



Interface Specification for OASIS

Fall 2017 Release

Version: 5.1.2

10/27/2017



Revision History

| Date | Version | Description |
|----------------------------|---------|---|
| Sep 23, 2013 | 4.0.0 | Initial release of GMT 2013 services to Market Participants. Pre-GMT tech specs and it's version history is at http://www.caiso.com/Documents/InterfaceSpecifications-OASISv3_12_0.pdf |
| Oct 24, 2013 | 4.0.1 | Minor corrections and updates |
| Nov 26, 2013 | 4.0.2 | Removed deprecated group CRR1_GRP and corrected report names available under RTM1_GRP and HASP1_GRP Removed alternate URL for CURR_LMP_GRP. StartDateTime and version parameters are now mandatory for all reports. |
| Dec 15, 2013 | 4.0.3 | PRC_LMP URL typo correction. Update for PRC_FLEX_RAMP and PRC_FLEX_RAMP_CURR. Updated files in groups HASP_MPM_SD_PRC_GRP, RTPD_MPM_SD_PRC_GRP, DAM_MPM_LMP_GRP |
| Jan 22, 2014 | 4.1.1 | Merge FERC764 tech spec changes on top of latest GMT release tech spec Updated current Transmission usage, Demand forecast, Renewable forecast sections for 15-min interval data. |
| Mar 4 th , 2014 | 4.1.2 | Renamed query parameter for SLD_FCST to be execution_type instead of exec_type for RTM market_run_id |
| Mar 12, 2014 | 4.1.3 | Added additional report query parameters for TRNS_USAGE and TRNS_CURR_USAGE |
| Mar 18, 2014 | 4.2.0 | Changes for Fall 2014/EIM release Added new reports: <ul style="list-style-type: none"> • PRC_EIM_GHG – EIM GHG shadow price • ENE_EIM_TRANSFER_LIMITS – EIM Transfer limits • ENE_EIM_TRANSFER –EIM Transfer • ENE_EIM_DYN_NSI – EIM BAA Dynamic NSI • ENE_BASE_NSI – BAA Base NSI Updated reports: <ul style="list-style-type: none"> • PRC_FLEX_RAMP_CURR and PRC_FLEX_RAMP for new baa_grp_id attribute • PRC_CNSTR, PRC_RTM_FLOWGATE, PRC_CD_RTM_FLOWGATE, PRC_MPM_CNSTR, PRC_MPM_CNSTR_CMP, PRC_MPM_RTM_FLOWGATE to include new Constraint Type (Physical, Scheduling) • PRC_INTVL_LMP, PRC_CURR_LMP, PRC_HASP_LMP, PRC_RTPD_LMP, PRC_MPM_RTM_LMP to include GHG LMP component in the output • ENE_EA updated for two new energy types for Base Schedule and EIM manual dispatch. • ENE_MPM for new baa_id attribute |



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| | | OasisReport.xsd version will be moving from v1 to v2 for the new/changed reports. |
| Jun 30, 2014 | 4.2.1 | PRC_HASP_LMP correction to include GHG LMP component in the output. |
| Aug 12, 2014 | 4.2.2 | <ul style="list-style-type: none"> Removed newly added Constraint type element from the following reports to roll back to previous version v1 PRC_CNSTR, PRC_RTM_FLOWGATE, PRC_CD_RTM_FLOWGATE, PRC_MPM_CNSTR, PRC_MPM_CNSTR_CMP, PRC_MPM_RTM_FLOWGATE Updated the URLs to add enddatetime element to the following reports PRC_FLEX_RAMP Added sample URLs for market_run_id =ALL for the following reports ENE_EIM_TRANSFER_LIMITS ENE_EIM_TRANSFER ENE_EIM_DYN_NSI Removed non-existent report PRC_FLEX_RAMP_CURR from the document. |
| Dec 04, 2014 | 4.2.3 | <p>Add new reports for the January 2015 release: Major version=3; Minor version=20150101</p> <ul style="list-style-type: none"> PRC_SPTIE_LMP - Scheduling Point Tie Combination Locational Marginal Prices (LMP) PRC_CD_SPTIE_LMP - Contingency Dispatch Scheduling Point Tie Combination Locational Marginal Prices (LMP) <p>Per Fall Release 2014 EIM, added version 2 sample URLs for the following reports: PRC_INTVL_LMP, PRC_CURR_LMP, PRC_HASP_LMP, PRC_RTPD_LMP, PRC_MPM_RTM_LMP; where version=2 includes the GHG LMP component in the output</p> |
| Dec 19, 2014 | 4.2.4 | <ul style="list-style-type: none"> Removed the HASP market sample URLs for the new report PRC_SPTIE_LMP Corrected the version # for the group report URLs: DAM_SPTIE_LMP_GRP, RTPD_SPTIE_LMP_GRP, RTD_SPTIE_LMP_GRP – should be version 3 |
| Feb 18, 2015 | 4.2.5 | <ul style="list-style-type: none"> Updated CB Public Bids to add new Flowgate field (PUB_CB_BID) Update CB Reference Prices to add new TIE_NAME field (PRC_DS_REF) Add new report ATL_CBNODE |
| Mar 12, 2015 | 4.2.6 | <ul style="list-style-type: none"> Updated occurrences of “<i>Spring 2015</i>” to “<i>Independent 2015</i>” release in the document |
| Mar 30, 2015 | 4.2.7 | <ul style="list-style-type: none"> Corrected the PRC_DS_REF sample single zip URLs |



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| | | <ul style="list-style-type: none"> Updated Section 11 Long/Short Day section to add notes about HE25 and HE03 |
| Apr 7, 2016 | 4.3.0 | <p>Fall 2016 Release changes</p> <p>New services</p> <ul style="list-style-type: none"> service PRC_RTM_SCH_CNSTR (Scheduling Constraint Shadow Prices) service SLD_ADV_FCST (Advisory CAISO Demand Forecast) service ENE_HRLY_BASE_NSI (EIM BAA Hourly Base NSI) service ENE_UNCERTAINTY_MV (Uncertainty Movement by Category) service ENE_FLEX_RAMP_REQT (Flexible Ramp Requirements) service ENE_AGGR_FLEX_RAMP (Flex Ramp Aggr Awards) service ENE_FLEX_RAMP_DC (Flex Ramp Surplus Demand Curves) <p>Update to existing services</p> <ul style="list-style-type: none"> Updated PRC_SPTIE_LMP service to include LMP_ENE_PRC, LMP_LOSS_PRC AND LMP_GHG_PRC elements Updated PRC_CD_SPTIE_LMP service to include LMP_ENE_PRC, LMP_LOSS_PRC AND LMP_GHG_PRC elements Updated PRC_MPM_RTM_LMP service to extend the support for RTD LMPM Updated PRC_MPM_RTM_NOMOGRAM to extend the support for RTD LMPM Updated PRC_MPM_RTM_NOMOGRAM_CMP to extend the support for RTD LMPM Updated PRC_MPM_RTM_FLOWGATE to extend the support for RTD LMPM Updated PRC_MPM_CNSTR_CMP to extend the support for RTD LMPM Updated PRC_MPM_RTM_REF_BUS to extend the support for RTD LMPM Updated PUB_BID to include GHG market product <p>Other document corrections</p> <ul style="list-style-type: none"> csv format to “6” under section 3.1.3 Maximum download to only one hour for PRC_RTPD_LMP |
| June 2, 2016 | 4.3.1 | <p>Fall 2016 Release additional changes</p> <ul style="list-style-type: none"> Added new SLD_SF_EVAL_DMD_FCST report under System Demand section Added new ENE_EIM_TRANSFER_TIE report under Energy section Added 'RAMP_TYPE' element for the ENE_AGGR_FLEX_RAMP report Updated the SLD_ADV_FCST report description |



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| Aug 19, 2016 | 4.3.2 | <p>Fall 2016 Release additional changes</p> <ul style="list-style-type: none"> Added new ENE_HRLY_BASE_LOSS report under Energy section |
| Dec 2, 2016 | 4.3.3 | <p>Independent 2016 release</p> <p>Introduced API services for below reports:</p> <ul style="list-style-type: none"> Price Correction Messages – ATL_PRC_CORR_MSG Scheduling Point Definition – ATL_SP BAA and Tie Definition – ATL_BAA_TIE Scheduling Point and Tie Definition – ATL_SP_TIE Intertie Constraint and Scheduling Point Mapping – ATL_ITC_SP Intertie Scheduling Limit and Tie Mapping – ATL_ISL_TIE Wind And Solar Summary – ENE_WIND_SOLAR_SUMMARY EIM Transfer Limits By Tie – ENE_EIM_TRANSFER_LIMITS_TIE MPM Default Competitive Path Assessment List – PRC_MPM_DEFAULT_CMP <p>Updates to LMP Price API's (split into individual price component files)</p> <ul style="list-style-type: none"> PRC_INTVL_LMP PRC_RTPD_LMP PRC_HASP_LMP PRC_SPTIE_LMP (Group Names: RTD_SPTIE_LMP_GRP, RTPD_SPTIE_LMP_GRP) <p>Updates to TRNS_CURR_USAGE API (limit to current and future trade days only)</p> |
| Jan 20, 2016 | 4.3.4 | <p>Updated the following MPM Services (Spring 2017)</p> <ul style="list-style-type: none"> Updated PRC_MPM_RTM_LMP service to remove the support for RTD LMPM Updated PRC_MPM_RTM_NOMOGRAM to remove the support for RTD LMPM Updated PRC_MPM_RTM_NOMOGRAM_CMP to remove the support for RTD LMPM Updated PRC_MPM_RTM_FLOWGATE to remove the support for RTD LMPM Updated PRC_MPM_CNSTR_CMP to remove the support for RTD LMPM Updated PRC_MPM_RTM_REF_BUS to remove the support for RTD LMPM MPM Intertie Constraint Competitive Paths for RTD |



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| <p>Feb 10, 2017</p> | <p>4.3.5</p> | <p>Updated the following MPM Services (Spring 2017)</p> <ul style="list-style-type: none"> • Updated PRC_MPM_RTM_REF_BUS to add support for RTD LMPM. • Updated PRC_MPM_RTM_NOMOGRAM_CMP to add support for RTD LMPM. • Updated PRC_MPM_CNSTR_CMP to add support for RTD LMPM. <p>Added example API URLs for the following Services</p> <ul style="list-style-type: none"> • PRC_INTVL_LMP for version 3 • PRC_SPTIE_LMP for version 5 • PRC_HASP_LMP for version 3 • PRC_RTPD_LMP for version 3 • PRC_SPTIE_LMP for version 5 • DAM_SPTIE_LMP_GRP for version 5 |
| <p>Mar 31, 2017</p> | <p>5.0.0</p> | <p>Fall 2017 Release</p> <ul style="list-style-type: none"> • Added new service CSP_OFFER_SET for Competitive Solicitation Process Offer Set. • Added new service ENE_FLEX_RAMP_INPUT for Flexible Ramp Requirements Input data. • Added new service PRC_RTM_LAP for Hourly RTM LAP prices <p>Pre Fall - 2017 Release document clean up</p> <ul style="list-style-type: none"> • Corrected ENE_MPM API sample URL to fix the incorrect version • Corrected typo in PRC_MPM_DEFAULT_CMP service data element COMPETITIVE_FLAG |
| <p>Apr 28, 2017</p> | <p>5.1.0</p> | <p>Fall 2017 Release</p> <ul style="list-style-type: none"> • Added new service for Control Area Generating Capability List <p>Updated CSP_OFFER_SET Service</p> <ul style="list-style-type: none"> • Service name changed from CSP_OFFER_SET to PUB_CSP_OFFER_SET • Removed SCHEDULINGCOORDINATOR element • Added notes to provide additional details • CSP_OFFER_SET API sample URLs are updated. |



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| | | <p>Updated ENE_FLEX_RAMP_INPUT Service</p> <ul style="list-style-type: none"> • Service name changed from ENE_FLEX_RAMP_INPUT to ENE_EIM_FLEX_RAMP_INPUT • ENE_FLEX_RAMP_INPUT API sample URLs are updated. |
| Jun 22, 2017 | 5.1.1 | <p>Fall 2017 Release</p> <ul style="list-style-type: none"> • Control Area Generating Capability List -Renamed element GENERATING_UNIT_NAME to GEN_UNIT_NAME <p>Updated ENE_FLEX_RAMP_INPUT Service</p> <ul style="list-style-type: none"> • Added TEST_INDICATOR element • Added RAMP_TYPE element • Added FLEX_RAMP_REQ_MW element • Removed CHANGE_IN_LOAD_DEMAND element • Removed UC_COMPONENT element |
| Oct 27, 2017 | 5.1.2 | <p>Updated Hourly Real-Time LAP service</p> <ul style="list-style-type: none"> • Corrected group zip file name under Group Report Definitions section. • Corrected energy type code from SMEC to MCE <p>Updated Versioning and Namespace domain reference section</p> <ul style="list-style-type: none"> • Added OASISMaster_v4.xsd |



Table of Contents

- 1. OVERVIEW1**
- 1.1 BACKGROUND – TIME HORIZONS.....1
- TIME HORIZONS FOR CAISO PUBLIC DATA POSTINGS:1
- 2. DATA REQUEST TO API.....2**
- 2.1 API URL FOR SINGLE REPORTS.....2
- 2.1.1. *Example URL for the ISO Market Simulation Environment*2
- 2.1.2. *Example URL for the ISO Market Production Environment*3
- 2.2. API URL FOR GROUP REPORTS3
- 2.2.1 *Example URL*.....3
- 3. RETURNED XML FILE.....4**
- 3.1 FILE NAMES FOR SINGLE AND GROUP.....4
- 3.1.1 XML FORMAT5
- 3.1.2 *XML Schemas*5
- 3.1.3 CSV FORMAT6
- 3.2 ERRORS8
- 4. RECOMMENDED USAGE.....9**
- 5. REPORTS AND XML DATA ITEMS.....9**
- 6. SINGLE REPORT URL QUERY STRINGS.....43**
- 7. GROUP REPORT DEFINITIONS63**
- 8. GROUP URL QUERY STRINGS68**



| | |
|---|----|
| 9. VERSIONING AND NAMESPACE DOMAIN REFERENCE..... | 72 |
| 10. SCHEMA FILES CHANGES | 73 |
| 11. LONG DAY AND SHORT DAY REQUEST EXAMPLES | 73 |



1. Overview

This document explains the functionality of the Open Access Same-Time Information System (OASIS) API. In this document the following are described:

- ❖ Background of OASIS.
- ❖ URL Parameter definitions for requesting OASIS data.
- ❖ Naming Convention for Returned OASIS files.
- ❖ Schema (XSD) for returned OASIS XML data.

1.1 Background – Time Horizons

The California Independent System Operator's (CAISO) Open Access Same-time information System (OASIS) provides energy market and power grid information to the public and market participants, through reports with real time updates. This information includes the following:

- ❖ System load requirements
- ❖ Market Price information
- ❖ Transmission availability
- ❖ System demand conditions

The data is categorized into three groups:

| Category | Description |
|--------------------|--|
| OASIS Data | This is the CAISO operational and market data. |
| Public Bids | This is the Public Bid data published after 90 days. |
| Atlas Data | This is the reference data supporting OASIS Data. |

Its own XSD Schema, described in this document, supports each category.

To automate the download of the OASIS report data in XML, the information in this document describes the OASIS XML format and the download procedures, including URL examples associated with the XML data files.

Time Horizons for CAISO Public Data postings:

- **GMT version services for ISO Market**

The URL for the GMT version of the OASIS API web services is <http://oasis.caiso.com/oasisapi>

This API document describes the functions for this version of OASIS.



2. Data Request to API

CAISO's OASIS is redesigned to adapt to the changes in the markets and grid operations initiated by the New ISO Market program. However, the technology of the new OASIS for downloading data is quite similar to the existing OASIS. The process of obtaining data from OASIS by automation using its API can be described as queries implemented through URL Servlet requests. It can be defined as sending URL requests with parameters to the OASIS web servers, from the Users web client.

2.1 API URL for single reports

Single report request will be using the servlet called SingleZip. The return of XML in CIM format will be based on XSDs specified above. The data content will be based on the type parameters will be passed to the SingleZip request. To illustrate the URL and its parameters, we show the pattern that would return an XML file based on the Schemas.

```
URL?queryname=<A>&startdatetime=<D>&enddatetime=<D>&market_run_id=<A>&version=<A>&varParameters
```

Where:

```
URL = http://oasiswebsite/context-path/SingleZip
```

```
For production : oasiswebsite = oasis.caiso.com
                  context-path = oasisapi
For mapstage   : oasiswebsite = oasis.caiso.com
                  context-path = oasisapi
```

Mandatory Parameters:

```
startdatetime = valid operating start datetime in GMT
                (yyyymmddThh24:miZ)
enddatetime   = valid operating end datetime in GMT (yyyymmddThh24:miZ)
                which is equal or greater than <startdate>
queryname     = valid reportname,
                refer to the XML Query Name in the document
market_run_id = valid market type
version       = API version (1 for the GMT 2013 release)
```

Variable Parameters:

```
varParameters
    variable Parameters are defined for each Report
    and its specific Filter options
```

2.1.1. Example URL for the ISO Market *Simulation* Environment

To illustrate the use of the URL and its parameters, we show an example based on the pattern above: This string indicates the proper path to query data that exists in our Market Simulation Environment.

```
http://oasismap.caiso.com/oasisapi/SingleZip?queryname=AS_REQ&
```



```
startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&market_run_id=DAM&version=1&as_type=ALL&as_region=ALL
```

2.1.2. Example URL for the ISO Market Production Environment

To illustrate the use of the URL and its parameters, we show an example based on the pattern above. This string indicates the proper path to query the data for Trading Days beginning with the deployment of the New ISO Market:

```
http://oasis.caiso.com/oasisapi/SingleZip?queryname=AS_REQ&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&market_run_id=DAM&version=v1&as_type=ALL&version=1&as_region=ALL
```

2.2. API URL for Group Reports

The group reports depends on the servlet called GroupZip. The GroupZip is going to call a group of singleZips. The XML's embedded in the Zip file will be based on the group type. The data content will be for entire day that the user is going to be requested at a given time you can only request for single day.

To illustrate the URL and its parameters, we show the pattern that would return an XML files based on the Schemas.

```
URL?groupid=<A>&startdatetime=<D>&enddatetime=<D>&version=<A>
```

Where:

```
URL = http://<oasiswebsite>/oasisapi/GroupZip
```

```
For Production : <oasiswebsite> is oasis.caiso.com
```

```
For MAPStage : <oasiswebsite> is oasismap.caiso.com
```

Mandatory Parameters:

```
Groupid = valid groupid
```

```
startdatetime = valid operating start datetime with timezone offset (yyyymmddThh24:miZ)
```

```
enddatetime = valid operating end datetime with timezone offset (yyyymmddThh24:miZ)
```

```
(Only applicable for HASP,RTM groups)
```

```
version = API version (1 for the GMT 2013 release)
```

2.2.1 Example URL

To illustrate the use of the URL and its parameters, we show an example based on the pattern above:

```
Example 1: http://oasis.caiso.com/oasisapi/GroupZip?groupid=DAM_LMP_GRP&startdatetime=20130919T07:00-0000&version=1
```



Example 2: `http://oasis.caiso.com/oasisapi/GroupZip?groupid=HASP_LMP_GRP&startdatetime=20130919T07:00-0000&enddatetime=20130919T08:00-0000&version=1`

3. Returned XML File

For every request sent to the OASIS web server, the web server will return a “zip” compressed file. In case of single report or group zip functionality, the user then unzips the file to extract the actual XML file/ files, for further processing by any business or report generation application.

3.1 File Names for single and group

The returned files will use the following naming convention for singlezip:

```
startdate_enddate_Report Name_MktRunID_Stamp#_Version.Zip
```

Within this zip file, the XML file will use the following naming convention:

```
startdate_enddate_Report Name_MktRunID_Stamp#_Version.XML
```

The returned files will use the following naming convention for groupzip:

```
startdate_startDate_GroupID_N_xml_Version.Zip
```

Within this zip file, the XML file will use the following naming convention:

```
startdate_startdate_Report Name_MktRunID_Version.XML
```

XML Examples:

```
20131115_20131115_ENE_CB_AWARDS_GRP_N_N_v1_xml.zip
    20131115_20131115_ENE_CB_AWARDS_N_v1.xml
20131115_20131115_CURR_LMP_GRP_10_N_v1_xml.zip
    20131115_20131115_PRC_CURR_LMP_RTM_10_v1.xml
20131104_20131105_AS_REQ_RTM_20131115_09_44_44_v1_xml.zip
    20131104_20131105_AS_REQ_RTM_20131115_09_44_44_v1.xml
```

CSV Examples:

```
20131115_20131115_CURR_LMP_GRP_10_N_v1_xml.zip
    20131115_20131115_PRC_CURR_LMP_RTM_10_v1.xml
20131013_20131013_CB_NODAL_LMT_GRP_N_N_v1_csv.zip
    20131013_20131013_CB_NODAL_LIMITS_N_v1.csv
20131104_20131105_AS_REQ_RTM_20131115_09_44_44_v1_csv.zip
    20131104_20131105_AS_REQ_RTM_20131115_09_44_44_v1.csv
```



3.1.1 XML Format

The structure of the XML (eXtensible Markup Language) format file is based on standard CAISO CIM XML. It is generated by using Servlet call to the common reporting web services framework and using XSLT the xml files will be translated to CIM XML based on xml schemas. The CIM XML is zipped and sent to the requesting users as response, similar to the OASIS operation today.

OASIS will continue to comply with FERC interface requirements and associated implementation standards as it does today. The CAISO believes the use of XML provides information that is more valuable to the end user, and reduces overall development costs as changes occur in the future.

To learn more about the reporting interface and download functionality, please browse through our on-line **OASIS HELP**. Additional support can be obtained by contacting us through the **OASIS Support link**.

3.1.2 XML Schemas

Three XML schemas are developed to conform to the CIM XML standard support data delivery from the OASIS application. Each XML file, when downloaded, will point to the most current version of the Schema.

With the GMT 2013 release, all services will start with V1 and future releases will support the current and previous schemas.

For Fall 2017 release, OASISReport.xsd will be moving to version v6.

| XSD | Category | Description |
|---------------------------------|-----------------------|---|
| OASISReport_v6.xsd | OASIS Data | This is the primary schema by which OASIS returns operational and market data. |
| OASISBid_v2.xsd | Public Bids | OASIS returns Public Bid data by this schema. This schema is a derivative of the bid schema used by market participants to submit bids and schedules. |
| OASISCBBid_v2.xsd | Public CB Bids | OASIS returns CB Public Bid data by this schema. This schema is a derivative of the CB bid schema used by market participants to submit CB bids. |
| OASISMaster_v4.xsd | Atlas Data | This schema is tailored to the Atlas / Reference data portion of OASIS. |
| OASISCRRPublicBid_v1.xsd | CRR Bid Data | OASIS returns CRR Bid data by this schema. This schema is a derivative of the CRR bid schema. |
| OASISCSPOfferSet_v1.xsd | CSP Offer Set | OASIS returns CSP offer Set data by this schema. This schema is derivatinve of the CSPOfferSet schema. |



3.1.3 CSV Format

Please note that with the GMT 2013 release version, the CSV format will now return the data elements in the top down format similar to XML in terms of overall layout. There will be the header and the fields will be separated with a comma, but the pivot feature where the hours go across like in the UI is now going away.

