

OASIS Frequently Asked Questions (FAQ)

QUESTION: How can a user utilize the OASIS Application Programming Interface (API) to download a large amount of data?

Answer: A user can obtain a large amount of data in an automated way by utilizing the OASIS API queries. The questions below represent a few examples on how to construct these queries.

QUESTION: How can a user obtain the CAISO Demand Forecast via API and construct a query?

Answer: For the trade date range the user is seeking to download, simply change the dates accordingly (highlighted in yellow). If the user wants the data returned in XML, delete the red text from the query (**resultformat=6&**). Highlighted in blue is the “Market/Process”, if the user wants to retrieve a different one simply change the value to one of the following (2DA, 7DA, DAM, ACTUAL, RTM). The query below will retrieve all the demand forecast results for DAM on 4/15/16.

http://oasis.caiso.com/oasisapi/SingleZip?queryname=SLD_FCST&market_run_id=DAM&resultformat=6&startdatetime=20160415T07:00-0000&enddatetime=20160416T07:00-0000&version=1

QUESTION: If a user wants to obtain the Wind and Solar Forecast via API, how would they construct a query?

Answer: For the trade date range the user is looking to download, simply change the dates accordingly (highlighted in yellow). If the user wants the data returned in XML, delete the red text from the query (**resultformat=6&**). Highlighted in blue is the “Market/Process”, if the user wants to retrieve a different one simply change the value to one of the following (DAM, ACTUAL, HASP, RTD, RTPD). The query below will retrieve all the demand forecast results for DAM on 4/15/16.

http://oasis.caiso.com/oasisapi/SingleZip?queryname=SLD_REN_FCST&market_run_id=DAM&startdatetime=20160415T07:00-0000&enddatetime=20160416T07:00-0000&resultformat=6&version=1

The sample query below will retrieve all the demand forecast results for RTPD on 4/15/16 for HE1 through HE7.

http://oasis.caiso.com/oasisapi/SingleZip?queryname=SLD_REN_FCST&market_run_id=RTPD&startdatetime=20160415T07:00-0000&enddatetime=20160415T14:00-0000&resultformat=6&version=1

QUESTION: If a user wants to obtain the 5-minute Real Time Dispatch (RTD) Locational Marginal Price's via API, how would they construct a query?

Answer:

<u>PRICES</u>	TRANSMISSION	SYSTEM DEMAND	ENERGY	ANCILLARY SEI
Locational Marginal Prices				
Scheduling Point/Tie Combination Locational Marginal Prices				
Interval Locational Marginal Prices				
Interval Scheduling Point/Tie Combination Locational Marginal Prices				
Nomogram/Branch Shadow Prices				

This query will provide the same results as going to the above report on OASIS – the only important parameters are highlighted below. The sample query below will retrieve all the hours that are available for the 4/1/2016 trade date. If the user wants to target a given hour, simply move the GMT offset accordingly (highlighted in yellow). If the user wants data returned in XML, delete the red text from the query (**resultformat=6&**). Highlighted in blue are the nodes. If the user is looking to retrieve all nodes, simply replace the last section in query from *node=NODENAME*, to *grp_type=ALL*. Remember, when retrieving ALL, the user is only able to retrieve **one hour** for a given trade date at a time.

http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_INTVL_LMP&startdatetime=20160401T07:00-0000&enddatetime=20160402T07:00-0000&version=2&resultformat=6&market_run_id=RTM&node=ELAP_NEVP-APND,ELAP_PACW-APND,ELAP_PACE-APND,MALIN_5_N101

QUESTION: If a user wants to obtain the Day-Ahead Locational Marginal Price's via API, how would they construct a query?

Answer:

<u>PRICES</u>	TRANSMISSION	SYSTEM DEMAND	ENERGY	ANCILLARY SEI
Locational Marginal Prices				
Scheduling Point/Tie Combination Locational Marginal Prices				
Interval Locational Marginal Prices				
Interval Scheduling Point/Tie Combination Locational Marginal Prices				
Nomogram/Branch Shadow Prices				

This query will provide the same results as going to the above report on OASIS – the only important parameters are highlighted below. The sample query below will retrieve all the hours that are available for the 4/2/2016 trade date. If the user wants to target a given hour, simply move the GMT offset accordingly (highlighted in yellow). If the user wants data returned in XML, delete the red text from the query (**resultformat=6&**). Highlighted in blue are the nodes. If the user is looking

to retrieve all nodes, simply replace the last section in query from *node=NODENAME*, to *grp_type=ALL*. Remember, when retrieving ALL, the user is only able to retrieve **one trade date** at a time.

http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_LMP&startdatetime=20160402T07:00-0000&enddatetime=20160403T07:00-0000&version=2&resultformat=6&market_run_id=DAM&node=ELAP_NEVP-APND,ELAP_PACW-APND,ELAP_PACE-APND,MALIN_5_N101

QUESTION: If a user wants to obtain the Fifteen Minute Market (FMM) Locational Marginal Price's via API, how would they construct a query?

Answer:



This query will provide the same results as going to the above report on OASIS – the only important parameters are highlighted below. The sample query below will retrieve all the hours that are available for 4/21/2016 trade date. If the user wants to target a given hour, simply move the GMT offset accordingly (highlighted in yellow). If the user wants data returned in XML, delete the red text from the query (*resultformat=6&*). Highlighted in blue are the nodes. If the user is looking to retrieve all nodes, simply replace the last section in query from *node=NODENAME*, to *grp_type=ALL*. Remember, when retrieving ALL, the user is only able to retrieve **one trade date** at a time.

http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_RTPD_LMP&startdatetime=20160421T07:00-0000&enddatetime=20160422T07:00-0000&version=2&resultformat=6&market_run_id=RTPD&node=4C687_1_B1

For more details on the information provided above or other reports, please see Section 6 (pg. 41) of the oasis API specification found at the following location:

http://www.caiso.com/Documents/OASIS-InterfaceSpecification_v4_3_0Clean_Fall2016Release.pdf