

DataMinerErrorContent[String]



Name	Required	Type	Descriptio
data	false	string	
code	false	string	Code

message	false	string	Message
activityId	false	string	Activity Id (0
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 (0
timestamp	false	string	UTC Timest
detailedMessage	false	string	Detailed M