The element in the URL resultformat=6 will extract the data in CSV format. If resultformat= element is not in the URL string, the default format will be XML.

The CSV format with the pivot hours across will continue to be supported in the pre-GMT 2013 OASIS web services.

For certain CSV reports that were pivoted across in pre-GMT services, an additional column called “group” will be added as the last column in the GMT version of the CSV reports. Here is the list of the impacted reports:

- AGGR_OUTAGE_SCH
- AS_MILEAGE_CALC
- AS_MILEAGE
- AS_REQ
- AS_RESULTS
- ATL_LDF
- ATL_PEAK_ON_OFF
- CB_NODAL_LIMITS
- CMMT_RA_MLC
- CMMT_RMR
- ENE_CB_AWARDS
- ENE_CB_CLR_AWARDS
- ENE_CB_MKT_SUM
- ENE_DISP
- ENE_EA
- ENE_LOSS
- ENE_MPM
- ENE_SLRS
- PRC_AS
- PRC_CD_INTVL_LMP



- PRC_CD_RTM_FLOWGATE
- PRC_CD_RTM_NOMOGRAM
- PRC_CNSTR
- PRC_CURR_HUB_LMP
- PRC_FLEX_RAMP

- PRC_FUEL
- PRC_GHG_ALLOWANCE
- PRC_HASP_LMP
- PRC_INTVL_AS
- PRC_INTVL_LMP
- PRC_LMP
- PRC_MPM_CNSTR_CMP
- PRC_MPM_CNSTR
- PRC_MPM_LMP
- PRC_MPM_NOMOGRAM_CMP
- PRC_MPM_NOMOGRAM
- PRC_MPM_REF_BUS
- PRC_MPM_RTM_FLOWGATE_CMP
- PRC_MPM_RTM_FLOWGATE
- PRC_MPM_RTM_LMP
- PRC_MPM_RTM_NOMOGRAM_CMP
- PRC_MPM_RTM_NOMOGRAM
- PRC_MPM_RTM_REF_BUS
- PRC_NOMOGRAM
- PRC_RTM_FLOWGATE
- PRC_RTM_NOMOGRAM
- PUB_CURR_LMP
- SLD_FCST
- SLD_REN_FCST



- TRNS_ATC
- TRNS_CURR_USAGE
- TRNS_USAGE

3.2 Errors

The XML API will throw errors based on the situation and those are described below. In the XML file, if there is any error comes because of different reasons will be thrown with both error code and error description. The Users will know the valid reason for failure. The error codes and descriptions are described below.

| Error Code | Error Description |
|------------|---|
| 1000 | No data returned for the specified selection. |
| 1001 | Invalid Parameters of the given report name. |
| 1002 | Invalid datetime format, please use valid datetime format. |
| 1003 | Timed out waiting for query response. |
| 1004 | Data can be requested for period of 31 days only. |
| 1005 | Report name does not exist, please use valid report name. |
| 1006 | Validation exception during transformation of XML. |
| 1007 | Required file for does not exist. |
| 1008 | Out of memory exception. |
| 1009 | Exceptions in reading and writing of XML files. |
| 1010 | System Error. |
| 1011 | Empty Query; Please Enter Report Name, Startdate, EndDate and Other Parameters. |
| 1012 | Connection refused. |
| 1013 | Required Resources (xslt or xml or dir) Unavailable. |
| 1014 | Start Date is beyond the limit, Please Use valid Start Date that falls within the prescribed limit. |
| 1015 | GroupZip DownLoad is in Processing, Please Submit request after Sometime |
| 1016 | GROUPID Does Not Exist, Please Use Valid GROUPID Name |



- 1017 Please select a maximum of 10 nodes or use the ALL option
- 1018 Invalid Selection, cannot select multiple hours for this query
- 1019 market_term=ALL not supported for this query
- 1020 Version parameter is missing or is invalid

4. Recommended Usage

By observing the Publication and Revisions Log and Publication Schedule reports, users can submit the requests more efficiently. We strongly recommend first to find out whether the data is already published to the OASIS database. Once the required data is published then submit the requests for the required reports. This way the user can eliminate unnecessary requests for the required data.

5. Reports and Xml Data Items

This section contains an overview listing of the individual types of result sets returned from OASIS, corresponding to the online OASIS reports.

| Report/ResultSet | XML Name | XML Data Items | Description |
|---|---------------|---|--|
| PRICES | | | |
| <p>Locational Marginal Prices (LMP) Hourly Locational Marginal Prices for all PNodes and APNodes in \$/MWh. For the DAM, posts the LMP, plus the Congestion, Loss and Energy Components that make up the LMP. For the RUC, only the LMP will be posted. Oasis will include separate XML file for each price component within the same zip file. This is existing functionality.</p> | PRC_LMP | LMP_CONG_PRC LMP_ENE_PRC LMP_LOSS_PRC LMP_PRC | LMP - Congestion Component; LMP - Energy Component; LMP - Losses Component; LMP for each Pnode and APnode; |
| <p>Scheduling Point Tie Combination Locational Marginal Prices (LMP) Scheduling Point Tie Combination Locational Marginal Prices for market DAM, RTPD/FMM, and RTD in \$/MWh. Oasis will include separate XML file for each price component within the same zip file. This is current behavior for DAM. This behavior will be extended for other realtime markets in version 5.</p> | PRC_SPTIE_LMP | LMP_CONG_PRC LMP_PRC LMP_ENE_PRC LMP_LOSS_PRC LMP_GHG_PRC | LMP - Congestion Component; LMP for each node tie combination; LMP - Energy Component; LMP - Losses Component LMP - GHG Component |
| <p>HASP Locational Marginal Prices (LMP) Posts hourly, the 4 15-minute Locational Marginal Prices in \$/MWh, for the HASP hour. Posts the LMP, plus the Congestion, Loss and Energy Components that make up the LMP. Posts the HASP <i>Binding</i> LMP for PNodes and APNodes relevant to Hourly Pre-Dispatched Resources. Posts the HASP <i>Advisory</i> LMP for PNodes and APNodes relevant to the Non-Hourly Pre-Dispatch Resources.</p> | PRC_HASP_LMP | LMP_CONG_PRC LMP_ENE_PRC LMP_LOSS_PRC LMP_PRC LMP_GHG_PRC | LMP - Congestion Component; LMP - Energy Component; LMP - Losses Component; LMP for each Pnode and APnode GHG price for EIM pnode and apnode |



| Report/ResultSet | XML Name | XML Data Items | Description |
|--|---------------|--|--|
| <p>For HASP, SC's should always utilize the CMRI posted price as the valid price for shadow-settlement purposes.</p> <p>Oasis will include separate XML file for each price component within the same zip file. This is current behavior for DAM. This behavior will be extended for other realtime markets in version 3.</p> | | | |
| <p>RTPD Locational Marginal Prices (LMP) 15-minute Locational Marginal Prices for all PNodes and APNodes in \$/MWh.</p> <p>Oasis will include separate XML file for each price component within the same zip file. This is current behavior for DAM. This behavior will be extended for other realtime markets in version 3.</p> | PRC_RTPD_LMP | LMP_CONG_PRC LMP_ENE_PRC LMP_LOSS_PRC LMP_PRC LMP_GHG_PRC | LMP - Congestion Component; LMP - Energy Component; LMP - Losses Component; LMP for each Pnode and APnode GHG price for EIM pnode and apnode |
| <p>Interval Locational Marginal Prices (LMP) Five-minute Locational Marginal Prices for all PNodes and all APNodes in \$/MWh, for each five-minute interval RTM. Posts the LMP, plus the Congestion, Loss and Energy Components that makes up the LMP.</p> <p>Node on the report will include Pnodes and APnodes in ISO, EIM and non-EIM external networks</p> <p>Oasis will include separate XML file for each price component within the same zip file. This is current behavior for DAM. This behavior will be extended for other realtime markets in version 3.</p> | PRC_INTVL_LMP | LMP_CONG_PRC LMP_ENE_PRC LMP_LOSS_PRC LMP_PRC LMP_GHG_PRC | LMP - Congestion Component; LMP - Energy Component; LMP - Losses Component; LMP for each Pnode and APnode; GHG price for EIM pnode and apnode |
| <p>AS Clearing Prices Ancillary Services Regional Shadow Prices for all Ancillary Service types at each AS Region and Sub-Regional Partition. Posted hourly in \$/MW for the DAM and HASP.</p> | PRC_AS | NS_CLR_PRC RD_CLR_PRC RU_CLR_PRC SP_CLR_PRC RMD_CLR_PRC RMU_CLR_PRC | NonSpin Cleared Price; Regulation Down Cleared Price; Regulation Up Cleared Price; Spin Cleared Price; Regulation Mileage Down Cleared Price. Regulation Mileage Up Cleared Price |
| <p>Interval AS Clearing Prices Ancillary Services Regional Shadow Prices for all Ancillary Service types at each AS Region and Sub-Regional Partition. Posts in \$/MW. Posts 15-Minute price relevant to the next 15 minute binding interval for RTM on a fifteen minute basis.</p> | PRC_INTVL_AS | NS_CLR_PRC RD_CLR_PRC RU_CLR_PRC SP_CLR_PRC RMD_CLR_PRC RMU_CLR_PRC | NonSpin Cleared Price; RegulationDown Cleared Price; RegulationUp Cleared Price; Spin Cleared Price; Regulation Mileage Down Cleared Price. Regulation Mileage Up Cleared Price. |



| Report/ResultSet | XML Name | XML Data Items | Description |
|--|------------------|---|---|
| <p>Intertie Constraint Shadow Prices</p> <p>Posts the hourly constraint pricing at Transmission Interfaces and Intertie Constraints, for each Market Process (DAM,HASP) in \$/MWh, and the 15-Minute Shadow Price in \$/MWh for the RTM.</p> <p>Report will also include an indication of whether the Constraints were binding because of the base operating conditions or contingencies, and if caused by a Contingency, the identity of the specific Contingency.</p> <p>Transmission ID includes both ISO and EIM ITC ID</p> | PRC_CNSTR | SHADOW_PRC REASON | Shadow price by Transmission Interface and Intertie Constraint Will indicate either "Base Case" or specific Contingency ID. |
| <p>Fuel Prices</p> <p>For each Gas Flow Day, lists the gas price in \$/mmBtu by fuel region.</p> | PRC_FUEL | FUEL_PRC | Daily Gas Price. |
| <p>Current Locational Marginal Price</p> <p>This report is available for download only. Lists Five min Locational Marginal Prices for all Generator PNodes and all APNodes for the current interval. (Returns the most recently posted interval only) Use SingleZip function if specific nodes are required; use GroupZip for downloading if all nodes are required.</p> <p>Node on the report will include Pnodes and APnodes in ISO, EIM and non-EIM external networks</p> | PRC_CURR_LMP | LMP_CONG_PRC LMP_ENE_PRC LMP_LOSS_PRC LMP_PRC LMP_GHG_PRC | LMP - Congestion Component; LMP - Energy Component; LMP - Losses Component; LMP for each Pnode and APnode; GHG price for EIM pnode and apnode |
| <p>Nomogram/Branch Shadow Prices</p> <p>Posts the hourly constraint pricing at each Nomogram and Branch, for each Market Process (DAM, HASP) in \$/MWh, and the 15-Minute Shadow Price in \$/MWh for the RTPD in RTM.</p> <p>Report will also include an indication of whether the Constraints were binding because of the base operating conditions or contingencies, and if caused by a Contingency, the identity of the specific Contingency.</p> | PRC_NOMOGRAM | SHADOW_PRC <m:REASON> | Shadow price by Nomogram or Branch. Will indicate either "Base Case" or specific Contingency ID. |
| <p>Interval Nomogram/Branch Shadow Prices</p> <p>Posts the 5 minute constraint pricing at each Nomogram and Branch, for each Market Process (RTM) in \$/MWh.</p> <p>Report will also include an indication of whether the Constraints were binding because of the base operating conditions or contingencies, and if caused by a Contingency, the identity of the specific Contingency.</p> | PRC_RTM_NOMOGRAM | SHADOW_PRC <m:REASON> | Shadow price by Nomogram or Branch. Will indicate either "Base Case" or specific Contingency ID. |



| Report/ResultSet | XML Name | XML Data Items | Description |
|--|----------------------------|--|--|
| <p>Interval Intertie Constraint Shadow Prices Posts the 5 minute constraint pricing at Transmission Interfaces and Intertie Constraints in \$/MWh Report will also include an indication of whether the Constraints were binding because of the base operating conditions or contingencies, and if caused by a Contingency, the identity of the specific Contingency.</p> | PRC_RTM_FLOWG ATE | SHADOW_PRC REASON | Shadow price by Transmission Interface and Intertie Constraint) Will indicate either "Base Case" or specific Contingency ID. |
| <p>Scheduling Constraint Shadow Prices Posts the 15 minute and 5 minute scheduling constraint shadow prices in \$/MWh</p> | PRC_RTM_SCH_C NSTR | SHADOW_PRC CNSTR_TYPE | Shadow price by Scheduling Constraint Some of the possible values are BAA TRANSFER UPPER LIMIT ETSR UPPER LIMIT ETSR LOWER LIMIT BAA TRANSFER LOWER LIMIT BAA TRANSFER UPPER LIMIT BAA TRANSFER DISTRIBUTION BAA POWER BALANCE BAA TRANSFER LOWER LIMIT ETSR TRANSMISSION COST |
| <p>Reference Prices Quarterly Reference prices associated with each node based on historical data, posted for Convergence Bidding purposes.</p> | PRC_DS_REF | SPLY_PRC DMD_PRC | Supply Component Demand Component |
| <p>Nodal Group Constraints This report displays the upper and lower MW limits, cleared MW value and associated hourly shadow prices for any binding Nodal Group Constraint. Additionally, the list of Eligible Pnodes included in the Nodal Group Constraint is displayed. This report is triggered with the publication of the Day-Ahead results.</p> | CB_NODAL_GRP_ CNSTR_PRC | SHADOW_PRC CLEARED_MW MAXIMUM_LIMIT MINIMUM_LIMIT | Shadow price by Nodal Constraint Group Cleared Price Maximum Limit of the Price Minimum Limit of the Price |
| <p>System Ramping Nomogram Results</p> | PRC_FLEX_RAMP | MKT_RUN_START_TIME | Indicates the start time of the market run in pacific Time format |



| Report/ResultSet | XML Name | XML Data Items | Description |
|---|------------------|--|---|
| | | MKT_TYPE RAMP_UP_CAP_REQ RAMP_UP_SHADOW_PRC RAMP_DOWN_CAP_REQ RAMP_DOWN_SHADOW_PRC BAA_GRP_ID | An identifier which specifies the market run type (DAM.RTPD& RTD) Upward raming capacity nomogram results Shadow price of the upward ramping nomogram results Downward ramping capacity nomogram results. Shadow price of the downward nomogram results. EIM Area group ids (ISO, PACE, PACW, ISO_PACW, ISO_PACE, PACE_PACW,ISO_PACW_PACE) |
| Contingency Dispatch Locational Marginal Prices Similar to the Interval Locational Marginal Prices (LMP) report, but for Real Time Contingency Dispatch (RTCD) runs. Posts the ten-minute Locational Marginal Prices for PNodes and APNodes in \$/MWh, for each ten-minute interval RTCD. | PRC_CD_INTVL_LMP | LMP_CONG_PRC LMP_ENE_PRC LMP_LOSS_PRC | LMP Marginal Cost of Congestion for ten-minute Contingency Dispatch. LMP Marginal Cost of Energy for ten-minute Contingency Dispatch. LMP Marginal Cost of Losses for ten-minute Contingency Dispatch. |



| Report/ResultSet | XML Name | XML Data Items | Description |
|---|---------------------|--|---|
| <p>Contingency Dispatch Scheduling Point Tie Combination Locational Marginal Prices</p> <p>This is for Real Time Contingency Dispatch (RTCD) runs. Posts the ten-minute Locational Marginal Prices for node tie in \$/MWh, for each ten-minute interval RTCD.</p> | PRC_CD_SPTIE_LMP | LMP_CONG_PRC LMP_PRC LMP_ENE_PRC LMP_LOSS_PRC LMP_GHG_PRIC | LMP - Congestion Component; LMP for each node tie combination; LMP - Energy Component; LMP - Losses Component LMP – GHG Component |
| <p>Contingency Dispatch Intertie Constraint Shadow Prices</p> <p>Similar to the Interval Intertie Constraint Shadow Prices report, but for Real Time Contingency Dispatch (RTCD) runs. Posts the 10-Minute constraint pricing at Transmission Interfaces and Intertie Constraints in \$/MWh, for the RTCD run in the RTM. Report will also include an indication of whether the Constraints were binding because of the base operating conditions or contingencies, and if caused by a Contingency, the identity of the specific Contingency.</p> | PRC_CD_RTM_FLOWGATE | SHADOW_PRC REASON | Shadow price by Transmission Interface and Intertie Constraint for ten-minute Contingency Dispatch. Will indicate either “Base Case” or specific Contingency ID. |
| <p>Contingency Dispatch Nomogram/Branch Shadow Prices</p> <p>Similar to the Interval Nomogram/Branch Shadow Prices report, but for Real Time Contingency Dispatch (RTCD) runs. Posts the 10-Minute constraint pricing at each Nomogram and Branch in \$/MWh, for the RTCD run in the RTM. Report will also include an indication of whether the Constraints were binding because of the base operating conditions or contingencies, and if caused by a Contingency, the identity of the specific Contingency.</p> | PRC_CD_RTM_NOMOGRAM | SHADOW_PRC REASON | Shadow price by Nomogram or Branch for ten-minute Contingency Dispatch. Will indicate either “Base Case” or specific Contingency ID. |
| <p>MPM DA Locational Marginal Prices (LMP):</p> <p>Hourly Locational Marginal Prices from the Day-Ahead MPM run for all PNodes and APNodes in \$/MWh. Posts the LMP, plus the Competitive Congestion, Non-Competitive Congestion, Loss and Energy Components that make up the LMP.</p> | PRC_MPM_LMP | LMP_PRC LMP_CONG_CC_PRC LMP_CONG_NC_PRC LMP_ENE_PRC LMP_LOSS_PRC | LMP for each nodes LMP - Competitive Congestion Component LMP- Non-Competitive Congestion Component LMP - Energy Component LMP - Losses Component |
| <p>MPM RT Locational Marginal Prices (LMP):</p> | PRC_MPM_RTM_LMP | LMP_PRC LMP_CONG_CC_PRC | LMP for each nodes LMP - Competitive Congestion Component |



| Report/ResultSet | XML Name | XML Data Items | Description |
|---|--------------------------|--|---|
| <p>Posts hourly, the 4 15-minute Locational Marginal Prices from the HASP MPM run for all PNodes and APNodes in \$/MWh.</p> <p>OR</p> <p>Posts every 15 minutes, the 15-minute Locational Marginal Prices from the RTPD MPM run for all PNodes and APNodes in \$/MWh.</p> <p>Posts the LMP, plus the Competitive Congestion, Non-Competitive Congestion, Loss and Energy Components that make up the LMP.</p> | | <p>LMP_CONG_NC_PRC</p> <p>LMP_ENE_PRC</p> <p>LMP_LOSS_PRC</p> <p>LMP_GHG_PRC</p> | <p>LMP- Non-Competitive Congestion Component</p> <p>LMP - Energy Component</p> <p>LMP - Losses Component</p> <p>LMP - GHG Component</p> |
| <p>MPM Nomogram/Branch Shadow Prices (DAM):</p> <p>Posts the hourly constraint pricing at each binding Nomogram and Branch, for Day Ahead MPM run in \$/MWh. Report will also include an indication of whether the Constraints were binding because of the base operating conditions or contingencies, and if caused by a Contingency, the identity of the specific Contingency.</p> | PRC_MPM_NOMOGRAM | <p>SHADOW_PRC</p> <p><m:REASON></p> | <p>Shadow price by Nomogram or Branch.</p> <p>Will indicate either "Base Case" or specific Contingency ID.</p> |
| <p>MPM Nomogram/Branch Shadow Prices (RTM):</p> <p>Posts hourly, 4 15-minute interval constraint pricing at each binding Nomogram and Branch, for HASP MPM run in \$/MWh</p> <p>OR</p> <p>Posts every 15 minutes, 15-minute interval constraint pricing at each binding Nomogram and Branch, for RTPD MPM run in \$/MWh.</p> <p>Report will also include an indication of whether the Constraints were binding because of the base operating conditions or contingencies, and if caused by a Contingency, the identity of the specific Contingency.</p> | PRC_MPM_RTM_NOMOGRAM | <p>SHADOW_PRC</p> <p><m:REASON></p> | <p>Shadow price by Nomogram or Branch.</p> <p>Will indicate either "Base Case" or specific Contingency ID.</p> |
| <p>MPM Nomogram/Branch Competitive Paths (DAM):</p> <p>Posts the hourly results of the dynamic competitiveness constraint for the Day-Ahead MPM run, for nomograms and flowgates. Posts a flag indicating whether each binding constraint was competitive or not</p> | PRC_MPM_NOMOGRAM_CMP | MPM_CMP_STATUS_FLG | Competitive Path indicator (Y/N) |
| <p>MPM Nomogram/Branch Competitive Paths (RTM):</p> | PRC_MPM_RTM_NOMOGRAM_CMP | MPM_CMP_STATUS_FLG | Competitive Path indicator (Y/N) |



| Report/ResultSet | XML Name | XML Data Items | Description |
|---|--------------------------|--------------------------|--|
| <p>Posts the hourly 4 15-minute interval results of the dynamic competitiveness constraint for the HASP MPM run for nomograms and flowgates. Posts a flag indicating whether each binding constraint was competitive or not.</p> <p>OR</p> <p>Posts every 15 minutes, the 15-minute interval results of the dynamic competitiveness constraint for the RTPD MPM run for nomograms and flowgates. Posts a flag indicating whether each binding constraint was competitive or not.</p> <p>OR</p> <p>Posts every 5 minutes, the 5-minute interval results of the dynamic competitiveness constraint for the RTD MPM run for nomograms and flowgates. Posts a flag indicating whether each binding constraint was competitive or not.</p> | | | |
| <p>MPM Intertie Constraint Shadow Prices (DAM):</p> <p>Posts the hourly constraint pricing at Transmission Interfaces and Intertie Constraints, for Day Ahead market MPM run in \$/MWh. Report will also include an indication of whether the Constraints were binding because of the base operating conditions or contingencies, and if caused by a Contingency, the identity of the specific Contingency.</p> | PRC_MPM_CNSTR | SHADOW_PRC REASON | Shadow price by Transmission Interface and Intertie Constraint Will indicate either "Base Case" or specific Contingency ID. |
| <p>MPM Intertie Constraint Shadow Prices (RTM):</p> <p>Posts the hourly, the 4 15-minute interval constraint pricing at Transmission Interfaces and Intertie Constraints, for HASP market MPM run in \$/MWh.</p> <p>OR</p> <p>Posts every 15 minutes, the 15-minute interval constraint pricing at Transmission Interfaces and Intertie Constraints, for RTPD market MPM run in \$/MWh</p> <p>Report will also include an indication of whether the Constraints were binding because of the base operating conditions or contingencies, and if caused by a Contingency, the identity of the specific Contingency</p> | PRC_MPM_RTM_F LOWGATE | SHADOW_PRC REASON | Shadow price by Transmission Interface and Intertie Constraint Will indicate either "Base Case" or specific Contingency ID. |
| <p>MPM Intertie Constraint Competitive Paths (DAM):</p> <p>OR</p> <p>For HASP MPM run, posted hourly the 4 15 minute interval results.</p> <p>OR</p> <p>For RTPD MPM run, posted every 15 minutes, the 15 minute interval results</p> | PRC_MPM_CNSTR _CMP | MPM_CMP_STATUS_FLG | Competitive Path indicator (Y/N)) |



