

# **Interface Specification for OASIS**

2019 Independent Release

Version: 5.1.8 2/15/2019



## **Revision History**

D-1-	\/ - ·· - ·	December Com		
Date	Versi on	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 <a href="http://www.caiso.com/Documents/InterfaceSpecifications-OASISv3_12_0.pdf">http://www.caiso.com/Documents/InterfaceSpecifications-OASISv3_12_0.pdf</a>		
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,		
Jan 22, 2014	4.1.1	RTPD_MPM_SD_PRC_GRP, DAM_MPM_LMP_GRP  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 <sup>th</sup> , 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:  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		
		<ul> <li>Updated reports:</li> <li>PRC_FLEX_RAMP_CURR and PRC_FLEX_RAMP for new baa_grp_id attribute</li> <li>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)</li> <li>PRC_INTVL_LMP,PRC_CURR_LMP,PRC_HASP_LMP, PRC_RTPD_LMP, PRC_MPM_RTM_LMP to include GHG LMP component in the output</li> </ul>		

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		<ul> <li>ENE_EA updated for two new energy types for Base Schedule and EIM manual dispatch.</li> </ul>			
		ENE_MPM for new baa_id attribute			
		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> <li>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</li> <li>Updated the URLs to add enddatetime element to the following reports</li> <li>PRC_FLEX_RAMP</li> <li>Added sample URLs for market_run_id =ALL for the following reports         ENE_EIM_TRANSFER_LIMITS         ENE_EIM_TRANSFER         ENE_EIM_DYN_NSI</li> <li>Removed non-existent report PRC_FLEX_RAMP_CURR from the document.</li> </ul>			
Dec 04, 2014	422	Add now reports for the January 2015 releases			
Dec 04, 2014	4.2.3	Add new reports for the January 2015 release:  Major version=3; Minor version=20150101			
		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)			
		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			
Dec 19, 2014	4.2.4	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	Updated CB Public Bids to add new Flowgate field (PUB_CB_BID)			
		<ul> <li>Update CB Reference Prices to add new TIE_NAME field (PRC_DS_REF)</li> </ul>			
		Add new report ATL_CBNODE			
Mar 12, 2015	4.2.6	<ul> <li>Updated occurrences of "Spring 2015" to "Independent 2015" release in the document</li> </ul>			
Mar 30, 2015	4.2.7	Corrected the PRC_DS_REF sample single zip URLs			
		<ul> <li>Updated Section 11 Long/Short Day section to add notes about HE25 and HE03</li> </ul>			
Apr 7,2016	4.3.0	Fall 2016 Release changes			
		New services			
		<ul> <li>service PRC_RTM_SCH_CNSTR (Scheduling Constraint Shadow Prices)</li> </ul>			
		<ul> <li>service SLD_ADV_FCST (Advisory CAISO Demand Forecast)</li> </ul>			
		<ul> <li>service ENE_HRLY_BASE_NSI (EIM BAA Hourly Base NSI)</li> </ul>			
		<ul> <li>service ENE_UNCERTAINTY_MV (Uncertainty Movement by Category)</li> </ul>			
		<ul> <li>service ENE_FLEX_RAMP_REQT (Flexible Ramp Requirements)</li> </ul>			
		<ul> <li>service ENE_AGGR_FLEX_RAMP (Flex Ramp Aggr Awards)</li> </ul>			
		<ul> <li>service ENE_FLEX_RAMP_DC (Flex Ramp Surplus Demand Curves)</li> </ul>			
		Update to existing services			
		<ul> <li>Updated PRC_SPTIE_LMP service to include LMP_ENE_PRC, LMP_LOSS_PRC AND LMP_GHG_PRC elements</li> </ul>			
		<ul> <li>Updated PRC_CD_SPTIE_LMP service to include LMP_ENE_PRC, LMP_LOSS_PRC AND LMP_GHG_PRC elements</li> </ul>			
		<ul> <li>Updated PRC_MPM_RTM_LMP service to extend the support for RTD LMPM</li> </ul>			
		<ul> <li>Updated PRC_MPM_ RTM_NOMOGRAM to extend the support for RTD LMPM</li> </ul>			
		<ul> <li>Updated PRC_MPM_RTM_NOMOGRAM_CMP to extend the support for RTD LMPM</li> </ul>			
		<ul> <li>Updated PRC_MPM_RTM_FLOWGATE to extend the support for RTD LMPM</li> </ul>			
		<ul> <li>Updated PRC_MPM_CNSTR_CMP to extend the support for RTD LMPM</li> </ul>			
		<ul> <li>Updated PRC_MPM_RTM_REF_BUS to extend the support for RTD LMPM</li> </ul>			
		Updated PUB_BID to include GHG market product			
		Other document corrections			