| Report/ResultSet | XML Name | XML Data Items | Description |
|--|---------------------|--|--|
| <p>OR</p> <p>For RTD MPM run, posted every 5 minutes, the 5 minute interval results.</p> <p>Posts the results of the dynamic competitiveness constraint for the market MPM run, for interchanges, market scheduling limits, and branch groups. Posts a flag indicating whether each binding constraint was competitive or not.</p> | | | |
| <p>MPM Reference Bus (DAM) :</p> <p>Posts the reference bus used in the MPM run. Posted hourly for the Day-Ahead market.</p> <p>Note, the IFM, RUC, and regular HASP runs use a distributed reference bus.</p> | PRC_MPM_REF_BUS | REFERENCE_BUS_ID | Reference Bus Name |
| <p>MPM Reference Bus (RTM) :</p> <p>Posts the reference bus used in the MPM run. Posted hourly, the 4 15-minute interval for the HASP market.</p> <p>OR</p> <p>Posted every 15 minutes, the 15-minute interval data for the RTPD market.</p> <p>OR</p> <p>Posted every 5 minutes, the 5-minute interval data for the RTD market.</p> <p>Note, the IFM, RUC, and regular HASP runs use a distributed reference bus.</p> | PRC_MPM_RTMEF_BUS | REFERENCE_BUS_ID | Reference Bus Name |
| <p>Greenhouse Gas Allowance Price</p> <p>For each real-time trade date, posts the index price for the California Carbon Allowance and for day-ahead bids, use the index price from the previous day's index price</p> | PRC_GHG_ALLOWANCE | OPR_DATE GHG_ALLOWANCE_PRC | The operating date. Greenhouse gas allowance price index value |
| <p>EIM GHG Shadow Prices</p> <p>GHG shadow price of the net imbalance energy export</p> | PRC_EIM_GHG | INTERVAL_START_GMT INTERVAL_END_GMT MKT_TYPE PRC_SHADOW | Interval Start time (GMT) Interval End time (GMT) RTPD and RTD EIM GHG Shadow price |
| <p>MPM Default Competitive Path Assessment List</p> | PRC_MPM_DEFAULT_CMP | DATA_ITEM OPR_DATE CONSTRAINT_GROUP_NAME COMPETITIVE_FLAG | PRC_MPM_DEFAULT_CMP Opr Date Constraint Group Name Competitive Flag (Y or N) |
| <p>Hourly RTM LAP prices</p> | PRC_RTMLAP | LMP_CONG_PRC | Hourly Real Time Market LAP Marginal Cost of Congestion (MCC) for Apnode |



| Report/ResultSet | XML Name | XML Data Items | Description |
|--|---------------------|---|--|
| <p>The Hourly Real-Time LAP Price for each Custom and Default Load Aggregation Point (DLAP).</p> <p>The Hourly Real-Time LAP price data is downloadable to XML and CSV only, for a single day at a time.</p> <p>Hourly Real-Time LAP price includes Total (LMP), Energy (MCE), Congestion (MCC) and Loss (MCL) price components.</p> <p>Oasis will include separate XML file for each price component within the same zip file.</p> | | <p>LMP_ENE_PRC</p> <p>LMP_LOSS_PRC</p> <p>LMP_PRC</p> <p>LMP_GHG_PRC</p> | <p>Hourly Real Time Market LAP System Marginal Energy Cost (MCE) for Apnode</p> <p>Hourly Real Time Market LAP Marginal Cost of Losses (MCL) for Apnode</p> <p>Hourly Real Time Market LAP total (LMP) Price for Apnode</p> <p>Hourly Real Time Market LAP LMP - GHG Component</p> |
| TRANSMISSION | | | |
| <p>Current Transmission Usage</p> <p>Consolidated report for Current transmission capacity and usage per Transmission Interface. Starts with 7-days ahead and is updated continuously as outages occur.</p> <p>AS, Energy and ETC/TOR utilization values are updated in conjunction with the publication of the DAM and RTM market results.</p> <p>Note: This API will updated to return only the current trade date and/or future trade date. It will return an error if used for historical trade date.</p> | TRNS_CURR_USA GE | <p>ATC_MW</p> <p>AS_IMPORT_MW</p> <p>ENE_IMPORT_MW</p> <p>CBM_MW</p> <p>OTC_MW</p> <p>TTC_MW</p> <p>CONSTRAINT_MW</p> <p>USAGE_MW</p> <p>TRM_MW</p> <p>TRM_UF_MW</p> <p>TRM_FTO_MW</p> <p>TRM_SPI_MW</p> <p>MKT_XFER_CAP_MW</p> | <p>Current Hourly/15-min ATC; Current Hourly/15-min Tagged AS from Imports;</p> <p>Current Hourly/15-min Tagged Net Energy from Imports / Exports;</p> <p>Current Hourly/15-min CBM; Current Hourly/15-min OTC; This refers to the "Hourly TTC" value</p> <p>Current Hourly/15-min TTC; This refers to the "Seasonal TTC" value</p> <p>Current Hourly Constraint; Current Hourly Unused TR Capacity</p> <p>Total TRM</p> <p>Unscheduled Flow</p> <p>Forced Topology outages</p> <p>Simultaneous Path Interaction</p> <p>Market Transfer Capability</p> |
| <p>Market Available Transmission Capacity</p> <p>Available Transmission Capacity per Transmission Interface for DAM, HASP, RTPD. ATC = OTC (TTC-CBM-Constraint)-AS From Imports-Net Energy flow from Imports/Exports-Unscheduled Transmission Rights capacity.</p> | TRNS_ATC | ATC_MW | DAM Hourly or HASP 15-minute or RTPD 15-minute ATC |
| <p>Transmission Outages</p> <p>List planned and actual Transmission Outage events per Transmission Interface and direction. Updated with every outage event.</p> | TRNS_OUTAGE | OUTAGE_LIMIT_MW | Curtailed Line Rating for each Transmission Interface MW. |



| Report/ResultSet | XML Name | XML Data Items | Description |
|--|-------------------------------|----------------|--|
| Transmission Interface Usage Consolidated report for transmission capacity, usage, ETC/TOR utilization and schedules resulting from CAISO market operations for DAM,HASP or RTPD by Transmission Interface. | TRNS_USAGE | ATC_MW | DAM Hourly or HASP 15-minute or RTPD 15-minute ATC; |
| | | AS_IMPORT_MW | DAM Hourly or HASP 15-minute or RTPD 15-minute DAM Hourly or HASP Hourly or RTPD 15-minute Tagged AS from Imports; |
| | | ENE_IMPORT_MW | DAM Hourly or HASP 15-minute or RTPD 15-minute Tagged Net Energy from Imports / Exports; |
| | | CBM_MW | DAM Hourly or HASP 15-minute or RTPD 15-minute CBM; |
| | | OTC_MW | DAM Hourly or HASP 15-minute or RTPD 15-minute OTC; For Fall Release 2012, data item name will not be changed, yet going forward will refer to the "Hourly TTC" value |
| | | TTC_MW | DAM Hourly or HASP Hourly or RTPD 15-minute TTC; For Fall Release 2012, data item name will not be changed, yet going forward will refer to the "Seasonal TTC" value |
| | | CONSTRAINT_MW | DAM Hourly or HASP 15-minute or RTPD 15-minute Constraint; |
| | | USEAGE_MW | DAM Hourly or HASP 15-minute or RTPD 15-minute Unused TR Capacity |
| | | TRM_MW | Total TRM |
| | | TRM_UF_MW | Unscheduled Flow |
| TRM_FTO_MW | Forced Topology outages | | |
| TRM_SPI_MW | Simultaneous Path Interaction | | |
| SYSTEM DEMAND | | | |
| CAISO Peak Demand Forecast | SLD_FCST_PEAK | SYS_PEAK_MW | The forecast peak demand in MW for the Forecast Day. |



| Report/ResultSet | XML Name | XML Data Items | Description |
|--|--------------|--|---|
| <p>Peak Demand Forecast per CAISO control area total. Posting begins at 7 days before Trading Day. Also posts Peak Demand Forecast by TAC Area.</p> | | | |
| <p>CAISO Demand Forecast Daily posting for the 2-DA,7-DA hourly forecast, DAM hourly forecast by TAC area.</p> <p>Hourly posting for the hourly Actual Demand by TAC area.</p> <p>15-minute posting for the RTPD markets by TAC area.</p> <p>RTM 5-Minute Load Forecast is posted every five minutes, for the next 11 intervals. The postings occur every 5-minutes for a rolling 11 interval period.</p> | SLD_FCST | <p>SYS_FCST_DA_MW</p> <p>SYS_FCST_2DA_MW</p> <p>SYS_FCST_7DA_MW</p> <p>SYS_FCST_ACT_MW</p> <p>SYS_FCST_15MIN_MW</p> <p>SYS_FCST_5MIN_MW</p> | <p>The forecast MW demand for each hour of the Operating Day, posted in the morning the day before the Operating Day, before the markets run;</p> <p>The forecast MW demand for each hour of the Operating Day, posted two days before the Operating day;</p> <p>The forecast MW demand for each hour of the Operating Day, posted seven days before the Operating day;</p> <p>The actual demand measurement by Hourly basis</p> <p>The forecast MW demand for 15 minute intervals</p> <p>The VSTLF forecast MW demand used for the Operating Interval, for use in RTID</p> |
| <p>Advisory CAISO Demand Forecast</p> <p>RTPD 15-minute advisory Load Forecast is posted every 15 minutes.</p> <p>RTM 5-Minute advisory Load Forecast is posted every five minutes.</p> | SLD_ADV_FCST | SYS_ADV_FCST_MW | The "first" advisory interval forecast MW demand for 15 or 5 minute intervals |
| <p>Wind and Solar Forecast</p> | SLD_REN_FCST | <p>RENEW_FCST_DA_MW</p> <p>RENEW_FCST_HASP_MW</p> <p>RENEW_FCST_ACT_MW</p> <p>RENEW_FCST_5MIN_MW</p> <p>RENEW_FCST_15MIN_MW</p> <p>TRADING_HUB</p> | <p>The forecast MW value for each hour of the Operating Day, posted in the morning the day before the each markets run</p> <p>The trading hub name. Valid values are NP15,SP15,ZP26 and ALL</p> |



| Report/ResultSet | XML Name | XML Data Items | Description |
|--|--------------------------|--|---|
| Forecast and actual wind and solar generation by hour. Aggregated by trading hub (NP15, ZP26, and SP15). Day-Ahead forecast is posted daily in advance of the Day-Ahead Market, Hour-Ahead forecast is posted in advance of each HASP market. RTPD forecast is posted in advance of each RTPD market run by 15-minute intervals. RTD forecast is posted in advance of each RTD run by 5-minute intervals. Actual production is posted the day after the operating day. Note: to ensure a high level of accuracy only Eligible Intermittent Resources (EIR), including those that participate in the Participating Intermittent Resource program (PIRP) are included in the report | | RENEWABLE_TYPE | Renewable Type include one of the following - "Wind" (Include: Wind PIRP & EIR resources). - "Solar" (Include: Solar PIRP & EIR resources). |
| Sufficiency Evaluation Demand Forecast Unbiased hourly and 15-minute load forecast. Provides a 7-day publication period data availability. | SLD_SF_EVAL_DM D_FCST | BAA_ID GRANULARITY FCST_PUBLICATION_GMT INTERVAL_START_GMT FCST_MW | Balancing Authority Area Identifier Corresponds to the HOURLY or 15MIN level forecast Timestamp on when the forecast is published for the upcoming horizon, GMT Start time of the interval, GMT Forecast in MW unit |
| ENERGY | | | |
| System Load and Resource Schedules Balanced System Load, Generation, Import and Export per TAC Area, and for CAISO total. Posts results for DAM, RUC Capacity, HASP and 5-Minute RTM, as indicated below: DAM Load, Generation, Import and Export Schedules per TAC Area and CAISO total for each Operating Hour, in MW. RUC Capacity from Generation and Imports for each TAC Area and CAISO total for each Operating Hour, in MW Hour-Ahead Scheduling Process (HASP) Import and Export per TAC Area and CAISO total, in MW. 5 minute RTM Generation, Import and Export per TAC Area and CAISO total, in MW. | ENE_SLRS | ISO_TOT_GEN_MW ISO_TOT_LOAD_MW ISO_TOT_IMP_MW ISO_TOT_EXP_MW TOT_GEN_MW TOT_LOAD_MW TOT_IMP_MW TOT_GEN_MW | ISO Total MW cleared as Generation in DAM, RUC, HASP, RTM. ISO Total MW cleared as Demand in DAM, HASP, RTM. ISO Total MW cleared as imports in DAM, RUC, HASP, RTM. ISO Total MW cleared as Exports in DAM, HASP, RTM. Total MW cleared as Generation in DAM, RUC, HASP, RTM, by TAC Area. ISO Total MW cleared as Demand in DAM, HASP, RTM, by TAC Area. ISO Total MW cleared as imports in DAM, RUC, HASP, RTM, by TAC Area. |



| Report/ResultSet | XML Name | XML Data Items | Description |
|--|-------------|---|--|
| | | | ISO Total MW cleared as Exports in DAM, HASP, RTM, by TAC Area. |
| <p>Expected Energy</p> <p>After-the-Fact Energy Accounting, per Energy Type. Posted daily at T+1, in MWh for ISO total.</p> <p>Please refer to the table in the BPM for Market Operations, Appendix C.4 for the complete list of valid Expected Energy Types.</p> | ENE_EA | DASE_MWH DSSE_MWH DABE_MWH OE_MWH HASE_MWH SRE_MWH RED_MWH EDE_MWH RMRE_MWH MSSLFE_MWH RE_MWH MLE_MWH SE_MWH RTSSE_MWH DMLE_MWH PE_MWH TEE_MWH BASE_MWH MDE_MWH | ISO Total MW cleared as Exports in DAM, HASP, RTM, by TAC Area. DA Scheduled Energy DA Self-Scheduled Energy DA Bid Award Energy Optimal Energy HourAhead Scheduled Energy Standard Ramping Energy Ramping Energy Deviation Exceptional Dispatch Energy RMR Energy MSS Load Following Energy Residual Energy Minimum Load Energy SLIC Energy RT Self Scheduled Energy DA Minimum Load Energy Pumping Energy Total Expected Energy Base Schedule Energy EIM Manual Dispatch Energy |
| <p>Market Power Mitigation Status</p> <p>Mitigation Indicator showing whether any bids were replaced by Reference Curves. Value will be "Y" or "N".</p> | ENE_MPM | MPM_STATUS_FLG BAA_ID | Indicator whether mitigation occurred in that Operating Interval One of more EIM BAA ID |
| <p>RMR</p> <p>Pre-Dispatched and MPM Determined RMR capacity (MW) summed for all resources, for the DAM and RTM market processes.</p> | CMMT_RMR | DISPATCH_MW TOT_AVAIL_MW DETER_MW | The RMR capacity dispatched ahead of the Market. Total RMR capacity available to the market in that hour. RMR capacity determined by MPM before market run. |
| <p>Exceptional Dispatch</p> <p>Summary of Exceptional Dispatch Data. Posted daily at T+1, in MWh by TAC area and Instruction Type.</p> <p>Please refer to the table in the BPM for Market Operations, Appendix C.4 for the complete list of valid Exceptional Dispatch Instruction Types.</p> | ENE_DISP | EXPT_DIS_PRC EXPT_DIS_MWH | Exceptional Dispatch Price. Exceptional Dispatch MW |
| <p>Marginal Losses</p> <p>CAISO Total Marginal Loss costs (\$) and Total System losses (MWh). Posted hourly for the DAM and HASP.</p> | ENE_LOSS | TOT_LOSS_PRC TOT_LOSS_MW | Total costs incurred due to Losses in this hour/interval. Total MWh lost |
| <p>Resource Adequacy and Minimum Load</p> <p>Commitment data for each market. All data for all markets posted daily at T+1. All commitment data is related to ISO committed resources.</p> | CMMT_RA_MLC | RA_CAP_COMM_MW MIN_LD_MW RA_MLC_PRC MIN_LD_MLC_PRC TOT_STRT_CST_PRC | RA Capacity Committed Minimum Load RA Minimum Load Cost (MLC) Minimum Load cost Total Start Up Cost |



| Report/ResultSet | XML Name | XML Data Items | Description |
|---|-------------------|---|--|
| | | RA_STRT_PRC RA_COMM_UNITS_CNT TOT_COMM_UNITS_CNT TOT_COMM_CAP_MW | RA Start-Up Cost RA Number of Units Committed Total Number of Units Committed Total Capacity Committed |
| Convergence Bidding Aggregate Awards Posts Day Ahead CAISO aggregate Virtual Bidding Awards for Energy for Supply & Demand Publishes with the Day Ahead Market results | ENE_CB_AWARDS | ISO_TOT_SPLY_MW ISO_TOT_DMD_MW | Supply Component Demand Component |
| Net Cleared Convergence Bidding Awards Posts Net Cleared MW for Virtual Bids for every Virtual Bidding Node per Trade Hour within a Trading Day including Trading Hubs and default LAPs. This report will post after all Real Time markets have closed for the associated Trading Day. Posts Convergence Bidding Supply Awards, Less Convergence Bidding Demand Awards per node. Under this convention, positive net cleared virtual quantities will indicate net Virtual Supply, whereas negative net cleared virtual quantities will indicate net Virtual Demand at a given node. A value of null Net Cleared Virtual quantities at a given node will indicate no virtual bids submitted at that node while a value of zero will indicate virtual supply and demand Awards netted to zero. | ENE_CB_CLR_AWARDS | ENE_CB_CLR_MW | Cleared MW |
| Day Ahead Market Summary Summary of the Day Ahead market showing physical and virtual breakdowns of energy submitted, dollars submitted, energy cleared and dollars cleared as well as the totals. Posts after the completion of the DAM Market publication. | ENE_CB_MKT_SUM | DMD_SLF_ENE_SUB_MW DMD_SLF_ENE_CLR_MW DMD_SLF_CLR_CST | Sum of demand self schedule energy bids submitted for all internal resources for a specific trade date in the day ahead market Sum of demand self schedule energy bids awarded (cleared) for all internal resources for a specific trade date in the day ahead market |



| Report/ResultSet | XML Name | XML Data Items | Description |
|------------------|----------|--------------------|--|
| | | DMD_ENE_SUB_MW | Sum of dollars associated with demand self schedule energy bids awarded (cleared) for all internal resources for a specific trade date in the day ahead market |
| | | DMD_ENE_SUB_CST | Sum of demand economic energy bids submitted for all internal resources for a specific trade date in the day ahead market. All the MW values in each price curve will be included in this calculation |
| | | DMD_ENE_CLR_MW | Sum of dollars associated with demand economic energy submitted for all internal resources for a specific trade date in the day ahead market. All the MW/price pair values in each price curve will be included in this calculation |
| | | DMD_ENE_CLR_CST | Sum of demand economic energy bids awarded (cleared) for all internal resources for a specific trade date in the day ahead market |
| | | DMD_VIR_ENE_SUB_MW | Sum of dollars associated with demand economic energy bids awarded (cleared) for all internal resources for a specific trade date in the day ahead market |
| | | DMD_VIR_SUB_CST | Sum of demand convergence bidding (virtual) energy bids submitted for all internal resources for a specific trade date in the day ahead market. All the MW values in each price curve will be included in this calculation |
| | | DMD_VIR_ENE_CLR_MW | Sum of dollars associated with demand convergence bidding (virtual) energy submitted for all internal resources for a specific trade date in the day ahead market. All the MW/price pair values in each price curve will be included in this calculation |
| | | DMD_VIR_CLR_CST | Sum of demand convergence bidding (virtual) energy bids awarded (cleared) for all internal resources for a specific trade date in the day ahead market |



| Report/ResultSet | XML Name | XML Data Items | Description |
|------------------|----------|--------------------|---|
| | | DMD_TOT_ENE_SUB_MW | Sum of dollars associated with demand convergence bidding (virtual) energy bids awarded (cleared) for all internal resources for a specific trade date in the day ahead market |
| | | DMD_TOT_SUB_CST | Sum of demand self schedule energy bids submitted, demand economic energy bids submitted, demand virtual bids submitted for all internal resources (and nodes) for a specific trade date in the day ahead market |
| | | DMD_TOT_ENE_CLR_MW | Sum of dollars associated with demand self schedule energy bids submitted, demand economic energy bids submitted, demand virtual bids submitted for all internal resources (and nodes) for a specific trade date in the day ahead market |
| | | DMD_TOT_CLR_CST | Sum of demand self schedule energy bids awarded (cleared) , demand economic energy bids awarded (cleared), demand virtual bids awarded (cleared) for all internal resources (and nodes) for a specific trade date in the day ahead market |
| | | SPLY_ENE_SUB_MW | Sum of dollars associated with demand self schedule energy bids awarded (cleared) , demand economic energy bids awarded (cleared), demand virtual bids awarded (cleared) for all internal resources (and nodes) for a specific trade date in the day ahead market |
| | | SPLY_ENE_SUB_CST | Sum of supply physical energy bids submitted for all internal resources for a specific trade date in the day ahead market. All the MW values in each price curve will be included in this calculation. |
| | | SPLY_ENE_CLR_MW | Sum of dollars associated with supply physical energy submitted for all internal resources for a specific trade date in the day ahead market. All the MW/price pair values in each price curve will be included in this calculation. |



| Report/ResultSet | XML Name | XML Data Items | Description |
|------------------|----------|---------------------|---|
| | | SPLY_ENE_CLR_CST | Sum of supply physical energy bids awarded (cleared) for all internal resources for a specific trade date in the day ahead market |
| | | SPLY_SLF_ENE_SUB_MW | Sum of dollars associated with supply physical energy bids awarded (cleared) for all internal resources for a specific trade date in the day ahead market |
| | | SPLY_SLF_ENE_CLR_MW | Sum of supply self schedule energy bids submitted for all internal resources for a specific trade date in the day ahead market |
| | | SPLY_SLF_CLR_CST | Sum of supply self schedule energy bids awarded (cleared) for all internal resources for a specific trade date in the day ahead market |
| | | SPLY_VIR_ENE_SUB_MW | Sum of dollars associated with supply self schedule energy bids awarded (cleared) for all internal resources for a specific trade date in the day ahead market |
| | | SPLY_VIR_SUB_CST | Sum of supply convergence bidding (virtual) energy bids submitted for all internal resources for a specific trade date in the day ahead market. All the MW values in each price curve will be included in this calculation. |
| | | SPLY_VIR_ENE_CLR_MW | Sum of dollars associated with supply convergence bidding (virtual) energy submitted for all internal resources for a specific trade date in the day ahead market. All the MW/price pair values in each price curve will be included in this calculation. |
| | | SPLY_VIR_CLR_CST | Sum of supply convergence bidding (virtual) energy bids awarded (cleared) for all internal resources for a specific trade date in the day ahead market |
| | | SPLY_TOT_ENE_SUB_MW | |



| Report/ResultSet | XML Name | XML Data Items | Description |
|------------------|----------|---------------------|--|
| | | SPLY_TOT_SUB_CST | Sum of dollars associated with supply convergence bidding (virtual) energy bids awarded (cleared) for all internal resources for a specific trade date in the day ahead market |
| | | SPLY_TOT_ENE_CLR_MW | Sum of supply economic energy bids submitted, supply virtual bids submitted for all internal resources (and nodes) for a specific trade date in the day ahead market. |
| | | SPLY_TOT_CLR_CST | Sum of dollars associated with supply economic energy bids submitted, supply virtual bids submitted for all internal resources (and nodes) for a specific trade date in the day ahead market |
| | | EXP_SLF_ENE_SUB_MW | Sum of supply economic energy bids awarded (cleared), supply virtual bids awarded (cleared) for all internal resources (and nodes) for a specific trade date in the day ahead market |
| | | EXP_SLF_ENE_CLR_MW | Sum of Exports self schedule energy bids submitted for a specific trade date in the day ahead market N/A |
| | | EXP_SLF_CLR_CST | Sum of Exports self schedule energy bids awarded (cleared) for a specific trade date in the day ahead market |
| | | EXP_ENE_SUB_MW | Sum of dollars associated with Exports self schedule energy bids awarded (cleared) for a specific trade date in the day ahead market |
| | | EXP_ENE_SUB_CST | Sum of Exports economic energy bids submitted for a specific trade date in the day ahead market. All the MW values in each price curve will be included in this calculation |



| Report/ResultSet | XML Name | XML Data Items | Description |
|------------------|----------|--------------------|--|
| | | EXP_ENE_CLR_MW | Sum of dollars associated with Exports economic energy submitted for a specific trade date in the day ahead market. All the MW/price pair values in each price curve will be included in this calculation |
| | | EXP_ENE_CLR_CST | Sum of Exports economic energy bids awarded (cleared) for a specific trade date in the day ahead market |
| | | EXP_VIR_ENE_SUB_MW | Sum of dollars associated with Exports economic energy bids awarded (cleared) for a specific trade date in the day ahead market |
| | | EXP_VIR_SUB_CST | Sum of Exports convergence bidding (virtual) energy bids submitted for a specific trade date in the day ahead market. All the MW values in each price curve will be included in this calculation |
| | | EXP_VIR_ENE_CLR_MW | Sum of dollars associated with Exports convergence bidding (virtual) energy submitted for a specific trade date in the day ahead market. All the MW/price pair values in each price curve will be included in this calculation |
| | | EXP_VIR_CLR_CST | Sum of Exports convergence bidding (virtual) energy bids awarded (cleared) for a specific trade date in the day ahead market |
| | | EXP_TOT_ENE_SUB_MW | Sum of dollars associated with Exports convergence bidding (virtual) energy bids awarded (cleared) for a specific trade date in the day ahead market |
| | | EXP_TOT_SUB_CST | Sum of Exports self schedule energy bids submitted, Exports economic energy bids submitted, Exports virtual bids submitted (and nodes) for a specific trade date in the day ahead market |
| | | EXP_TOT_ENE_CLR_MW | Sum of dollars associated with Exports self schedule energy bids submitted, Exports economic energy bids submitted, Exports virtual bids submitted (and nodes) for a specific trade date in the day ahead market |



| Report/ResultSet | XML Name | XML Data Items | Description |
|------------------|----------|--------------------|---|
| | | EXP_TOT_CLR_CST | Sum of Exports self schedule energy bids awarded (cleared) , Exports economic energy bids awarded (cleared), Exports virtual bids awarded (cleared) (and nodes) for a specific trade date in the day ahead market |
| | | IMP_SLF_ENE_SUB_MW | Sum of dollars associated with Exports self schedule energy bids awarded (cleared) , Exports economic energy bids awarded (cleared), Exports virtual bids awarded (cleared) (and nodes) for a specific trade date in the day ahead market |
| | | IMP_SLF_ENE_CLR_MW | Sum of dollars associated with Exports self schedule energy bids awarded (cleared) , Exports economic energy bids awarded (cleared), Exports virtual bids awarded (cleared) (and nodes) for a specific trade date in the day ahead market |
| | | IMP_SLF_CLR_CST | Sum of Imports self schedule energy bids submitted for a specific trade date in the day ahead market |
| | | IMP_ENE_SUB_MW | Sum of Imports self schedule energy bids awarded (cleared) for a specific trade date in the day ahead market |
| | | IMP_ENE_SUB_CST | Sum of dollars associated with Imports self schedule energy bids submitted for a specific trade date in the day ahead market. All the MW values in each price curve |
| | | IMP_ENE_CLR_MW | Sum of Imports physical energy bids submitted for a specific trade date in the day ahead market. All the MW values in each price curve will be included in this calculation. |
| | | IMP_ENE_CLR_CST | Sum of dollars associated with Imports physical energy bids submitted for a specific trade date in the day ahead market. All the MW values in each price curve will be included in this calculation. |
| | | IMP_VIR_ENE_SUB_MW | Sum of Imports physical energy bids awarded (cleared) for a specific trade date in the day ahead market. All the MW/price pair values in each price curve will be included in this calculation. |
| | | IMP_VIR_SUB_CST | Sum of Imports physical energy bids awarded (cleared) for a specific trade date in the day ahead market |



| Report/ResultSet | XML Name | XML Data Items | Description |
|-------------------------------------|-----------------|--------------------|---|
| | | IMP_VIR_ENE_CLR_MW | Sum of dollars associated with Imports physical energy bids awarded (cleared) for a specific trade date in the day ahead market |
| | | IMP_VIR_CLR_CST | Sum of Imports convergence bidding (virtual) energy bids submitted for a specific trade date in the day ahead market. All the MW values in each price curve will be included in this calculation. |
| | | IMP_TOT_ENE_SUB_MW | Sum of dollars associated with Imports convergence bidding (virtual) energy submitted for a specific trade date in the day ahead market. All the MW/price pair values in each price curve will be included in this calculation. |
| | | IMP_TOT_SUB_CST | Sum of Imports convergence bidding (virtual) energy bids awarded (cleared) for a specific trade date in the day ahead market |
| | | IMP_TOT_ENE_CLR_MW | Sum of dollars associated with Imports convergence bidding (virtual) energy bids awarded (cleared) for a specific trade date in the day ahead market |
| | | IMP_TOT_CLR_CST | Sum of Imports economic energy bids submitted, Imports virtual bids submitted (and nodes) for a specific trade date in the day ahead market |
| | | | Sum of dollars associated with Imports economic energy bids submitted, Imports virtual bids submitted (and nodes) for a specific trade date in the day ahead market |
| | | | Sum of Imports economic energy bids awarded (cleared), Imports virtual bids awarded (cleared) (and nodes) for a specific trade date in the day ahead market |
| | | | Sum of dollars associated with Imports economic energy bids awarded (cleared), Imports virtual bids awarded (cleared) (and nodes) for a specific trade date in the day ahead market |
| Convergence Bidding Nodal MW Limits | CB_NODAL_LIMITS | CB_NODAL_LIMITS | Upper or lower limit (MW) |



| Report/ResultSet | XML Name | XML Data Items | Description |
|--|-------------------------|--|--|
| This report displays the MW limits used by the ISO in formulating nodal MW constraints in conjunction with convergence bidding. An upper and lower limit is defined for each Eligible Pnode other than an Eligible Pnode established for an Intertie. This report is triggered with the publication of the Day-Ahead results. | | PHYSICAL_TYPE | 'Supply' or 'Demand' |
| Contingency Dispatch Resource Schedules Similar to the System Load and Resource Schedules report, but for Real Time Contingency Dispatch (RTCD) runs. RTM Generation, Import and Export per TAC Area and CAISO total, in MW for all 10-minute RTCD runs. | ENE_CD_SLRS | ISO_TOT_GEN_MW ISO_TOT_IMP_MW ISO_TOT_EXP_MW TOT_GEN_MW TOT_IMP_MW TOT_EXP_MW | ISO Total MW cleared as Generation for all 10-Minute Contingency Dispatch run. ISO Total MW cleared as imports for all 10-Minute Contingency Dispatch run. ISO Total MW cleared Exports for all 10-Minute Contingency Dispatch run. Total MW cleared as Generation per TAC area for all 10-Minute Contingency Dispatch run. Total MW cleared as imports per TAC area for all 10-Minute Contingency Dispatch run. Total MW cleared as Exports per TAC area for all 10-Minute Contingency Dispatch run. |
| Aggregated Generation Outages Generator de-rates and outages which are considered in the Day-Ahead Market. Report is generated from the list of de-rates and outages that are known at the time of publication, typically 5:00 AM PPT the day prior to the operating day. Aggregated into a total MW capacity reduction amount by trading hub (NP15, ZP26, and SP15) and resource type (thermal, hydro, renewable). | AGGR_OUTAGE_SCH | REPORT_DATE OUTAGE_DATE OUTAGE_HOUR FUEL_CATEGORY TRADING_HUB OUTAGE_MW | The date when the data was published Outage date Outage hour Fuel Category Trading Hub name Outage MW |
| EIM Transfer Limits | ENE_EIM_TRANSFER_LIMITS | MKT_TYPE INTERVAL_START_GMT INTERVAL_END_GMT | RTPD and RTD Interval Start time (GMT) Interval End time (GMT) |



| Report/ResultSet | XML Name | XML Data Items | Description |
|---|------------------------|---|---|
| After each RTPD and RTD market run is completed, OASIS will post the NSI low/high limits per each EIM BAA group that are used in the market | | BAA_GRP_ID LIMIT_TYPE EIM_XFER_MW | EIM BAA Group ID HIGH or LOW EIM Transfer MW |
| EIM Transfer EIM BAA Net Imbalance energy export (transfer) will be posted to OASIS for every RTD and RTPD market | ENE_EIM_TRANSF ER | INTERVAL_START_GMT INTERVAL_END_GMT MKT_TYPE BAA_GRP_ID EIM_XFER_MW | Interval Start time (GMT) Interval End time (GMT) RTPD and RTD EIM BAA Group (PACW, PACE, ISO, PACW_PACE, etc.) EIM Transfer MW |
| EIM BAA Dynamic NSI Dynamic Net Schedule Interchange for each BAA will be posted to OASIS for every RTD and RTPD market | ENE_EIM_DYN_NSI | INTERVAL_START_GMT INTERVAL_END_GMT BAA_ID MKT_TYPE EIM_DYN_NSI_MW | Interval Start time (GMT) Interval End time (GMT) One of more EIM BAA ID RTPD and RTD EIM BAA Dynamic NSI MW |
| EIM BAA Base NSI DAM and RTM base NSI for each EIM BAA. All data shall be from the latest DAM and the first RTPD 15-minute market within the hour. | ENE_BASE_NSI | INTERVAL_START_GMT INTERVAL_END_GMT SNAPSHOT_INDICATOR BAA_ID MKT_TYPE BASE_NSI_MW | Interval Start time (GMT) Interval End time (GMT) Base schedule snapshot indicator (T75MIN, T55MIN, T40MIN, DA) One of more EIM BAA ID DAM and RTPD EIM Base NSI MW |
| EIM BAA Hourly Base NSI DAM and RTM hourly base NSI for each EIM BAA. | ENE_HRLY_BASE_ NSI | INTERVAL_START_GMT INTERVAL_END_GMT SNAPSHOT_INDICATOR BAA_ID MKT_TYPE HRLY_BASE_NSI_MW | Interval Start time (GMT) Interval End time (GMT) Base schedule snapshot indicator (T75MIN, T55MIN, T40MIN, DA) One of more EIM BAA ID DAM and RTM EIM Hourly Base NSI MW |
| EIM BAA Hourly Base Loss DAM and RTM hourly base loss for each EIM BAA. | ENE_HRLY_BASE_ LOSS | INTERVAL_START_GMT INTERVAL_END_GMT SNAPSHOT_INDICATOR BAA_ID MKT_TYPE HRLY_BASE_LOSS_MW | Interval Start time (GMT) Interval End time (GMT) Base schedule snapshot indicator (T75MIN, T55MIN, T40MIN, DA) One of more EIM BAA ID DAM and RTM EIM Hourly Base Loss MW |
| Uncertainty Movement by Category | ENE_UNCERTAINT Y_MV | BAA_GRP_ID MKT_TYPE INTERVAL_START_GMT INTERVAL_END_GMT CATEGORY PRODUCT | BAA Group ID Market type. Only applicable for RTD market Interval Start time (GMT) Interval End time (GMT) Supply or Intertie or Load UM – Uncertainty Movement |



| Report/ResultSet | XML Name | XML Data Items | Description |
|-----------------------------|---------------------------|---------------------------------|---|
| Flexible Ramp Requirements | ENE_FLEX_RAMP_REQT | UNCERTAINTY_MV_MW | MW value |
| | | BAA_GRP_ID | BAA ID |
| | | MKT_TYPE | Market type. Before Fall 2016 release, only RTPD market applies. Beginning Fall 2016 release market type will be RTPD, RTD. |
| | | INTERVAL_START_GMT | Interval Start time (GMT) |
| | | INTERVAL_END_GMT | Interval End time (GMT) |
| | | RAMP_TYPE | Ramp Type (UP or DOWN) |
| | | FLEX_RAMP_REQ_MW | MW value |
| Flex Ramp Aggregated Awards | ENE_AGGR_FLEX_RAMP | BAA_GRP_ID | BAA Group ID |
| | | MKT_TYPE | Market type. Applicable for both RTPD and RTD markets. |
| | | INTERVAL_START_GMT | Interval Start time (GMT) |
| | | INTERVAL_END_GMT | Interval End time (GMT) |
| | | RAMP_TYPE | Ramp Type (UP or DOWN) |
| | | AGGR_FLEX_RAMP_MW | MW value |
| | | Flex Ramp Surplus Demand Curves | ENE_FLEX_RAMP_DC |
| RAMP_TYPE | Ramp Type (UP or DOWN) | | |
| INTERVAL_START_GMT | Interval Start time (GMT) | | |
| INTERVAL_END_GMT | Interval End time (GMT) | | |
| SEGMENT_MW | MW value | | |
| SEGMENT_PRC | Price | | |
| EIM Transfer By Tie | ENE_EIM_TRANSFER_TIE | EIM_XFER_MW | Energy Imbalance Market (EIM) MW Transfer over the tie from one EIM BAA entity to the other EIM BAA entity. |
| | | BAA_GRP_ID | Balancing Authority Area Group Identifier |
| | | INTERVAL_START_GMT | Interval Start time (GMT) |
| | | INTERVAL_END_GMT | Interval End time (GMT) |
| | | TIE_NAME | Tie in which the transfer occurs |
| | | DIRECTION | Import or Export |



| Report/ResultSet | XML Name | XML Data Items | Description |
|----------------------------------|-----------------------------|-----------------------|---|
| | | FROM_BAA | EIM Transfer from the originating EIM BAA entity |
| | | TO_BAA | EIM Transfer to the destination EIM BAA entity |
| EIM Transfer Limits By Tie | ENE_EIM_TRANSFER_LIMITS_TIE | DATA_ITEM | EIM_XFER_LIMITS_TIE_MW |
| | | VALUE | Energy Imbalance Market (EIM) MW Transfer Limit over the tie from one EIM BAA entity to the other EIM BAA entity. |
| | | OPR_DATE | Opr Date |
| | | INTERVAL_NUM | Interval Number |
| | | BAA_GRP_ID | Balancing Authority Area Group Identifier |
| | | INTERVAL_START_GMT | Interval Start time (GMT) |
| | | INTERVAL_END_GMT | Interval End time (GMT) |
| | | TIE_NAME | Tie in which the transfer occurs |
| | | DIRECTION | Import or Export |
| | | FROM_BAA | EIM Transfer from the originating EIM BAA entity |
| | | TO_BAA | EIM Transfer to the destination EIM BAA entity |
| Wind And Solar Summary | ENE_WIND_SOLAR_SUMMARY | OPR_DATE | Ope Date |
| | | DATA_ITEM | Summary Data Item((DAM_SCHEDULE,DAM_NET_VIRTUAL,DAM_FORECAST,RTM_SCHEDULE) |
| | | INTERVAL_START_GMT | Interval Start Time in GMT |
| | | INTERVAL_END_GMT | Interval End Time in GMT |
| | | VALUE | MW Value |
| Flexible Ramp Requirements Input | ENE_EIM_FLEX_RAMP_INPUT | INTERVAL_START_GMT | Interval Start time (GMT) |
| | | INTERVAL_END_GMT | Interval End time (GMT) |
| | | SNAPSHOT_INDICATOR | Base schedule snapshot indicator (T75MIN, T55MIN, T40MIN) |
| | | BAA_ID | One or more EIM BAA ID |
| | | MKT_TYPE | RTM |
| | | DIVERSITY_BENEFIT_UC | Diversity benefit scaled uncertainty component. |
| | | NET_EXPORT_CAPABILITY | |



| Report/ResultSet | XML Name | XML Data Items | Description |
|---|----------|-----------------------|---|
| | | NET_IMPORT_CAPABILITY | Net Export Capability |
| | | CREDIT | Net Import Capability |
| | | TEST_INDICATOR | Credit |
| | | FLEX_RAMP_REQ_MW | There will be four flexible ramp capacity requirement sufficiency tests: 1. ramp time duration is the first 15-minute interval; 2. ramp time duration is 30-minutes spanning two 15-minute intervals; 3. ramp time duration is 45-minutes spanning three 15-minute intervals; 4. ramp time duration is 60 minutes spanning the four 15-minute intervals |
| | | RAMP_TYPE | Requirement MW Ramp Type (UP or DOWN) |
| ANCILLARY | | | |
| AS Requirements Ancillary Service Capacity Minimum and Maximums per AS Region. Report will post for the 2-Day-Ahead forecast, DAM , HASP and RTM (RTPD) Note: When encountering a max A/S limit of zero, please interpret this as "no limit". | AS_REQ | NS_REQ_MAX_MW | Max capacity to be acquired for NonSpin |
| | | RD_REQ_MAX_MW | Max capacity to be acquired for RegulationDown |
| | | RU_REQ_MAX_MW | Max capacity to be acquired for RegulationUp |
| | | SP_REQ_MAX_MW | Max capacity to be acquired for Spin |
| | | NS_REQ_MIN_MW | Min capacity to be acquired for NonSpin |
| | | RD_REQ_MIN_MW | Min capacity to be acquired for RegulationDown |
| | | RU_REQ_MIN_MW | Min capacity to be acquired for RegulationUp |
| | | SP_REQ_MIN_MW | Min capacity to be acquired for Spin |
| | | AS_REQ_MAX_MW | Max capacity UP to be acquired for RegulationUp, Spin, Non Spin For 2DA Market. |
| | | RMD_REQ_MAX_MW | Max capacity to be acquired for Regulation Mileage Down |
| | | RMD_REQ_MIN_MW | Min capacity to be acquired for Regulation Mileage Down |
| | | RMU_REQ_MAX_MW | Max capacity to be acquired for Regulation Mileage Up |



| Report/ResultSet | XML Name | XML Data Items | Description |
|---|---|----------------|--|
| | | RMU_REQ_MIN_MW | Min capacity to be acquired for Regulation Mileage Down |
| <p>AS Results</p> <p>Ancillary Service Capacity procured and self-scheduled, by AS type, posted for each AS Region. Also posts the sum of the procured and self-scheduled.</p> <p>Posts Hourly for the Day-Ahead (DAM), HASP. And in 15 Minute (RTPD) intervals, by AS type. Also posts Total AS Cost for each AS Region, by AS Type.</p> <p>Results will only post for AS Regions that are binding for that market run.</p> | AS_RESULTS | RU_TOT_CST_PRC | The Total line cost across AS Region for Regulation Up. |
| | | RD_TOT_CST_PRC | The Total line cost across AS Region for Regulation Down. |
| | | SP_TOT_CST_PRC | The Total line cost across AS Region for Spin. |
| | | NS_TOT_CST_PRC | The Total line cost across AS Region for NonSpin. |
| | | NS_PROC_MW | The MW of capacity procured from the AS market bids for NonSpin. The MW of capacity self-provided by market participants. Total MW of capacity obtained. |
| | | NS_SPROC_MW | The MW of capacity procured from the AS market bids for Spin. |
| | | NS_TOT_MW | The MW of capacity self-provided by market participants Total MW of capacity obtained |
| | | SP_PROC_MW | The MW of capacity procured from the AS market bids for RegulationUp. The MW of capacity self-provided by market participants. Total MW of capacity obtained. |
| | | SP_SPROC_MW | The MW of capacity procured from the AS market bids for RegulationDown. The MW of capacity self-provided by market participants. Total MW of capacity obtained |
| | | SP_TOT_MW | The MW of capacity procured from the AS market bids for Regulation Mileage Down |
| | | RU_PROC_MW | The MW of capacity procured from the AS market bids for RegulationUp. The MW of capacity self-provided by market participants. Total MW of capacity obtained. |
| | | RU_SPROC_MW | The MW of capacity procured from the AS market bids for RegulationDown. The MW of capacity self-provided by market participants. Total MW of capacity obtained |
| | | RU_TOT_MW | The MW of capacity procured from the AS market bids for Regulation Mileage Down |
| | | RD_PROC_MW | The MW of capacity procured from the AS market bids for Regulation Mileage Down |
| | | RD_SPROC_MW | The MW of capacity procured from the AS market bids for Regulation Mileage Down |
| | | RD_TOT_MW | The MW of capacity procured from the AS market bids for Regulation Mileage Down |
| | | RMD_PROC_MW | The MW of capacity procured from the AS market bids for Regulation Mileage Down |
| RMD_SPROC_MW | The MW of capacity procured from the AS market bids for Regulation Mileage Down | | |



| Report/ResultSet | XML Name | XML Data Items | Description |
|---|-----------------|----------------------|---|
| | | RMD_TOT_CST_PRC | The MW of capacity self-provided by market participants for Regulation Mileage Down The Total line cost across AS Region for Regulation Mileage Down |
| | | RMD_TOT_MW | Total MW of capacity obtained for Regulation Mileage Up |
| | | RMU_PROC_MW | The MW of capacity procured from the AS market bids for Regulation Mileage Up |
| | | RMU_SPROC_MW | The MW of capacity self-provided by market participants for Regulation Mileage Up |
| | | RMU_TOT_CST_PRC | The Total line cost across AS Region for Regulation Mileage Up |
| | | RMU_TOT_MW | Total MW of capacity obtained for Regulation Mileage Up |
| Actual Operating Reserves Total Actual Load, AS, and Operating Reserves maintained during delivery. | AS_OP_RSRV | OP_RSRV_ACT_PCT | Total Actual Operating Reserves maintained during delivery. |
| Mileage Calculation Components Lists system performance accuracy, average Instructed Mileage (MW), and system Mileage multiplier data from the prior seven days for each hour of a trading day. | AS_MILEAGE_CALC | RMD_AVG_MIL | Average Instructed Mileage for regulation mileage down |
| | | RMD_SYS_MIL_MUL | System Mileage Multiplier for regulation mileage down |
| | | RMD_SYS_PERF_ACC | System Performance Accuracy for regulation mileage up |
| | | RMU_AVG_MIL | Average Instructed Mileage for regulation mileage up |
| | | RMU_SYS_MIL_MUL | System Mileage Multiplier for regulation mileage up |
| | | RMU_SYS_PERF_ACC | System Performance Accuracy for regulation mileage up. |
| CRR | | | |
| CRR Clearing Prices | CRR_CLEARING | ON_PRC LT_OFF_PRC | On-peak Price Off-peak Price |



| Report/ResultSet | XML Name | XML Data Items | Description |
|--|---------------|--|---|
| Congestion Revenue Rights Auction Clearing Prices by Pnode for CRR segments. | | <p>Note : These the XML tags for corresponding data items</p> <p>CRR_MARKET_NAME RESOURCE_NAME START_DATE_TIME END_DATE_TIME REASON</p> | <p>CRR MARKET NAME APNODE ID START DATE End DATE MARKET TERM</p> |
| CRR Inventory Congestion Revenue Rights Daily Inventory. | CRR_INVENTORY | <p>ON_MW OFF_MW</p> <p>Note : These are the XML tags for corresponding data items</p> <p>CRR_MARKET_NAME SOURCE SINK RESOURCE_NAME OPTION INVENTORY_DATE_TIME START_DATE_TIME END_DATE_TIME REASON STATUS_TYPE CRR_CATEGORY CRR_NSR CRR_SEGMENT</p> | <p>On-peak capacity Off-peak capacity</p> <p>CRR MARKET NAME Source APNODE Sink APNODE OWNER NAME CRR OPTION INVENTORY DATE START DATE END DATE MARKET TERM CRR Type CRR CATEGORY NSR INDEX SEGMENT ID</p> |
| PUBLIC BIDS | | | |
| Public Bids Clean Bid payloads used as the input in the markets, with certain fields replaced by pseudo data as indicated. Posted for DAM and RTM. Posted at T+90. The Public Bid Data is downloadable to XML and CSV only, for a single day at a time. Data is available for downloading at midnight on the 90 th day after the trading day. The Publications and Revisions log will not create records for the Public Bid data when it is becomes available for downloading on T+90. | PUB_BID | <p>Note: Below structure is common for –GENERATION, LOAD, and INTERTIE.</p> <p>STARTTIME STOPTIME REGISTEREDGENERATOR SCHEDULINGCOORDINATOR PRODUCTBID DESCRIPTION MRID MARKETPRODUCT DESCRIPTION MARKETPRODUCTTYPE BIDSELFSCHE TIMEINTERVALSTART TIMEINTERVALEND SELFSCHEMW BIDSCHEDULE TIMEINTERVALSTART TIMEINTERVALEND BIDPRICECURVE MRID CURVESCHEDDATA</p> | <p>Start time of bid End time of bid Pseudo ID of Resource Pseudo ID of SC_ID Description of product All the possible types like EN, LFD, LFU, NR, RC,RD,RU,SR,RMD, RMU and GHG Selfscheduled bid start and end time with the MW. Bid Schedule with start and end time Curve details contains X and Y1 & Y2 axis data. Xaxis= optional element</p> |



| Report/ResultSet | XML Name | XML Data Items | Description |
|---|-------------------|---|---|
| | | XAXISDATA Y1AXISDATA Y2AXISDATA | Y1 axis = optional element Y2 axis = Opportunity Cost; optional element |
| <p>CB Public Bids</p> <p>Convergence Bidding Clean Bid payloads used as the input in the markets, with certain fields replaced by pseudo data as indicated. Posted for DAM. Posted at T+90. The Public Bid Data is downloadable to XML and CSV only, for a single day at a time.</p> <p>Data is available for downloading at midnight on the 90th day after the trading day.</p> | PUB_CB_BID | STARTTIME STOPTIME AggregatedPnode IndividualPnode VirtualBidType SCHEDULINGCOORDINATOR ENERGYPRODUCTBID BIDSCHEDULE TIMEINTERVALSTART TIMEINTERVALEND BIDPRICECURVE CURVESCHEDDATA XAXISDATA Y1AXISDATA | Start time of Virtual bid End time of Virtual bid Pseudo ID of Apnode Pseudo ID of Pnode Supply/Demand Bid Pseudo ID of SC_ID Bid Schedule with start and end time Curve details contains X and Y axis data. |
| <p>Congestion Revenue Rights (CRR) Public Bids</p> <p>Bids submitted and used in the CRR auction markets, with certain fields replaced by pseudo data as indicated. Posted for the monthly auctions 90 days after the close of markets and seasonal auctions after each relevant quarter has passed. The Public Bid Data is downloadable to XML and CSV only, for a single market at a time.</p> | PUB_CRR_BID | STARTTIME STOPTIME MARKETTERM MARKETNAME SOURCEID SINKID TIMEOFUSE MWQUANTITY CRR_PRICE CRRBID_ID CRRBIDSEG_ID AUCTIONCLOSEDATE | Effective Start Date of the CRR Effective End Date of the CRR CRR auction type . Valid values are Seasonal or Monthly CRR auction name Source id Sink id Time of use of the CRR bid The MW Quantity of the bid point The Price of the bid point CRR Bid identifier The point number in the CRR Bid CRR auction Close date. |
| <p>Competitive Solicitation Process Offer Set</p> | PUB_CSP_OFFER_SET | OFFERPERIODSTARTTIME OFFERPERIODENDTIME | Start time of the CSP offer period (GMT). End time of the CSP offer period (GMT). |



| Report/ResultSet | XML Name | XML Data Items | Description |
|--|------------|-------------------------------------|--|
| <p>Finalized offers into the competitive solicitation process for Annual, monthly and intra-monthly offer period.</p> <p>This data will be posted on a rolling five-quarter delay.</p> | | RESOURCEADEQUACYPERIODTYPE | Resource Adequacy Period type is one of the following enumerated value ANNUAL MONTHLY INTRAMONTHLY |
| | | STARTTIME | Start time of the CSP offer (GMT). |
| | | ENDTIME | End time of the CSP offer (GMT). |
| | | SCHEDULETYPE | Schedule type is one of the following enumerated value FLEXIBLE GENERIC |
| | | REGISTEREDRESOURCE | Pseudo ID of Resource |
| | | SCHEDULINGCOORDINATOR | Pseudo ID of SC_ID |
| | | GENERATIONTYPE | Generation Technology Type is one of the following value WIND SOLAR HYDRO AGGR_OTHER |
| | | FLEXIBLECATEGORY | Flexible Category of the resource. This can be 1, 2 or 3. This value will be populated only for the scheduletype 'FLEXIBLE' 1 - Base Ramping Flexibility 2 - Peak Ramping Flexibility 3- Super Ramping Flexibility The required hours for the Peak Ramping and Super-Peak Ramping categories change on a seasonal basis. |
| | | AREA | TAC Area |
| | | BIDPRICECURVE | BidPriceCurve data contains contains X and Y axis data. |
| | XAXISDATA | The value on x-axis is MW | |
| | Y1AXISDATA | The value on y1-axis is price (\$). | |
| ATLAS | | | |



| Report/ResultSet | XML Name | XML Data Items | Description |
|----------------------------------|-------------------|---|---|
| Pnode Listing | ATL_PNODE | N/A | All Pricing Node locations in CAISO Markets. For CB, Y/N flag will be added. For CB, Maximum CB MW Limit, with effective start and end dates will be added. |
| APNode Listing | ATL_APNODE | N/A | All Aggregated Pricing Node locations used in CAISO Markets. For CB, Y/N flag will be added. For CB, Maximum CB MW Limit, with effective start and end dates will be added. |
| Load Distribution Factors (LDFs) | ATL_LDF | N/A | Typical Load Distribution Factors that map Pnodes to APNodes. |
| Load Aggregation Point Listing | ATL_LAP | N/A | All Load Aggregation Points in CAISO, by type. |
| Market Resource Listing | ATL_RESOURCE | N/A | List of CAISO Resources and their associated Pnode/APNode |
| Trading Hub Listing | ATL_HUB | N/A | All Trading Hub APNodes in CAISO. |
| Trading Hub – Pnode Mapping | ATL_PNODE_MAP | N/A | Map of all Pnodes to each Trading Hub APNode. |
| AS Region – Pnode Mapping | ATL_AS_REGION_MAP | N/A | Map of all Pnodes to each Ancillary Services Region. |
| RUC Zone – Pnode Mapping | ATL_RUC_ZONE_MAP | N/A | Map of all Pnodes to each Reliability Unit Commitment Zone. |
| TAC Area – Pnode Mapping | ATL_TAC_AREA | N/A | Map of all Pnodes to each Transmission Access Charge Area. |
| Intertie Constraint Mapping | ATL_TIEPOINT | N/A | Map of all Intertie Constraints with respective Transmission Interface and TSIN. |
| Transmission Interface Listing | ATL_TI | N/A | All Transmission Interfaces in CAISO. |
| Publications and Revisions | ATL_PUB | N/A | List of all OASIS data publication and revisions. Users can track all data additions and updates to OASIS through these entries. |
| OASIS Publication Schedule | ATL_PUB_SCHED | N/A | Expected publication schedule by which all OASIS reports are published. |
| System Operating Messages | ATL_OSM | N/A | System Operating Messages posted by Severity. Severity : Green = Normal, Red = Emergency, Blue = Urgent |
| Peak-Off-Peak Definition | ATL_PEAK_ON_OFF | N/A | Posts Hourly Peak/Off-Peak indicator based on the WECC definition. |
| Convergence Bidding Node List | ATL_CBNODE | N/A | List all the nodes and/or ties for convergence bidding |
| Price Correction Messages | ATL_PRC_CORR_MSG | MSG_TIME OASIS_MARKET_RUN_ID MSG_TEXT | Date And Time of the Message Actual Text of the correction |
| Scheduling Point Definition | ATL_SP | BAA_ID | Balancing Area Authority Id |



| Report/ResultSet | XML Name | XML Data Items | Description |
|--|------------------|--|--|
| | | SCHEDULING_POINT ALLOW_BID TI_DIRECTION START_DATE END_DATE | Schedule Point Name Flag to denote if the Bid is allowed Bid Direction (Import, export,Both) Effective Start Date of the Scheduling Point Effective End Date of the Scheduling Point |
| BAA And Tie Definition | ATL_BAA_TIE | TIE_NAME FROM_BAA TO_BAA EIM_TRANSFER_FLAG START_DATE END_DATE | Name of the Tie From BAA id To Baa Id Transfer Flag(Y or N) Effective Start Date of the Tie Effective End Date of the Tie |
| Scheduling Point and Tie Definition | ATL_SP_TIE | TIE_NAME SCHEDULING_POINT START_DATE END_DATE | Name of the Tie Scheduling Point Name Effective Start Date Effective End Date |
| Intertie Constraint and Scheduling Point Mapping | ATL_ITC_SP | TIEPOINT_NAME SCHEDULING_POINT START_DATE END_DATE | Name of the Constraint Group Name of the Schedule Point Effective Start Date of the Constraint and Schedule Point Mapping Effective End Date |
| Intertie Scheduling Limit and Tie Mapping | ATL_ISL_TIE | TIE_NAME ITIE_SCHEDULING_LIMIT START_DATE END_DATE | Name of the Tie Name of the Itie Schedule Limit Effective Start Date of the Schedule Limit and Tie Mapping Effective End Date of the Schedule Limit and Tie Mapping |
| Master Control Area Generating Capability List. This service can be used to get the CAISO Control Area generating resource information. This service will include only active generating resource information. | ATL_GEN_CAP_LIST | RESOURCE_ID GEN_UNIT_NAME PARENT_RESOURCE_ID BAA_ID CLASSIFICATION | ID of the resource that is certified in CAISO master file system. Name of the generating unit Parent resource id of the aggregated child resource Balancing Area Authority ID |



| Report/ResultSet | XML Name | XML Data Items | Description |
|------------------|----------|-------------------------|---|
| | | RESOURCE_AGG_TYPE | Unit classification. Valid values are Participating or Nonparticipating |
| | | QF | Y/N Identifier if a resource is Aggregate or Nonaggregate resource |
| | | NET_DEPENDABLE_CAPACITY | Y/N Identifier if a resource is a qualifying cogeneration facility or small qualifying power production facility. |
| | | PTO_AREA | Net Dependable Capacity (MW) |
| | | OWNER_OR_QF | Name of the PTO Area |
| | | UNIT_TYPE | Owner or QF ID |
| | | ENERGY_SOURCE | Type of unit |
| | | ZONE | Source of Energy |
| | | COD | Zone Name |
| | | UDC | NP15, SP15 and ZP26 The date when the capacity becomes commercial |
| | | RIVER_SYSTEM | Utility Distribution Company |
| | | NAMEPLATE_CAPACITY | River System |
| | | RESOURCE_TYPE | The actual nameplate capacity rating on the resource, (Gross output that cannot exceed the interconnection agreement) Exact MW |
| | | | Resource Type |

6. Single Report URL Query Strings

This section contains examples of all single report URL Examples for XML downloads.

| XML Name | Example URL for XML Download |
|----------|------------------------------|
| PRICES | |



| | |
|---------------|--|
| PRC_LMP | <p>http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_LMP&startdatetime=20130919T07:00-0000&enddate=20130920T07:00-0000&version=1&market_run_id=DAM&grp_type=ALL_APNODES</p> <p>OR</p> <p>http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_LMP&startdatetime=20130919T07:00-0000&enddate=20130920T07:00-0000&version=1&market_run_id=DAM&node=LAPLMG1_7_B2</p> <p>NOTE:</p> <ol style="list-style-type: none"> 1. Recommend to use grp_type or node only. Grp_type will give all the APNODES or ALL NODES groups and node can enable users to select individual APNODES or PNODES. 2. The “enddate” is ignored if the query is to pull “ALL” or “ALL_APNODES” nodes; ie query will return only 1-days’ worth of data for all nodes at a time based on the “startdatetime” supplied 3. The “enddate” is referenced only when a node is supplied in the query |
| PRC_INTVL_LMP | <p>http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_INTVL_LMP&startdatetime=20130919T07:00-0000&enddate=20130919T08:00-0000&version=1&market_run_id=RTM&grp_type=ALL_APNODES</p> <p>OR</p> <p>http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_INTVL_LMP&startdatetime=20130919T07:00-0000&enddate=20130919T08:00-0000&version=1&market_run_id=RTM&node=LAPLMG1_7_B2</p> <p>http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_INTVL_LMP&startdatetime=20130919T07:00-0000&enddate=20130919T08:00-0000&version=2&market_run_id=RTM&grp_type=ALL_APNODES</p> <p>OR</p> <p>http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_INTVL_LMP&startdatetime=20130919T07:00-0000&enddate=20130919T08:00-0000&version=2&market_run_id=RTM&node=LAPLMG1_7_B2</p> <p>http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_INTVL_LMP&startdatetime=20130919T07:00-0000&enddate=20130919T08:00-0000&version=3&market_run_id=RTM&grp_type=ALL_APNODES</p> <p>OR</p> <p>http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_INTVL_LMP&startdatetime=20130919T07:00-0000&enddate=20130919T08:00-0000&version=3&market_run_id=RTM&node=LAPLMG1_7_B2</p> <p>NOTE:</p> <ol style="list-style-type: none"> 1. Recommend to use grp_type or node only. Grp_type will give all the APNODES or ALL NODES groups and node can enable users to select individual APNODES or PNODES. 2. The “enddate” is ignored if the query is to pull “ALL” or “ALL_APNODES” nodes; ie query will return only 1 hours’ worth of data for all nodes at a time based on the “startdatetime” supplied 3. The “enddate” is referenced only when a node is supplied in the query 4. Market_run_id ‘RTM’ will continue to provide 5-min RTD interval LMP data 5. Only new version (version=2) introduced as part of Fall 2014 release will include new element LMP_GHG_PRC. |
| PRC_HASP_LMP | <p>http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_HASP_LMP&startdatetime=20130919T07:00-0000&enddate=20130919T08:00-0000&version=1&market_run_id=HASP&grp_type=ALL_APNODES</p> <p>OR</p> <p>http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_HASP_LMP&startdatetime=20130919T07:00-0000&enddate=20130919T08:00-0000&version=1&market_run_id=HASP&node=LAPLMG1_7_B2</p> |



| | |
|--------------|---|
| | <p>http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_HASP_LMP&startdatetime=20130919T07:00-0000&enddate=20130919T08:00-0000&version=2&market_run_id=HASP&grp_type=ALL_APNODES OR http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_HASP_LMP&startdatetime=20130919T07:00-0000&enddate=20130919T08:00-0000&version=2&market_run_id=HASP&node=LAPLMG1_7_B2</p> <p>http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_HASP_LMP&startdatetime=20130919T07:00-0000&enddate=20130919T08:00-0000&version=3&market_run_id=HASP&grp_type=ALL_APNODES OR http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_HASP_LMP&startdatetime=20130919T07:00-0000&enddate=20130919T08:00-0000&version=3&market_run_id=HASP&node=LAPLMG1_7_B2</p> <p>NOTE:</p> <ol style="list-style-type: none"> 1. Recommend to use grp_type or node only. Grp_type will give all the APNODES or ALL NODES groups and node can enable users to select individual APNODES or PNODES. 2. The "enddate" is ignored if the query is to pull "ALL" or "ALL_APNODES" nodes; ie query will return only 1 hours' worth of data for all nodes at a time based on the "startdatetime" supplied 3. The "enddate" is referenced only when a node is supplied in the query 4. Only new version (version=2) introduced as part of Fall 2014 release will include new element LMP_GHG_PRC. |
| PRC_RTPD_LMP | <p>http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_RTPD_LMP&startdatetime=20130919T07:00-0000&enddate=20130919T08:00-0000&version=1&market_run_id=RTPD&grp_type=ALL_APNODES OR http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_RTPD_LMP&startdatetime=20130919T07:00-0000&enddate=20130919T08:00-0000&version=1&market_run_id=RTPD&node=LAPLMG1_7_B2</p> <p>http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_RTPD_LMP&startdatetime=20130919T07:00-0000&enddate=20130919T08:00-0000&version=2&market_run_id=RTPD&grp_type=ALL_APNODES OR http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_RTPD_LMP&startdatetime=20130919T07:00-0000&enddate=20130919T08:00-0000&version=2&market_run_id=RTPD&node=LAPLMG1_7_B2</p> <p>http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_RTPD_LMP&startdatetime=20130919T07:00-0000&enddate=20130919T08:00-0000&version=3&market_run_id=RTPD&grp_type=ALL_APNODES OR http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_RTPD_LMP&startdatetime=20130919T07:00-0000&enddate=20130919T08:00-0000&version=3&market_run_id=RTPD&node=LAPLMG1_7_B2</p> <p>NOTE:</p> <ol style="list-style-type: none"> 1. Recommend to use grp_type or node only. Grp_type will give all the APNODES or ALL NODES groups and node can enable users to select individual APNODES or PNODES. 2. The "enddate" is ignored if the query is to pull "ALL" or "ALL_APNODES" nodes; ie query will return only 1-hour's worth of data for all nodes at a time based on the "startdatetime" supplied 3. The "enddate" is referenced only when a node is supplied in the query 4. Only new version (version=2) introduced as part of Fall 2014 release will include new element LMP_GHG_PRC. |
| PRC_AS | <p>http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_AS&market_run_id=DAM&startdatetime=20130919T07:00-0000&enddate=20130920T07:00-0000&version=1&anc_type=ALL&anc_region=ALL Note: For HASP replace, 'DAM' with 'HASP'.</p> |
| PRC_INTVL_AS | <p>http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_INTVL_AS&market_run_id=RTM&startdatetime=20130919T07:00-0000&enddate=20130919T08:00-0000&version=1&anc_type=ALL&anc_region=ALL</p> |
| PRC_CNSTR | <p>http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_CNSTR&market_run_id=DAM&ti_id=ALL&startda</p> |



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| | tetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1 |
| PRC_FUEL | http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_FUEL&fuel_region_id=ALL&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1 |
| PRC_CURR_LMP | http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_CURR_LMP&node=ALL&startdatetime=20130919T07:00-0000&enddatetime=20130919T07:00-0000&version=1 http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_CURR_LMP&node=ALL&startdatetime=20130919T07:00-0000&enddatetime=20130919T07:00-0000&version=2 |
| PRC_CURR_HUB_LMP | http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_CURR_HUB_LMP&startdatetime=20130919T07:00-0000&version=1 |
| PRC_NOMOGRAM | http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_NOMOGRAM&market_run_id=DAM&nomogram_id=ALL&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1 |
| PRC_RTM_NOMOGRAM | http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_RTM_NOMOGRAM&market_run_id=RTM&nomogram_id=ALL&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1 |
| PRC_RTM_FLOWGATE | http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_RTM_FLOWGATE&market_run_id=RTM&node=ALL&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1 |
| PRC_DS_REF | http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_DS_REF&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1&market_run_id=DAM&node_id=ALL OR http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_DS_REF&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1&market_run_id=DAM&node_id=LAPLMG1_7_B2 http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_DS_REF&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=3&market_run_id=DAM&node_id=DGAP_PGE-APND OR http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_DS_REF&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=3&market_run_id=DAM&node_id=ALL version=3 will output the TIE_NAME element NOTE: Prices are the same for the entire quarter. |
| CB_NODAL_GRP_CNSTR_PRC | http://oasis.caiso.com/oasisapi/SingleZip?queryname=CB_NODAL_GRP_CNSTR_PRC&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1 |
| PRC_FLEX_RAMP | http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_FLEX_RAMP&market_run_id=DAM&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1 OR http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_FLEX_RAMP&market_run_id=RTPD&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1&grp_type=ALL OR http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_FLEX_RAMP&market_run_id=RTD&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1&grp_type=ALL Note: This will be based on the historical view. Returns data based on the input time range. EIM release will add the baa_grp_id parameter to the above URL |



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| | http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_FLEX_RAMP&market_run_id=RTD&baa_grp_id=PACE&startdatetime=20141001T07:00-0000&enddate=20141002T07:00-0000&version=2&grp_type=ALL Valid values for baa_grp_id parameter are ISO, PACE, PACW, ISO_PACW, ISO_PACE, PACE_PACW, ISO_PACW_PACE Valid values for market_run_id are RTD and RTPD |
| PRC_FLEX_RAMP | http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_FLEX_RAMP&market_run_id=RTPD&startdatetime=20130919T07:00-0000&enddate=20130920T07:00-0000&version=1&grp_type=CURR OR http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_FLEX_RAMP&market_run_id=RTD&startdatetime=20130919T07:00-0000&enddate=20130920T07:00-0000&version=1&grp_type=CURR Note: This will be based on the current view. This gives the most current/latest interval. It ignores the input datetime range. The view outputs the latest/greatest interval. EIM release will add the baa_grp_id parameter to the above URL http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_FLEX_RAMP&market_run_id=RTD&baa_grp_id=PACE&startdatetime=20141001T07:00-0000&enddate=20141002T07:00-0000&version=2&grp_type=CURR Valid values for baa_grp_id parameter are ISO, PACE, PACW, ISO_PACW, ISO_PACE, PACE_PACW, ISO_PACW_PACE Valid values for market_run_id are RTD and RTPD |
| PRC_CD_INTVL_LMP | http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_CD_INTVL_LMP&startdatetime=20130919T07:00-0000&enddate=20130920T07:00-0000&version=1&market_run_id=RTM&grp_type=ALL_APNODES OR http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_CD_INTVL_LMP&startdatetime=20130919T07:00-0000&enddate=20130920T07:00-0000&version=1&market_run_id=RTM&node=LAPLMG1_7_B2 |
| PRC_CD_SPTIE_LMP | http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_CD_SPTIE_LMP&startdatetime=20130919T07:00-0000&enddate=20130920T07:00-0000&version=3&market_run_id=RTM&grp_type=ALL_APNODES OR http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_CD_SPTIE_LMP&startdatetime=20130919T07:00-0000&enddate=20130920T07:00-0000&version=3&market_run_id=RTM&node=LAPLMG1_7_B2 OR http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_CD_SPTIE_LMP&startdatetime=20160919T07:00-0000&enddate=20160920T07:00-0000&version=4&market_run_id=RTM&node=LAPLMG1_7_B2 |
| PRC_CD_RTM_FLOWGATE | http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_CD_RTM_FLOWGATE&market_run_id=RTM&tid=ALL&startdatetime=20130919T07:00-0000&enddate=20130920T07:00-0000&version=1 |
| PRC_CD_RTM_NOMOGRAM | http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_CD_RTM_NOMOGRAM&market_run_id=RTM&nomogram_id=ALL&startdatetime=20130919T07:00-0000&enddate=20130920T07:00-0000&version=1 |
| TRANSMISSION | |
| TRNS_CURR_USAGE | http://oasis.caiso.com/oasisapi/SingleZip?queryname=TRNS_CURR_USAGE&tid=ALL&direction=ALL&startdatetime=20130919T07:00-0000&enddate=20130920T07:00-0000&version=1 http://oasis.caiso.com/oasisapi/SingleZip?queryname=TRNS_CURR_USAGE&tid=ALL&direction=ALL&tr_type=TRNS_AS_IMPORT_IFM&startdatetime=20130919T07:00-0000&enddate=20130920T07:00-0000&version=1 List of available "tr_type": TRNS_AS_IMPORT_IFM, TRNS_ENE_IMPORT_IFM, TRNS_RATING_CBM, TRNS_RATING_CONSTRAINT, TRNS_RATING_MTC, TRNS_RATING_OTC, TRNS_RATING_TRM, TRNS_RATING_TRM_FTO, TRNS_RATING_TRM_SPI, TRNS_RATING_TRM_UF, TRNS_RATING_TTC, TRNS_TR_USAGE, RATING_ATC |



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| | Note: API will accept maximum of 10 ti_id's otherwise system will throw error 1017 (Please select a maximum of 10 nodes or use the ALL option.) |
| TRNS_ATC | http://oasis.caiso.com/oasisapi/SingleZip?queryname=TRNS_ATC&market_run_id=DAM&ti_id=ALL&ti_direction=ALL&startdatetime=20130919T07:00-0000&enddate=20130920T07:00-0000&version=1 http://oasis.caiso.com/oasisapi/SingleZip?queryname=TRNS_ATC&market_run_id=RTPD&ti_id=ALL&ti_direction=ALL&startdatetime=20130919T07:00-0000&enddate=20130920T07:00-0000&version=1 |
| TRNS_OUTAGE | http://oasis.caiso.com/oasisapi/SingleZip?queryname=TRNS_OUTAGE&ti_id=ALL&ti_direction=ALL&startdatetime=20130919T07:00-0000&enddate=20130920T07:00-0000&version=1 |
| TRNS_USAGE | http://oasis.caiso.com/oasisapi/SingleZip?queryname=TRNS_USAGE&market_run_id=DAM&ti_id=ALL&ti_direction=ALL&startdatetime=20130919T07:00-0000&enddate=20130920T07:00-0000&version=1 http://oasis.caiso.com/oasisapi/SingleZip?queryname=TRNS_USAGE&market_run_id=RTPD&ti_id=ALL&ti_direction=ALL&startdatetime=20130919T07:00-0000&enddate=20130920T07:00-0000&version=1 http://oasis.caiso.com/oasisapi/SingleZip?queryname=TRNS_USAGE&market_run_id=DAM&ti_id=ALL&ti_direction=ALL&tr_type=TRNS_AS_IMPORT_IFM&startdatetime=20130919T07:00-0000&enddate=20130920T07:00-0000&version=1 List of available "tr_type": TRNS_AS_IMPORT_IFM, TRNS_ENE_IMPORT_IFM, TRNS_RATING_CBM, TRNS_RATING_CONSTRAINT, TRNS_RATING_MTC, TRNS_RATING_OTC, TRNS_RATING_TRM, TRNS_RATING_TRM_FTO, TRNS_RATING_TRM_SPI, TRNS_RATING_TRM_UF, TRNS_RATING_TTC, TRNS_TR_USEAGE, RATING_ATC |



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| <p>PRC_MPM_LMP</p> | <p>http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_LMP&market_run_id=DA&grp_type=ALL_APNODES&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1</p> <p>OR</p> <p>http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_LMP&market_run_id=DA&node=3EMIDIO_6_N001&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1</p> <p>NOTE:</p> <ol style="list-style-type: none"> 1. Recommend to use grp_type or node only. Grp_type will give all the APNODES or ALL NODES groups and node can enable users to select individual APNODES or PNODES. 2. The "enddatetime" is ignored if the query is to pull "ALL" or "ALL_APNODES" nodes; ie query will return only 1-day's worth of data for all nodes at a time based on the "startdatetime" supplied 3. The "enddatetime" is referenced only when a node is supplied in the query |
| <p>PRC_MPM_RTM_LMP</p> | <p>HASP</p> <p>http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_RTM_LMP&market_run_id=HASP&grp_type=ALL_APNODES&startdatetime=20130920T06:00-0000&enddatetime=20130920T07:00-0000&version=1</p> <p>OR</p> <p>http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_RTM_LMP&market_run_id=HASP&node=3EMIDIO_6_N001&startdatetime=20130919T07:00-0000&enddatetime=20130919T08:00-0000&version=1</p> <p>http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_RTM_LMP&market_run_id=HASP&grp_type=ALL_APNODES&startdatetime=20130920T06:00-0000&enddatetime=20130920T07:00-0000&version=2</p> <p>OR</p> <p>http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_RTM_LMP&market_run_id=HASP&node=3EMIDIO_6_N001&startdatetime=20130919T07:00-0000&enddatetime=20130919T08:00-0000&version=2</p> <p>RTPD</p> <p>http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_RTM_LMP&market_run_id=RTPD&grp_type=ALL_APNODES&startdatetime=20130920T06:00-0000&enddatetime=20130920T07:00-0000&version=1</p> <p>OR</p> <p>http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_RTM_LMP&market_run_id=RTPD&node=3EMIDIO_6_N001&startdatetime=20130919T07:00-0000&enddatetime=20130919T08:00-0000&version=1</p> <p>http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_RTM_LMP&market_run_id=RTPD&grp_type=ALL_APNODES&startdatetime=20130920T06:00-0000&enddatetime=20130920T07:00-0000&version=2</p> <p>OR</p> <p>http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_RTM_LMP&market_run_id=RTPD&node=3EMIDIO_6_N001&startdatetime=20130919T07:00-0000&enddatetime=20130919T08:00-0000&version=2</p> |



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| | <p>NOTE:</p> <ol style="list-style-type: none"> 1. Recommend to use grp_type or node only. Grp_type will give all the APNODES or ALL NODES groups and node can enable users to select individual APNODES or PNODES. 2. The "enddatetime" is ignored if the query is to pull "ALL" or "ALL_APNODES" nodes; ie query will return only 1 hours' worth of data for all nodes at a time based on the "startdatetime" supplied 3. The "enddatetime" is referenced only when a node is supplied in the query 4. Only new version (version=2) introduced as part of Fall 2014 release will include new element LMP_GHG_PRC. |
| PRC_MPM_NOMOGRAM | http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_NOMOGRAM&market_run_id=DAM&nomogram_id=ALL&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1 |
| PRC_MPM_RTM_NOMOGRAM | <p>HASP</p> <p>http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_RTM_NOMOGRAM&market_run_id=HASP&nomogram_id=ALL&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1</p> <p>RTPD</p> <p>http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_RTM_NOMOGRAM&market_run_id=RTPD&nomogram_id=ALL&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1</p> |
| PRC_MPM_NOMOGRAM_CMP | http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_NOMOGRAM_CMP&market_run_id=DAM&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1 |
| PRC_MPM_RTM_NOMOGRAM_CMP | <p>http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_RTM_NOMOGRAM_CMP&market_run_id=HASP&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1</p> <p>OR</p> <p>http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_RTM_NOMOGRAM_CMP&market_run_id=RTPD&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1</p> <p>OR</p> <p>http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_RTM_NOMOGRAM_CMP&market_run_id=RTD&startdatetime=20170213T08:00-0000&enddatetime=20170214T08:00-0000&version=1</p> |
| PRC_MPM_CNSTR | http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_CNSTR&market_run_id=DAM&nomogram_id=ALL&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1 |



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| PRC_MPM_RTM_FLOWGATE | http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_RTM_FLOWGATE&market_run_id=HASP&ti_id=ALL&startdatetime=20130919T07:00-0000&enddate=20130920T07:00-0000&version=1 http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_RTM_FLOWGATE&market_run_id=RTPD&ti_id=ALL&startdatetime=20130919T07:00-0000&enddate=20130920T07:00-0000&version=1 |
| PRC_MPM_CNSTR_CMP | http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_CNSTR_CMP&market_run_id=DAM&startdatetime=20130919T07:00-0000&enddate=20130920T07:00-0000&version=1 http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_CNSTR_CMP&market_run_id=HASP&startdatetime=20130919T07:00-0000&enddate=20130920T07:00-0000&version=1 http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_CNSTR_CMP&market_run_id=RTPD&startdatetime=20130919T07:00-0000&enddate=20130920T07:00-0000&version=1 http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_CNSTR_CMP&market_run_id=RTD&startdatetime=20170213T08:00-0000&enddate=20170214T08:00-0000&version=1 |
| PRC_MPM_REF_BUS | http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_REF_BUS&market_run_id=DAM&startdatetime=20130919T07:00-0000&enddate=20130920T07:00-0000&version=1 |
| PRC_MPM_RTM_REF_BUS | http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_RTM_REF_BUS&market_run_id=HASP&startdatetime=20130919T07:00-0000&enddate=20130920T07:00-0000&version=1 http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_RTM_REF_BUS&market_run_id=RTPD&startdatetime=20130919T07:00-0000&enddate=20130920T07:00-0000&version=1 http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_RTM_REF_BUS&market_run_id=RTD&startdatetime=20170213T08:00-0000&enddate=20170214T08:00-0000&version=1 |
| PRC_GHG_ALLOWANCE | http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_GHG_ALLOWANCE&startdatetime=20130919T07:00-0000&enddate=20130920T07:00-0000&version=1 |
| PRC_EIM_GHG | http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_EIM_GHG&market_run_id=RTPD&startdatetime=20141001T07:00-0000&enddate=20141002T07:00-0000&version=2 OR |



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| | http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_EIM_GHG&market_run_id=RTD&startdatetime=20141001T07:00-0000&enddatetime=20141002T07:00-0000&version=2 |
| PRC_SPTIE_LMP | <p> http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_SPTIE_LMP&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=3&market_run_id=DAM&grp_type=ALL_APNODES OR http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_SPTIE_LMP&startdatetime=20160919T07:00-0000&enddatetime=20160920T07:00-0000&version=4&market_run_id=DAM&grp_type=ALL_APNODES OR http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_SPTIE_LMP&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=3&market_run_id=DAM&node=LAPLMG1_7_B2 OR http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_SPTIE_LMP&startdatetime=20160919T07:00-0000&enddatetime=20160920T07:00-0000&version=4&market_run_id=DAM&node=LAPLMG1_7_B2 OR http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_SPTIE_LMP&startdatetime=20130919T07:00-0000&enddatetime=20130919T08:00-0000&version=3&market_run_id=RTPD&grp_type=ALL_APNODES OR http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_SPTIE_LMP&startdatetime=20160919T07:00-0000&enddatetime=20160919T08:00-0000&version=4&market_run_id=RTPD&grp_type=ALL_APNODES OR http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_SPTIE_LMP&startdatetime=20130919T07:00-0000&enddatetime=20130919T08:00-0000&version=3&market_run_id=RTPD&node=LAPLMG1_7_B2 OR http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_SPTIE_LMP&startdatetime=20160919T07:00-0000&enddatetime=20160919T08:00-0000&version=4&market_run_id=RTPD&node=LAPLMG1_7_B2 OR http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_SPTIE_LMP&startdatetime=20130919T07:00-0000&enddatetime=20130919T08:00-0000&version=3&market_run_id=RTD&grp_type=ALL_APNODES OR http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_SPTIE_LMP&startdatetime=20160919T07:00-0000&enddatetime=20160919T08:00-0000&version=4&market_run_id=RTD&grp_type=ALL_APNODES </p> |



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| | <p>OR</p> <p>http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_SPTIE_LMP&startdatetime=20130919T07:00-0000&enddatetime=20130919T08:00-0000&version=3&market_run_id=RTD&node=LAPLMG1_7_B2</p> <p>OR</p> <p>http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_SPTIE_LMP&startdatetime=20160919T07:00-0000&enddatetime=20160919T08:00-0000&version=4&market_run_id=RTD&node=LAPLMG1_7_B2</p> <p>OR</p> <p>http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_SPTIE_LMP&startdatetime=20160919T07:00-0000&enddatetime=20160920T07:00-0000&version=5&market_run_id=DAM&grp_type=ALL_APNODES</p> <p>OR</p> <p>http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_SPTIE_LMP&startdatetime=20160919T07:00-0000&enddatetime=20160920T07:00-0000&version=5&market_run_id=DAM&node=LAPLMG1_7_B2</p> <p>OR</p> <p>http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_SPTIE_LMP&startdatetime=20160919T07:00-0000&enddatetime=20160919T08:00-0000&version=5&market_run_id=RTPD&grp_type=ALL_APNODES</p> <p>OR</p> <p>http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_SPTIE_LMP&startdatetime=20130919T07:00-0000&enddatetime=20130919T08:00-0000&version=5&market_run_id=RTPD&node=LAPLMG1_7_B2</p> <p>OR</p> <p>http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_SPTIE_LMP&startdatetime=20160919T07:00-0000&enddatetime=20160919T08:00-0000&version=5&market_run_id=RTD&grp_type=ALL_APNODES</p> <p>OR</p> <p>http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_SPTIE_LMP&startdatetime=20160919T07:00-0000&enddatetime=20160919T08:00-0000&version=5&market_run_id=RTD&node=LAPLMG1_7_B2</p> <p>NOTE:</p> <p>0.1. Recommend to use grp_type or node only. Grp_type will give all the APNODES or ALL NODES groups and node can enable users to select individual APNODES or PNODES.</p> <p>0.2. The “enddatetime” is ignored if the query is to pull “ALL” or “ALL_APNODES” nodes; ie query will return only 1-days’ worth of data for all nodes at a time based on the “startdatetime” supplied</p> <p>0.3. The “enddatetime” is referenced only when a node is supplied in the query</p> <p>0.4. The v4 version will include the following additional components</p> <p style="padding-left: 40px;">LMP_ENE_PRC</p> <p style="padding-left: 40px;">LMP_LOSS_PRC</p> |
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| | LMP_GHG_PRC |
| PRC_RTM_SCH_CNSTR | <p>http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_RTM_SCH_CNSTR&market_run_id=RTPD&sch_cnstr_id=ALL&startdatetime=20160919T07:00-0000&enddate=20160920T07:00-0000&version=4</p> <p>RTD</p> <p>http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_RTM_SCH_CNSTR&market_run_id=RTD&sch_cnstr_id=ALL&startdatetime=20160919T07:00-0000&enddate=20160920T07:00-0000&version=4</p> |
| PRC_MPM_DEFAULT_CMP | <p>http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_DEFAULT_CMP&market_run_id=DAM &startdatetime=20160919T07:00-0000&enddate=20160920T07:00-0000&version=5</p> <p>http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_DEFAULT_CMP&market_run_id=RTM &startdatetime=20160919T07:00-0000&enddate=20160920T07:00-0000&version=5</p> |
| PRC_RTM_LAP | <p>http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_RTM_LAP&startdatetime=20171020T07:00-0000&enddate=20171021T07:00-0000&version=6&market_run_id=RTM&grp_type=ALL_APNODES</p> <p>OR</p> <p>http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_RTM_LAP&startdatetime=20171020T07:00-0000&enddate=20171021T07:00-0000&version=6&market_run_id=RTM&node=ELAP_PACE-APND</p> |
| SYSTEM DEMAND | |
| SLD_FCST_PEAK | http://oasis.caiso.com/oasisapi/SingleZip?queryname=SLD_FCST_PEAK&startdatetime=20130919T07:00-0000&enddate=20130920T07:00-0000&version=1 |
| SLD_FCST | <p>http://oasis.caiso.com/oasisapi/SingleZip?queryname=SLD_FCST&market_run_id=DAM&startdatetime=20130919T07:00-0000&enddate=20130920T07:00-0000&version=1</p> <p>http://oasis.caiso.com/oasisapi/SingleZip?queryname=SLD_FCST&market_run_id=2DA&startdatetime=20130919T07:00-0000&enddate=20130920T07:00-0000&version=1</p> <p>http://oasis.caiso.com/oasisapi/SingleZip?queryname=SLD_FCST&market_run_id=7DA&startdatetime=20130919T07:00-0000&enddate=20130920T07:00-0000&version=1</p> <p>http://oasis.caiso.com/oasisapi/SingleZip?queryname=SLD_FCST&market_run_id=RTM&execution_type=RTD&startdatetime=20130919T07:00-0000&enddate=20130920T07:00-0000&version=1</p> |



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| | http://oasis.caiso.com/oasisapi/SingleZip?queryname=SLD_FCST&market_run_id=RTM&execution_type=RTPD&startdatetime=20130919T07:00-0000&enddate=20130920T07:00-0000&version=1 |
| SLD_REN_FCST | http://oasis.caiso.com/oasisapi/SingleZip?queryname=SLD_REN_FCST&market_run_id=DAM&startdatetime=20130919T07:00-0000&enddate=20130920T07:00-0000&version=1 http://oasis.caiso.com/oasisapi/SingleZip?queryname=SLD_REN_FCST&market_run_id=RTPD&startdatetime=20130919T07:00-0000&enddate=20130920T07:00-0000&version=1 http://oasis.caiso.com/oasisapi/SingleZip?queryname=SLD_REN_FCST&market_run_id=RTD&startdatetime=20130919T07:00-0000&enddate=20130920T07:00-0000&version=1 |
| SLD_ADV_FCST | http://oasis.caiso.com/oasisapi/SingleZip?queryname=SLD_ADV_FCST&market_run_id=RTPD&startdatetime=20160419T07:00-0000&enddate=20160420T07:00-0000&version=4 OR http://oasis.caiso.com/oasisapi/SingleZip?queryname=SLD_ADV_FCST&market_run_id=RTD&startdatetime=20160419T07:00-0000&enddate=20160420T07:00-0000&version=4 |
| SLD_SF_EVAL_DMD_FCST | http://oasis.caiso.com/oasisapi/SingleZip?queryname=SLD_SF_EVAL_DMD_FCST&granularity=HOURLY&startdatetime=20160419T07:00-0000&enddate=20160420T07:00-0000&version=4 http://oasis.caiso.com/oasisapi/SingleZip?queryname=SLD_SF_EVAL_DMD_FCST&granularity=15MIN&startdatetime=20160419T07:00-0000&enddate=20160420T07:00-0000&version=4 |
| ENERGY | |
| ENE_SLRS | http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_SLRS&market_run_id=DAM&ta c_zone_name=ALL&schedule=ALL&startdatetime=20130919T07:00-0000&enddate=20130920T07:00-0000&version=1 |
| ENE_EA | http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_EA&energy_type=ALL&opr_inte rval=ALL&startdatetime=20130919T07:00-0000&enddate=20130920T07:00-0000&version=1 http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_EA&energy_t ype=ALL&opr_interval=ALL&startdatetime=20130919T07:00-0000&enddate=20130920T07:00-0000&version=2 |
| ENE_MPM | http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_MPM&market_run_id=DAM&st artdatetime=20130919T07:00-0000&enddate=20130920T07:00-0000&version=1 OR http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_MPM&market_run_id=RTM&ex ecution_type=HASP&startdatetime=20130919T07:00-0000&enddate=20130920T07:00-0000&version=1 OR http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_MPM&market_run_id=RTM&ex ecution_type=RTPD&startdatetime=20130919T07:00-0000&enddate=20130920T07:00-0000&version=1 http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_MPM&market_run_id=DAM&ba a_id=ALL&startdatetime=20141001T07:00-0000&enddate=20141002T07:00-0000&version=2 OR |



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| | http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_MPM&market_run_id=RTM&execution_type=HASP&baa_id=ALL&startdatetime=20141001T07:00-0000&enddatetime=20141002T07:00-0000&version=2 OR http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_MPM&market_run_id=RTM&execution_type=RTPD&baa_id=ALL&startdatetime=20141001T07:00-0000&enddatetime=20141002T07:00-0000&version=2 OR http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_MPM&market_run_id=RTM&execution_type=RTD&baa_id=ALL&startdatetime=20161001T07:00-0000&enddatetime=20161002T07:00-0000&version=2 |
| CMMT_RMR | http://oasis.caiso.com/oasisapi/SingleZip?queryname=CMMT_RMR&market_run_id=DAM&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1 |
| ENE_DISP | http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_DISP&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1 |
| ENE_LOSS | http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_LOSS&market_run_id=DAM&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1 |
| CMMT_RA_MLC | http://oasis.caiso.com/oasisapi/SingleZip?queryname=CMMT_RA_MLC&market_run_id=DAM&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1 |
| ENE_CB_AWARDS | http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_CB_AWARDS&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1 |
| ENE_CB_CLR_AWARDS | http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_CB_CLR_AWARDS&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1 |
| ENE_CB_MKT_SUM | http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_CB_MKT_SUM&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1 |
| CB_NODAL_LIMITS | http://oasis.caiso.com/oasisapi/SingleZip?queryname=CB_NODAL_LIMITS&node_id=RNC_HSECO_2_N108&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1 |
| ENE_CD_SLRS | http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_CD_SLRS&market_run_id=RTM&tac_zone_name=ALL&schedule=ALL&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1 |
| AGGR_OUTAGE_SCH | http://oasis.caiso.com/oasisapi/SingleZip?queryname=AGGR_OUTAGE_SCH&fuel_category=Renewable&trading_hub=NP15&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1 |
| ENE_EIM_TRANSFER_LIMITS | http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_EIM_TRANSFER_LIMITS&market_run_id=RTD&baa_grp_id=ALL&startdatetime=20141001T07:00-0000&enddatetime=20141002T07:00-0000&version=2 http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_EIM_TRANSFER_LIMITS&market_run_id=RTPD&baa_grp_id=ALL&startdatetime=20141001T07:00-0000&enddatetime=20141002T07:00-0000&version=2 http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_EIM_TRANSFER_LIMITS&market_run_id=ALL&baa_grp_id=ALL&startdatetime=20141001T07:00-0000&enddatetime=20141002T07:00-0000&version=2 |
| ENE_EIM_TRANSFER | http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_EIM_TRANSFER&market_run_id=RTD&baa_grp_id=ALL&startdatetime=20141001T07:00-0000&enddatetime=20141002T07:00-0000&version=2 |



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| | http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_EIM_TRANSFER&market_run_id=RTPD&baa_grp_id=ALL&startdatetime=20141001T07:00-0000&enddatetime=20141002T07:00-0000&version=2 http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_EIM_TRANSFER&market_run_id=ALL&baa_grp_id=ALL&startdatetime=20141001T07:00-0000&enddatetime=20141002T07:00-0000&version=2 |
| ENE_EIM_DYN_NSI | http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_EIM_DYN_NSI&market_run_id=RTD&baa_id=ALL&startdatetime=20141001T07:00-0000&enddatetime=20141002T07:00-0000&version=2 http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_EIM_DYN_NSI&market_run_id=RTPD&baa_id=ALL&startdatetime=20141001T07:00-0000&enddatetime=20141002T07:00-0000&version=2 http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_EIM_DYN_NSI&market_run_id=ALL&baa_id=ALL&startdatetime=20141001T07:00-0000&enddatetime=20141002T07:00-0000&version=2 |
| ENE_BASE_NSI | http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_BASE_NSI&market_run_id=DAM&baa_id=ALL&snapshot_indicator=DA&startdatetime=20141001T07:00-0000&enddatetime=20141002T07:00-0000&version=2 http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_BASE_NSI&market_run_id=RTPD&baa_id=ALL&startdatetime=20141001T07:00-0000&enddatetime=20141002T07:00-0000&version=2 http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_BASE_NSI&market_run_id=RTD&baa_id=ALL&snapshot_indicator=T75MIN&startdatetime=20141001T07:00-0000&enddatetime=20141002T07:00-0000&version=2 snapshot_indicator = T75MIN, T55MIN, T40MIN, DA |
| ENE_HRLY_BASE_NSI | http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_HRLY_BASE_NSI&market_run_id=DAM&baa_id=ALL&snapshot_indicator=ALL&startdatetime=20161001T07:00-0000&enddatetime=20161002T07:00-0000&version=4 http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_HRLY_BASE_NSI&market_run_id=RTM&baa_id=ALL&snapshot_indicator=ALL&startdatetime=20161001T07:00-0000&enddatetime=20161002T07:00-0000&version=2 Snapshot_indicator = T75MIN, T55MIN, T40MIN, DA |
| ENE_HRLY_BASE_LOSS | http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_HRLY_BASE_LOSS&market_run_id=DAM&baa_id=ALL&snapshot_indicator=ALL&startdatetime=20161001T07:00-0000&enddatetime=20161002T07:00-0000&version=4 http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_HRLY_BASE_LOSS&market_run_id=RTM&baa_id=ALL&snapshot_indicator=ALL&startdatetime=20161001T07:00-0000&enddatetime=20161002T07:00-0000&version=2 Snapshot_indicator = T75MIN, T55MIN, T40MIN, DA |



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| ENE_UNCERTAINTY_MV | http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_UNCERTAINTY_MV&market_run_id=RTD&baa_grp_id=ALL&startdatetime=20160401T07:00-0000&enddate=20160402T07:00-0000&version=4 |
| ENE_FLEX_RAMP_REQT | <p>Before Fall 2016 release</p> <p>http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_FLEX_RAMP_REQT&market_run_id=RTPD&baa_grp_id=ALL&startdatetime=20160401T07:00-0000&enddate=20160402T07:00-0000&version=4</p> <p>OR</p> <p>After Fall 2016 release</p> <p>http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_FLEX_RAMP_REQT&market_run_id=RTPD&baa_grp_id=ALL&startdatetime=20160401T07:00-0000&enddate=20160402T07:00-0000&version=4</p> <p>http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_FLEX_RAMP_REQT&market_run_id=RTD&baa_grp_id=ALL&startdatetime=20160401T07:00-0000&enddate=20160402T07:00-0000&version=4</p> |
| ENE_AGGR_FLEX_RAMP | <p>http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_AGGR_FLEX_RAMP&market_run_id=RTPD&baa_grp_id=ALL&startdatetime=20160401T07:00-0000&enddate=20160402T07:00-0000&version=4</p> <p>OR</p> <p>http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_AGGR_FLEX_RAMP&market_run_id=RTD&baa_grp_id=ALL&startdatetime=20160401T07:00-0000&enddate=20160402T07:00-0000&version=4</p> |
| ENE_FLEX_RAMP_DC | <p>http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_FLEX_RAMP_DC&market_run_id=RTPD&baa_grp_id=ALL&startdatetime=20160401T07:00-0000&enddate=20160402T07:00-0000&version=4</p> <p>http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_FLEX_RAMP_DC&market_run_id=RTD&baa_grp_id=ALL&startdatetime=20160401T07:00-0000&enddate=20160402T07:00-0000&version=4</p> |
| ENE_EIM_TRANSFER_TIE | <p>http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_EIM_TRANSFER_TIE&market_run_id=RTD&baa_grp_id=ALL&startdatetime=20161001T07:00-0000&enddate=20161002T07:00-0000&version=4</p> <p>http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_EIM_TRANSFER_TIE&market_run_id=RTPD&baa_grp_id=ALL&startdatetime=20161001T07:00-0000&enddate=20161002T07:00-0000&version=4</p> <p>http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_EIM_TRANSFER_TIE&market_run_id=ALL&baa_grp_id=ALL&startdatetime=20141001T07:00-0000&enddate=20161002T07:00-0000&version=4</p> |
| ENE_EIM_TRANSFER_LIMITS_TIE | <p>http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_EIM_TRANSFER_LIMITS_TIE&market_run_id=RTD&baa_grp_id=ALL&startdatetime=20161001T07:00-0000&enddate=20161002T07:00-0000&version=5</p> <p>http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_EIM_TRANSFER_LIMITS_TIE&market_run_id=RTPD&baa_grp_id=ALL&startdatetime=20161001T07:00-0000&enddate=20161002T07:00-0000&version=5</p> |



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| ENE_WIND_SOLAR_SUMMARY | http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_WIND_SOLAR_SUMMARY &startdatetime=20161001T07:00-0000&enddate=20161002T07:00-0000&version=5 |
| ENE_EIM_FLEX_RAMP_INPUT | http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_EIM_FLEX_RAMP_INPUT&market_run_id=RTM&baa_grp_id=ALL&snapshot_indicator=ALL&startdatetime=20161001T07:00-0000&enddate=20171002T07:00-0000&version=6 Snapshot_indicator = T75MIN, T55MIN, T40MIN |
| ANCILLARY | |
| AS_REQ | http://oasis.caiso.com/oasisapi/SingleZip?queryname=AS_REQ&market_run_id=DAM&anc_type=ALL&anc_region=ALL&startdatetime=20130919T07:00-0000&enddate=20130920T07:00-0000&version=1 OR http://oasis.caiso.com/oasisapi/SingleZip?queryname=AS_REQ&market_run_id=HASP&anc_type=ALL&anc_region=ALL&startdatetime=20130919T07:00-0000&enddate=20130920T07:00-0000&version=1 OR http://oasis.caiso.com/oasisapi/SingleZip?queryname=AS_REQ&market_run_id=RTM&anc_type=ALL&anc_region=ALL&startdatetime=20130919T07:00-0000&enddate=20130920T07:00-0000&version=1 |
| AS_RESULTS | http://oasis.caiso.com/oasisapi/SingleZip?queryname=AS_RESULTS&market_run_id=DAM&anc_type=ALL&anc_region=ALL&startdatetime=20130919T07:00-0000&enddate=20130920T07:00-0000&version=1 OR http://oasis.caiso.com/oasisapi/SingleZip?queryname=AS_RESULTS&market_run_id=HASP&anc_type=ALL&anc_region=ALL&startdatetime=20130919T07:00-0000&enddate=20130920T07:00-0000&version=1 OR http://oasis.caiso.com/oasisapi/SingleZip?queryname=AS_RESULTS&market_run_id=RTM&anc_type=ALL&anc_region=ALL&startdatetime=20130919T07:00-0000&enddate=20130920T07:00-0000&version=1 |
| AS_OP_RSRV | http://oasis.caiso.com/oasisapi/SingleZip?queryname=AS_OP_RSRV&startdatetime=20130919T07:00-0000&enddate=20130920T07:00-0000&version=1 |
| AS_MILEAGE_CALC | http://oasis.caiso.com/oasisapi/SingleZip?queryname=AS_MILEAGE_CALC&anc_type=ALL&startdatetime=20130919T07:00-0000&enddate=20130920T07:00-0000&version=1 |
| CRR | |
| CRR_CLEARING | http://oasis.caiso.com/oasisapi/SingleZip?queryname=CRR_CLEARING&market_name=ALL&market_term=ALL&time_of_use=ALL&startdatetime=20130919T07:00-0000&enddate=20130920T07:00-0000&version=1 |
| CRR_INVENTORY | http://oasis.caiso.com/oasisapi/SingleZip?queryname=CRR_INVENTORY&market_name=ALL&LOC_AN_2013_S03_TR&market_term=ALL&time_of_use=ALL&startdatetime=20130924T07:00-0000&enddate=20130925T07:00-0000&version=1 |
| PUBLICBIDS | |
| PUB_BID | http://oasis.caiso.com/oasisapi/GroupZip?groupid=PUB_RTM_GRP&startdatetime=20130919T07:00-0000&version=1 (for RTM) OR |



| | |
|-------------------|--|
| | <p>http://oasis.caiso.com/oasisapi/GroupZip?groupid=PUB_RTM_GRP&startdatetime=20160919T07:00-0000&version=2 (for RTM)</p> <p>Note : version 2 will provide GHG product.</p> <p>OR</p> <p>http://oasis.caiso.com/oasisapi/GroupZip?groupid=PUB_DAM_GRP&startdatetime=20130919T07:00-0000&version=1 (for DAM)</p> |
| PUB_CB_BID | <p>http://oasis.caiso.com/oasisapi/GroupZip?groupid=PUB_CB_DAM_GRP&startdatetime=20130919T07:00-0000&version=1 (for DAM)</p> <p>http://oasis.caiso.com/oasisapi/GroupZip?groupid=PUB_CB_DAM_GRP&startdatetime=20130919T07:00-0000&version=2 (for DAM)</p> |
| PUB_CRR_BID | <p>http://oasis.caiso.com/oasisapi/GroupZip?groupid=PUB_CRR_BID_SEASONAL_GRP&startdatetime=20130919T07:00-0000&version=1</p> <p>http://oasis.caiso.com/oasisapi/GroupZip?groupid=PUB_CRR_BID_MONTHLY_GRP&startdatetime=20130919T07:00-0000&version=1</p> |
| PUB_CSP_OFFER_SET | <p>http://oasis.caiso.com/oasisapi/GroupZip?groupid=PUB_CSP_OFFER_SET_ANNUAL_GRP&startdatetime=20170101T08:00-0000&version=1</p> <p>http://oasis.caiso.com/oasisapi/GroupZip?groupid=PUB_CSP_OFFER_SET_MONTHLY_GRP&startdatetime=20170102T08:00-0000&version=1</p> <p>http://oasis.caiso.com/oasisapi/GroupZip?groupid=PUB_CSP_OFFER_SET_INTRAMONTHLY_GRP&startdatetime=20170110T08:00-0000&version=1</p> |
| ATLAS | |
| ATL_PNODE | http://oasis.caiso.com/oasisapi/SingleZip?queryname=ATL_PNODE&Pnode_id=12THST_6_N101&Pnode_type=ALL&startdatetime=20130919T07:00-0000&enddate=20130920T07:00-0000&version=1 |
| ATL_APNODE | http://oasis.caiso.com/oasisapi/SingleZip?queryname=ATL_APNODE&APnode_type=ALL&startdatetime=20130919T07:00-0000&enddate=20130920T07:00-0000&version=1 |
| ATL_LDF | http://oasis.caiso.com/oasisapi/SingleZip?queryname=ATL_LDF&apnode_id=AGRICO_6_PL3N5_APND&startdatetime=20130919T07:00-0000&enddate=20130920T07:00-0000&version=1 |
| ATL_LAP | http://oasis.caiso.com/oasisapi/SingleZip?queryname=ATL_LAP&APnode_type=ALL&startdatetime=20130919T07:00-0000&enddate=20130920T07:00-0000&version=1 |
| ATL_RESOURCE | http://oasis.caiso.com/oasisapi/SingleZip?queryname=ATL_RESOURCE&resource_id=8MILE_2_V200LD&agge_type=ALL&resource_type=ALL&startdatetime=20130919T07:00-0000&enddate=20130920T07:00-0000&version=1 |
| ATL_HUB | http://oasis.caiso.com/oasisapi/SingleZip?queryname=ATL_HUB&startdatetime=20130919T07:00-0000&enddate=20130920T07:00-0000&version=1 |
| ATL_PNODE_MAP | http://oasis.caiso.com/oasisapi/SingleZip?queryname=ATL_PNODE_MAP&pnode_id=KEARNY_7_KY2D&startdatetime=20130919T07:00-0000&enddate=20130920T07:00-0000&version=1 |



| | |
|-------------------|--|
| ATL_AS_REGION_MAP | http://oasis.caiso.com/oasisapi/SingleZip?queryname=ATL_AS_REGION_MAP&as_region_id=A54_CNTR&startdate=20130919T07:00-0000&enddate=20130920T07:00-0000&version=1 |
| ATL_RUC_ZONE_MAP | http://oasis.caiso.com/oasisapi/SingleZip?queryname=ATL_RUC_ZONE_MAP&startdate=20130919T07:00-0000&enddate=20130920T07:00-0000&version=1 |
| ATL_TAC_AREA | http://oasis.caiso.com/oasisapi/SingleZip?queryname=ATL_TAC_AREA_MAP&startdate=20130919T07:00-0000&enddate=20130920T07:00-0000&version=1 |
| ATL_TIEPOINT | http://oasis.caiso.com/oasisapi/SingleZip?queryname=ATL_TIEPOINT&resource_type=ALL&startdate=20130919T07:00-0000&enddate=20130920T07:00-0000&version=1 |
| ATL_TI | http://oasis.caiso.com/oasisapi/SingleZip?queryname=ATL_TI&Ti_type=ALL&wecc_path=ALL&startdate=20130919T07:00-0000&enddate=20130920T07:00-0000&version=1 |
| ATL_PUB | http://oasis.caiso.com/oasisapi/SingleZip?queryname=ATL_PUB&market_run_id=DAM&oasis_section=ALL&status=ALL&atlpubversion=ALL&startdate=20130919T07:00-0000&enddate=20130920T07:00-0000&version=1 |
| ATL_PUB_SCHED | http://oasis.caiso.com/oasisapi/SingleZip?queryname=ATL_PUB_SCHED&market_run_id=DAM&oasis_section=ALL&publication_type=ALL&startdate=20130919T07:00-0000&enddate=20130920T07:00-0000&version=1 |
| ATL_OSM | http://oasis.caiso.com/oasisapi/SingleZip?queryname=ATL_OSM&msg_severity=ALL&startdate=20130919T07:00-0000&enddate=20130920T07:00-0000&version=1 |
| ATL_PEAK_ON_OFF | http://oasis.caiso.com/oasisapi/SingleZip?queryname=ATL_PEAK_ON_OFF&startdate=20130919T07:00-0000&enddate=20130920T07:00-0000&version=1 |
| ATL_CBNODE | http://oasis.caiso.com/oasisapi/SingleZip?queryname=ATL_CBNODE&startdate=20130919T07:00-0000&enddate=20130920T07:00-0000&version=2 |
| ATL_PRC_CORR_MSG | <p>http://oasis.caiso.com/oasisapi/SingleZip?queryname=ATL_PRC_CORR_MSG&startdate=20130919T07:00-0000&enddate=20130920T07:00-0000&version=3</p> <p>http://oasis.caiso.com/oasisapi/SingleZip?queryname=ATL_PRC_CORR_MSG&market_run_id=DAM&startdate=20130919T07:00-0000&enddate=20130920T07:00-0000&version=3</p> <p>Note: market_run_id are DAM, RTD, RTPD, RUC</p> |
| ATL_SP | <p>http://oasis.caiso.com/oasisapi/SingleZip?queryname=ATL_SP&startdate=20130919T07:00-0000&enddate=20130920T07:00-0000&version=3</p> <p>http://oasis.caiso.com/oasisapi/SingleZip?queryname=ATL_SP&BAA_ID=CISO&startdate=20130919T07:00-0000&enddate=20130920T07:00-0000&version=3</p> |
| ATL_BAA_TIE | <p>http://oasis.caiso.com/oasisapi/SingleZip?queryname=ATL_BAA_TIE&startdate=20130919T07:00-0000&enddate=20130920T07:00-0000&version=3</p> <p>http://oasis.caiso.com/oasisapi/SingleZip?queryname=ATL_BAA_TIE&FROM_BAA_ID=AZPS&TO_BAA_ID=ARIZ&startdate=20130919T07:00-0000&enddate=20130920T07:00-0000&version=3</p> |



| | |
|-----------------|---|
| ATL_SP_TIE | http://oasis.caiso.com/oasisapi/SingleZip?queryname=ATL_SP_TIE&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=3 http://oasis.caiso.com/oasisapi/SingleZip?queryname=ATL_SP_TIE&TIE_NAME=AMARGOSA230&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=3 |
| ATL_ITC_SP | http://oasis.caiso.com/oasisapi/SingleZip?queryname=ATL_ITC_SP&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=3 http://oasis.caiso.com/oasisapi/SingleZip?queryname=ATL_ITC_SP&TIEPOINT_NAME=ADLANTO-SP_ITC&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=3 |
| ATL_ISL_TIE | http://oasis.caiso.com/oasisapi/SingleZip?queryname=ATL_ISL_TIE&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=3 http://oasis.caiso.com/oasisapi/SingleZip?queryname=ATL_ISL_TIE&TIE_NAME=MALIN500&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=3 |
| ATL_GEN_CAP_LST | http://oasis.caiso.com/oasisapi/SingleZip?queryname=ATL_GEN_CAP_LST&startdatetime=20170919T07:00-0000&enddatetime=20170920T07:00-0000&version=4 or http://oasis.caiso.com/oasisapi/SingleZip?queryname=ATL_GEN_CAP_LST&resource_id=ARLVAL_5_SOLAR&startdatetime=20170919T07:00-0000&enddatetime=20170920T07:00-0000&version=4 or http://oasis.caiso.com/oasisapi/SingleZip?queryname=ATL_GEN_CAP_LST&agge_type=Y&startdatetime=20170919T07:00-0000&enddatetime=20170920T07:00-0000&version=4 |



7. Group Report Definitions

This section contains all GroupIDs and corresponding reports.

| GroupID | Reports In Group | Market Type | Report XML Names |
|--------------------|--|-------------|---|
| DAM_LMP_GRP | Locational Marginal Prices (LMP) | DAM | PRC_LMP (Note: 4 files will be created LMP, MCC, MCE, MCL for the trade date & will be cached for all nodes) |
| DAM_SPTIE_LMP_GRP | DAM Scheduling Point Tie Locational Marginal Prices (LMP) | DAM | PRC_SPTIE_LMP (Note: For version=3, 2 files will be created LMP, MCC for the trade date & will be cached for all nodes and for version =4,5, 4,5 files will be created LMP, MCC, MCE and MCL for the trade date) |
| RTPD_SPTIE_LMP_GRP | RTPD Scheduling Point Tie Locational Marginal Prices (LMP) | RTPD | PRC_SPTIE_LMP (Note: Hourly 4 intervals cached files for trade date & will be cached for all nodes) |
| RTD_SPTIE_LMP_GRP | RTD Scheduling Point Tie Locational Marginal Prices (LMP) | RTD | PRC_SPTIE_LMP (Note: Hourly 12 intervals cached files for trade date & will be cached for all |
| RUC_LMP_GRP | Locational Marginal Prices (LMP) | RUC | PRC_LMP (Note: 1 file will be created LMP for the trade date & will be cached for all nodes) |
| HASP_LMP_GRP | HASP Locational Marginal Prices (LMP) | HASP | PRC_HASP_LMP (Note: Hourly 4 intervals cached files for trade date & will be cached for all nodes) |
| RTPD_LMP_GRP | RTPD Locational Marginal Prices (LMP) | RTPD | PRC_RTPD_LMP (Note: Hourly 4 intervals cached files for trade date & will be cached for all nodes) |
| RTM_LMP_GRP | Interval Locational Marginal Prices (LMP) | RTM | PRC_INTVL_LMP (Note: Hourly 12 intervals cached files for trade date |



| | | | |
|-----------------|--|---------------------------------|---|
| | | | & will be cached for all nodes) |
| DAM_PRC_AS_GRP | AS Clearing Prices | DAM | PRC_AS (Note: Daily cached files for trade date & will be cached for all AS Regions) |
| HASP_PRC_AS_GRP | AS Clearing Prices | HASP | PRC_AS (Note: Daily cached files for trade date & will be cached for all AS Regions) |
| RTM_PRC_AS_GRP | Interval AS Clearing Prices | RTM | PRC_INTVL_AS (Note: Hourly 4 intervals cached files for trade date & will be cached for all AS Regions) |
| DAM_TRNS_GRP | Transmission Interface Usage Market Available Transmission Capacity | DAM DAM | TRNS_USAGE TRNS_ATC |
| HASP_TRNS_GRP | Transmission Interface Usage Market Available Transmission Capacity | HASP HASP | TRNS_USAGE TRNS_ATC |
| RTPD_TRNS_GRP | Transmission Interface Usage Market Available Transmission Capacity | RTPD RTPD | TRNS_USAGE TRNS_ATC |
| DAM1_GRP | TAC Area Demand Forecast System Load and Resource Schedules Market Power Mitigation Status RMR Marginal Losses | DAM DAM DAM DAM DAM | SLD_FCST ENE_SLRS ENE_MPM CMMT_RMR ENE_LOSS |
| RTM1_GRP (RTD) | TAC Area Load Forecast System Load and Resource Schedules | RTM/RTD RTM | SLD_FCST ENE_SLRS |
| RTPD_FCST_GRP | TAC Area Load Forecast | RTM/RTPD | SLD_FCST |



| | | | |
|-----------------|--|------------------------------|--|
| HASP1_GRP | System Load and Resource Schedules TAC Area Load Forecast RMR Marginal Losses | HASP HASP HASP HASP | ENE_SLRS SLD_FCST CMMT_RMR ENE_LOSS |
| POST1_GRP | Expected Energy Exceptional Dispatch | N/A | ENE_EA ENE_DISP |
| DAM_AS_GRP | AS Requirements AS Results | DAM DAM | AS_REQ AS_RESULTS |
| HASP_AS_GRP | AS Requirements AS Results | HASP | AS_REQ AS_RESULTS |
| RTM_AS_GRP | AS Requirements AS Results | RTM (RTPD) | AS_REQ AS_RESULTS |
| PUB_DAM_GRP | Public Bids | DAM | PUB_BID |
| PUB_RTM_GRP | Public Bids | RTM | PUB_BID |
| CURR_LMP_GRP | Current interval Price | RTM | PRC_CURR_LMP |
| DAM_SD_PRC_GRP | Constraint Shadow Prices Nomogram/Branch Shadow Prices | DAM | PRC_CNSTR PRC_NOMOGRAM |
| HASP_SD_PRC_GRP | Constraint Shadow Prices Nomogram/Branch Shadow Prices | HASP | PRC_CNSTR PRC_NOMOGRAM |
| RTM_SD_PRC_GRP | Constraint Shadow Prices Nomogram/Branch Shadow Prices | RTM | PRC_CNSTR PRC_NOMOGRAM |



| | | | |
|--------------------|--|------|---|
| PUB_CB_DAM_GRP | Public CB Bids | DAM | PUB_CB_BID |
| CB_REF_PRC_GRP | Reference Prices | DAM | PRC_DS_REF (Note: File will be created for Supply & Demand Prices for the effective date ranges (quarterly) for all nodes.) |
| CB_CLR_DAM_GRP | Net Cleared Awards | DAM | ENE_CB_CLR_AWARDS |
| CB_NODAL_LMT_GRP | Nodal Limit MW values | DAM | CB_NODAL_LIMITS |
| DAM_FLEX_RAMP_GRP | System ramping nomogram results from DAM market run | DAM | PRC_FLEX_RAMP |
| RTPD_FLEX_RAMP_GRP | System ramping nomogram results from RTPD market run | RTPD | PRC_FLEX_RAMP |
| RTD_FLEX_RAMP_GRP | System ramping nomogram results from RTD market run | RTD | PRC_FLEX_RAMP |
| DAM_MPM_LMP_GRP | MPM Locational Marginal Prices (LMP) | DAM | PRC_MPM_LMP PRC_MPM_LMP_DAM_MC CC PRC_MPM_LMP_DAM_MC CNC PRC_MPM_LMP_DAM_MC E PRC_MPM_LMP_DAM_MC L |
| HASP_MPM_LMP_GRP | MPM HASP Locational Marginal Prices (LMP) | HASP | PRC_MPM_RTM_LMP_HA SP |
| RTPD_MPM_LMP_GRP | MPM RTPD Locational Marginal Prices (LMP) | RTPD | PRC_MPM_RTM_LMP_RT PD |



| | | | |
|------------------------------|--|----------|--|
| | | | |
| DAM_MPM_SD_PRC_GRP | MPM Constraint Shadow Prices MPM Constraint Competitive Paths MPM Nomogram/Branch Shadow Prices MPM Nomogram/Branch Competitive Paths | DAM | PRC_MPM_CONSTR PRC_MPM_CONSTR_CMP PRC_MPM_NOMOGRAM PRC_MPM_NOMOGRAM_CMP |
| HASP_MPM_SD_PRC_GRP | MPM Flowgate Competitive Paths MPM Flowgate Shadow Prices MPM Nomogram/Branch Competitive Paths MPM Nomogram/Branch Shadow Prices | HASP | PRC_MPM_RTM_FLOWGATE_CMP_HASP PRC_MPM_RTM_FLOWGATE_HASP PRC_MPM_NOMOGRAM_CMP_HASP PRC_MPM_NOMOGRAM_HASP |
| RTPD_MPM_SD_PRC_GRP | MPM Flowgate Competitive Paths MPM Flowgate Shadow Prices MPM Nomogram/Branch Competitive Paths MPM Nomogram/Branch Shadow Prices | RTPD | PRC_MPM_RTM_FLOWGATE_CMP_RTPD PRC_MPM_RTM_FLOWGATE_RTPD PRC_MPM_RTM_NOMOGRAM_CMP_RTPD PRC_MPM_RTM_NOMOGRAM_RTPD |
| PUB_CRR_BID_SEASONAL_GRP | Congestion Revenue Rights (CRR) Public Bids From the Annual Auction | SEASONAL | PUB_CRR_BID |
| PUB_CRR_BID_MONTHLY_GRP | Congestion Revenue Rights (CRR) Public Bids From the Monthly Auction | MONTHLY | PUB_CRR_BID |
| AGGR_OUTAGE_SCH_GRP | Aggregated Generation Outages data | N/A | AGGR_OUTAGE_SCH |
| PUB_CSP_OFFER_SET_ANNUAL_GRP | Competitive Solicitation Process Offer Set for annual offer period. | ANNUAL | PUB_CSP_OFFER_SET |



| | | | |
|------------------------------------|---|--------------|--|
| PUB_CSP_OFFER_SET_MONTHLY_GRP | Competitive Solicitation Process Offer Set for monthly offer period. | MONTHLY | PUB_CSP_OFFER_SET |
| PUB_CSP_OFFER_SET_INTRAMONTHLY_GRP | Competitive Solicitation Process Offer Set for intramonthly offer period. | INTRAMONTHLY | PUB_CSP_OFFER_SET |
| RTM_LAP_GRP | Hourly Real Time Market LAP Marginal Cost of Congestion (MCC) for Apnode. | RTM | PRC_RTM_LAP (Note: 5 files will be created LMP, MCC, MCE, MCL, MGHG for the trade date & will be cached for all nodes) |

8. Group URL Query Strings

This section contains examples of all Group report URL Examples for XML Downloads. For CSV format use resultformat=6 as specified above.

| Group ID | Example URL for XML Download |
|-------------------|---|
| PRICES | |
| DAM_LMP_GRP | http://oasis.caiso.com/oasisapi/GroupZip?groupid=DAM_LMP_GRP&startdatetime=20130919T07:00-0000&version=1 |
| DAM_SPTIE_LMP_GRP | http://oasis.caiso.com/oasisapi/GroupZip?groupid=DAM_SPTIE_LMP_GRP&startdatetime=20130919T07:00-0000&version=3 OR http://oasis.caiso.com/oasisapi/GroupZip?groupid=DAM_SPTIE_LMP_GRP&startdatetime=20160919T07:00-0000&version=4 OR http://oasis.caiso.com/oasisapi/GroupZip?groupid=DAM_SPTIE_LMP_GRP&startdatetime=20160919T07:00-0000&version=5 |
| RUC_LMP_GRP | http://oasis.caiso.com/oasisapi/GroupZip?groupid=RUC_LMP_GRP&startdatetime=20130919T07:00-0000&version=1 |
| HASP_LMP_GRP | http://oasis.caiso.com/oasisapi/GroupZip?groupid=HASP_LMP_GRP&startdatetime=20130919T07:00-0000&enddatetime=20130919T08:00-0000&version=1 OR http://oasis.caiso.com/oasisapi/GroupZip?groupid=HASP_LMP_GRP&startdatetime=20130919T07:00-0000&enddatetime=20130919T08:00-0000&version=3 |



| Group ID | Example URL for XML Download |
|--------------------|---|
| | <p>Note: Version 3 response zip file will include separate file for each price component</p> |
| RTPD_LMP_GRP | <p>http://oasis.caiso.com/oasisapi/GroupZip?groupid=RTPD_LMP_GRP&startdatetime=20130919T07:00-0000&enddate=20130919T08:00-0000&version=1</p> <p>OR</p> <p>http://oasis.caiso.com/oasisapi/GroupZip?groupid=RTPD_LMP_GRP&startdatetime=20130919T07:00-0000&enddate=20130919T08:00-0000&version=3</p> <p>Note: Version 3 response zip file will include separate file for each price component</p> |
| RTPD_SPTIE_LMP_GRP | <p>http://oasis.caiso.com/oasisapi/GroupZip?groupid=RTPD_SPTIE_LMP_GRP&startdatetime=20130919T07:00-0000&enddate=20130919T08:00-0000&version=3</p> <p>OR</p> <p>http://oasis.caiso.com/oasisapi/GroupZip?groupid=RTPD_SPTIE_LMP_GRP&startdatetime=20160919T07:00-0000&enddate=20160919T08:00-0000&version=4</p> <p>OR</p> <p>http://oasis.caiso.com/oasisapi/GroupZip?groupid=RTPD_SPTIE_LMP_GRP&startdatetime=20160919T07:00-0000&enddate=20160919T08:00-0000&version=5</p> <p>Note: Version 5 response zip file will include separate file for each price component</p> |
| RTM_LMP_GRP | <p>http://oasis.caiso.com/oasisapi/GroupZip?groupid=RTM_LMP_GRP&startdatetime=20130919T07:00-0000&enddate=20130919T08:00-0000&version=1</p> <p>OR</p> <p>http://oasis.caiso.com/oasisapi/GroupZip?groupid=RTM_LMP_GRP&startdatetime=20130919T07:00-0000&enddate=20130919T08:00-0000&version=3</p> <p>Note: Version 3 response zip file will include separate file for each price component</p> |
| RTD_SPTIE_LMP_GRP | <p>http://oasis.caiso.com/oasisapi/GroupZip?groupid=RTD_SPTIE_LMP_GRP&startdatetime=20130919T07:00-0000&enddate=20130919T08:00-0000&version=3</p> <p>OR</p> <p>http://oasis.caiso.com/oasisapi/GroupZip?groupid=RTD_SPTIE_LMP_GRP&startdatetime=20160919T07:00-0000&enddate=20160919T08:00-0000&version=4</p> <p>OR</p> <p>http://oasis.caiso.com/oasisapi/GroupZip?groupid=RTD_SPTIE_LMP_GRP&startdatetime=20160919T07:00-0000&enddate=20160919T08:00-0000&version=5</p> <p>Note: Version 5 response zip file will include separate file for each price component</p> |
| DAM_PRC_AS_GRP | <p>http://oasis.caiso.com/oasisapi/GroupZip?groupid=DAM_PRC_AS_GRP&startdatetime=20130919T07:00-0000&version=1</p> |



| Group ID | Example URL for XML Download |
|--------------------|--|
| HASP_PRC_AS_GRP | http://oasis.caiso.com/oasisapi/GroupZip?groupid=HASP_PRC_AS_GRP&startdatetime=20130919T07:00-0000&version=1 |
| RTM_PRC_AS_GRP | http://oasis.caiso.com/oasisapi/GroupZip?groupid=RTM_PRC_AS_GRP&startdatetime=20130919T07:00-0000&version=1 |
| DAM_TRNS_GRP | http://oasis.caiso.com/oasisapi/GroupZip?groupid=DAM_TRNS_GRP&startdatetime=20130919T07:00-0000&version=1 |
| HASP_TRNS_GRP | http://oasis.caiso.com/oasisapi/GroupZip?groupid=HASP_TRNS_GRP&startdatetime=20130919T07:00-0000&version=1 |
| RTPD_TRNS_GRP | http://oasis.caiso.com/oasisapi/GroupZip?groupid=RTPD_TRNS_GRP&startdatetime=20130919T07:00-0000&version=1 |
| DAM1_GRP | http://oasis.caiso.com/oasisapi/GroupZip?groupid=DAM1_GRP&startdatetime=20130919T07:00-0000&version=1 |
| RTM1_GRP | http://oasis.caiso.com/oasisapi/GroupZip?groupid=RTM1_GRP&startdatetime=20130919T07:00-0000&version=1 |
| RTPD_FCST_GRP | http://oasis.caiso.com/oasisapi/GroupZip?groupid=RTPD_FCST_GRP&startdatetime=20130919T07:00-0000&version=1 |
| HASP1_GRP | http://oasis.caiso.com/oasisapi/GroupZip?groupid=HASP1_GRP&startdatetime=20130919T07:00-0000&version=1 |
| POST1_GRP | http://oasis.caiso.com/oasisapi/GroupZip?groupid=POST1_GRP&startdatetime=20130919T07:00-0000&version=1 |
| DAM_AS_GRP | http://oasis.caiso.com/oasisapi/GroupZip?groupid=DAM_AS_GRP&startdatetime=20130919T07:00-0000&version=1 |
| HASP_AS_GRP | http://oasis.caiso.com/oasisapi/GroupZip?groupid=HASP_AS_GRP&startdatetime=20130919T07:00-0000&version=1 |
| RTM_AS_GRP | http://oasis.caiso.com/oasisapi/GroupZip?groupid=RTM_AS_GRP&startdatetime=20130919T07:00-0000&version=1 |
| PUB_DAM_GRP | http://oasis.caiso.com/oasisapi/GroupZip?groupid=PUB_DAM_GRP&startdatetime=20130919T07:00-0000&version=1 |
| PUB_RTM_GRP | http://oasis.caiso.com/oasisapi/GroupZip?groupid=PUB_RTM_GRP&startdatetime=20130919T07:00-0000&version=1 |
| CURR_LMP_GRP | http://oasis.caiso.com/oasisapi/GroupZip?groupid=CURR_LMP_GRP&startdatetime=20130919T07:00-0000&version=1 |
| DAM_SD_PRC_GRP | http://oasis.caiso.com/oasisapi/GroupZip?groupid=DAM_SD_PRC_GRP&startdatetime=20130919T07:00-0000&version=1 |
| HASP_SD_PRC_GRP | http://oasis.caiso.com/oasisapi/GroupZip?groupid=HASP_SD_PRC_GRP&startdatetime=20130919T07:00-0000&version=1 |
| RTM_SD_PRC_GRP | http://oasis.caiso.com/oasisapi/GroupZip?groupid=RTM_SD_PRC_GRP&startdatetime=20130919T07:00-0000&version=1 |
| PUB_CB_DAM_GRP | http://oasis.caiso.com/oasisapi/GroupZip?groupid=PUB_CB_DAM_GRP&startdatetime=20130919T07:00-0000&version=1 |
| CB_REF_PRC_GRP | http://oasis.caiso.com/oasisapi/GroupZip?groupid=CB_REF_PRC_GRP&startdatetime=20130919T07:00-0000&version=1 http://oasis.caiso.com/oasisapi/GroupZip?groupid=CB_REF_PRC_GRP&startdatetime=20130919T07:00-0000&version=3 |
| CB_CLR_DAM_GRP | http://oasis.caiso.com/oasisapi/GroupZip?groupid=CB_CLR_DAM_GRP&startdatetime=20130919T07:00-0000&version=1 |
| CB_NODAL_LMT_GRP | http://oasis.caiso.com/oasisapi/GroupZip?groupid=CB_NODAL_LMT_GRP&resultformat=5&startdatetime=20130919T07:00-0000&version=1 |
| DAM_FLEX_RAMP_GRP | http://oasis.caiso.com/oasisapi/GroupZip?groupid=DAM_FLEX_RAMP_GRP&startdatetime=20130919T07:00-0000&version=1 |
| RTPD_FLEX_RAMP_GRP | http://oasis.caiso.com/oasisapi/GroupZip?groupid=RTPD_FLEX_RAMP_GRP&startdatetime=20130919T07:00-0000&version=1 |
| RTD_FLEX_RAMP_GRP | http://oasis.caiso.com/oasisapi/GroupZip?groupid=RTD_FLEX_RAMP_GRP&startdatetime=20130919T07:00-0000&version=1 |



| Group ID | Example URL for XML Download |
|------------------------------------|---|
| DAM_MPM_LMP_GRP | http://oasis.caiso.com/oasisapi/GroupZip?groupid=DAM_MPM_LMP_GRP&startdatetime=20130919T07:00-0000&version=1 |
| HASP_MPM_LMP_GRP | http://oasis.caiso.com/oasisapi/GroupZip?groupid=HASP_MPM_LMP_GRP&startdatetime=20130919T07:00-0000&enddate=20130919T08:00-0000&version=1 |
| RTPD_MPM_LMP_GRP | http://oasis.caiso.com/oasisapi/GroupZip?groupid=RTPD_MPM_LMP_GRP&startdatetime=20130919T07:00-0000&enddate=20130919T08:00-0000&version=1 |
| DAM_MPM_SD_PRC_GRP | http://oasis.caiso.com/oasisapi/GroupZip?groupid=DAM_MPM_SD_PRC_GRP&startdatetime=20130919T07:00-0000&version=1 |
| HASP_MPM_SD_PRC_GRP | http://oasis.caiso.com/oasisapi/GroupZip?groupid=HASP_MPM_SD_PRC_GRP&startdatetime=20130919T07:00-0000&version=1 |
| RTPD_MPM_SD_PRC_GRP | http://oasis.caiso.com/oasisapi/GroupZip?groupid=RTPD_MPM_SD_PRC_GRP&startdatetime=20130919T07:00-0000&version=1 |
| PUB_CRR_BID_SEASONAL_GRP | http://oasis.caiso.com/oasisapi/GroupZip?groupid=PUB_CRR_BID_SEASONAL_GRP&startdatetime=20130919T07:00-0000&version=1 |
| PUB_CRR_BID_MTHLY_GRP | http://oasis.caiso.com/oasisapi/GroupZip?groupid=PUB_CRR_BID_MTHLY_GRP&startdatetime=20130919T07:00-0000&version=1 |
| AGGR_OUTAGE_SCH_GRP | http://oasis.caiso.com/oasisapi/GroupZip?groupid=AGGR_OUTAGE_SCH_GRP&startdatetime=20130919T07:00-0000&version=1 |
| PUB_CSP_OFFER_SET_ANNUAL_GRP | http://oasis.caiso.com/oasisapi/GroupZip?groupid=PUB_CSP_OFFER_SET_ANNUAL_GRP&startdatetime=20170101T08:00-0000&version=1 |
| PUB_CSP_OFFER_SET_MONTHLY_GRP | http://oasis.caiso.com/oasisapi/GroupZip?groupid=PUB_CSP_OFFER_SET_MONTHLY_GRP&startdatetime=20170102T08:00-0000&version=1 |
| PUB_CSP_OFFER_SET_INTRAMONTHLY_GRP | http://oasis.caiso.com/oasisapi/GroupZip?groupid=PUB_CSP_OFFER_SET_INTRAMONTHLY_GRP&startdatetime=20170110T08:00-0000&version=1 |
| RTM_LAP_GRP | http://oasis.caiso.com/oasisapi/GroupZip?groupid=RTM_LAP_GRP&startdatetime=20171019T07:00-0000&version=6 |



9. Versioning and Namespace domain reference

With the GMT release, the namespace domain is changing from the environment specific URL to use www.caiso.com/soa/*.xsd. So for the January 2015 release, the namespaces for the various reports are:

| Namespace | Major Version | Minor Version |
|---|---------------|---------------|
| http://www.caiso.com/soa/OASISBid_v1.xsd | 1 | 20131201 |
| http://www.caiso.com/soa/OASISCBBid_v1.xsd | 1 | 20131201 |
| http://www.caiso.com/soa/OASISCRRPublicBid_v1.xsd | 1 | 20131201 |
| http://www.caiso.com/soa/OASISMaster_v1.xsd | 1 | 20131201 |
| http://www.caiso.com/soa/OASISReport_v1.xsd | 1 | 20140401 |
| http://www.caiso.com/soa/OASISReport_v2.xsd | 2 | 20141001 |
| http://www.caiso.com/soa/OASISReport_v3.xsd | 3 | 20150101 |
| http://www.caiso.com/soa/OASISReport_v4.xsd | 4 | 20161001 |
| http://www.caiso.com/soa/OASISMaster_v2.xsd | 2 | 20161001 |
| http://www.caiso.com/soa/OASISReport_v5.xsd | 5 | 20161201 |
| http://www.caiso.com/soa/OASISReport_v6.xsd | 6 | 20171001 |
| http://www.caiso.com/soa/OASISMaster_v3.xsd | 3 | 20161201 |
| http://www.caiso.com/soa/OASISCSPOfferSet_v1.xsd | 1 | 20171001 |
| http://www.caiso.com/soa/OASISMaster_v4.xsd | 4 | 20171001 |



10. Schema Files Changes

This section contains the summary of the schema changes with release reference

| Schema File Name | Change Description | | | |
|---|--|-------------------------------|---------------------------|---|
| OASISReport_v4.xsd | 1. Fall 2016 release changes. | | | |
| OASISReport_v1.xsd | No changes | | | |
| OASISReport_v2.xsd | No changes | | | |
| OASISReport_v3.xsd | No changes | | | |
| OASISBid_v1.xsd | No changes | | | |
| OASISBid_v2.xsd | Fall 2016 Change | | | |
| OASISCBBid_v1.xsd | No changes | | | |
| OASISCBBid_v2.xsd | No changes | | | |
| OASISMaster_v1.xsd | No changes | | | |
| OASISCRRPublicBid_v1.xsd | No changes | | | |
| OASISReport_v5.xsd | Added new reports for Data Release Reports Projects <table border="1" data-bbox="592 982 1266 1129"> <tr> <td>1. EIM Transfer Limits By Tie</td> </tr> <tr> <td>2. Wind and Solar Summary</td> </tr> <tr> <td>3. MPM Default Competitive Path Assessment List</td> </tr> </table> | 1. EIM Transfer Limits By Tie | 2. Wind and Solar Summary | 3. MPM Default Competitive Path Assessment List |
| 1. EIM Transfer Limits By Tie | | | | |
| 2. Wind and Solar Summary | | | | |
| 3. MPM Default Competitive Path Assessment List | | | | |
| OASISMaster_v3.xsd | Added New API's for Atlas Reports <ol style="list-style-type: none"> 1. Price Correction Messages 2. Scheduling Point Definition 3. BAA and Tie Definition 4. Scheduling Point and Tie Definition 5. Intertie Constraint and Scheduling Point Mapping 6. Intertie Scheduling Limit and Tie Mapping | | | |
| OASISMaster_v4.xsd | Added New API for Atlas Report <ol style="list-style-type: none"> 1. Master Control Area Generating Capability List | | | |
| OASISCSPOfferSet_v1.xsd | New XSD file added to support CSP Offer Set data as part of Fall 2017 Release. | | | |
| OASISReport_v6.xsd | Fall-2017 Release - Added two new API services. | | | |

11. Long day and short day request examples

Here are the example URL's for long day and short day with the GMT version of the OASIS API services:

Short day



http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_CB_CLR_AWARDS&startdatetime=20130310T08:00-0000&enddate=20130311T07:00-0000&version=1

HE03 is skipped

Long day

http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_CB_CLR_AWARDS&startdatetime=20131103T07:00-0000&enddate=20131104T08:00-0000&version=1

HE 25 is the repeating hour