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		• 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	Fall 2016 Release additional changes
		<ul> <li>Added new SLD_SF_EVAL_DMD_FCST report under System Demand section</li> </ul>
		<ul> <li>Added new ENE_EIM_TRANSFER_TIE report under Energy section</li> </ul>
		Added 'RAMP_TYPE' element for the ENE_AGGR_FLEX_RAMP report
		Updated the SLD_ADV_FCST report description
Aug 19, 2016	4.3.2	Fall 2016 Release additional changes
		Added new ENE_HRLY_BASE_LOSS report under Energy section
Dec 2, 2016	4.3.3	Independent 2016 release
		Introduced API services for below reports:
		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
		<ul> <li>Intertie Scheduling Limit and Tie Mapping – ATL_ISL_TIE</li> </ul>
		<ul> <li>Wind And Solar Summary – ENE_WIND_SOLAR_SUMMARY</li> </ul>
		<ul> <li>EIM Transfer Limits By Tie –</li> <li>ENE_EIM_TRANSFER_LIMITS_TIE</li> </ul>
		MPM Default Competitive Path Assesment List –     PRC_MPM_DEFAULT_CMP
		Updates to LMP Price API's (split into individual price component files)
		PRC_INTVL_LMP
		PRC_RTPD_LMP
		PRC_HASP_LMP
		PRC_SPTIE_LMP (Group Names:     RTD_SPTIE_LMP_GRP,RTPD_SPTIE_LMP_GRP)
		Updates to TRNS_CURR_USAGE API (limit to current and future trade days only)
Jan 20,2016	4.3.4	Updated the following MPM Services ( Spring 2017)



		Updated PRC_MPM_RTM_LMP service to remove the support for RTD LMPM
		<ul> <li>Updated PRC_MPM_ RTM_NOMOGRAM to remove the support for RTD LMPM</li> </ul>
		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
Feb 10, 2017	4.3.5	Updated the following MPM Services ( Spring 2017)
		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.
		Added example API URLs for the following Services
		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
Mar 31, 2017	5.0.0	Fall 2017 Release
		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
		Pre Fall - 2017 Release document clean up
		Corrected ENE_MPM API sample URL to fix the incorrect version



		Corrected typo in PRC_MPM_DEFAULT_CMP service data element COMPETITIVE_FLAG
Apr 28, 2017	5.1.0	<ul> <li>Fall 2017 Release</li> <li>Added new service for Control Area Generating Capability List</li> <li>Updated CSP_OFFER_SET Service <ul> <li>Service name changed from CSP_OFFER_SET to PUB_CSP_OFFER_SET</li> <li>Removed SCHEDULINGCOORDINATOR element</li> <li>Added notes to provide additional details</li> <li>CSP_OFFER_SET API sample URLs are updated.</li> </ul> </li> <li>Updated ENE_FLEX_RAMP_INPUT Service <ul> <li>Service name changed from ENE_FLEX_RAMP_INPUT to ENE_EIM_FLEX_RAMP_INPUT</li> <li>ENE_FLEX_RAMP_INPUT API sample URLs are updated.</li> </ul> </li> </ul>
Jun 22, 2017	5.1.1	Fall 2017 Release  • Control Area Generating Capability List -Renamed element GENERATING_UNIT_NAME to GEN_UNIT_NAME  Updated ENE_FLEX_RAMP_INPUT Service • 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	Updated Hourly Real-Time LAP service  Corrected group zip file name under Group Report Definitions section.  Corrected energy type code from SMEC to MCE

		Updated Versioning and Namespace domain reference section
		Added OASISMaster_v4.xsd
Jan 31, 2018 5.1.3		Updated ENE_FLEX_RAMP_INPUT Service
		Added DATA_ITEM element
		Removed MKT_TYPE element
June 25, 2018	5.1.4	Fall 2018 Release
		<ul> <li>Updated CRR Public Bid service to add transaction type.</li> </ul>
		Added new service for BAA Market Events
September 6, 2018	5.1.5	Fall 2018 Release – Revision 1
		Updated CRR Public Bid service to add Hedge_type
		<ul> <li>Updated ENE_BAA_MKT_EVENTS single report sample url string</li> </ul>
		Added a new service for CRR Aggregated Revenue Adjustment
December 18, 2018	5.1.6	2019 Independent Release – FERC 844
		Added new service for Resource-Specific Uplift (ENE_RES_UPL)
		Added new service for Zonal Uplift (ENE_ZNL_UPL)
		<ul> <li>Added new service for Operator-Initiated Commitment (ENE_OIC)</li> </ul>
		<ul> <li>Added new service Day-Ahead Schedule Constraint Prices (PRC_DAM_SCH_CNSTR)</li> </ul>
		Added notes under Transmission section regarding Transmission Interface ID
February 14, 2019	5.1.7	2019 Independent Release
		Added enddatetime to PRC_DAM_SCH_CNSTR
February 15, 2019	5.1.8	2019 Independent Release (target March 2019 / EIM Resource Sufficiency Enhancements Project)
		<ul> <li>Updated ENE_EIM_TRANSFER_LIMITS report description to add limit type = IMPORT or EXPORT</li> </ul>
		Other
		Updated PRC_DAM_SCH_CNSTR & PRC_RTM_SCH_CNSTR





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#### 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.

#### 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 2018 release, **OASISCRRPublicBid.xsd** will be moving to version v2.

For CRR1B, **OASISReport.xsd will be** moving to version v7.

For 2019 Independent Release, OASISReport.xsd will be moving to version v8.

XSD	Category	Description
OASISReport_v8.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_v2.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		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
- CRR\_AGG\_REV\_ADJENE\_CB\_AWARDS
- ENE\_CB\_CLR\_AWARDS
- ENE\_CB\_MKT\_SUM
- ENE DISP
- ENE\_EA
- ENE LOSS
- ENE\_MPM
- ENE\_SLRS



- ENE\_OIC
- ENE\_RES\_UPL
- ENE\_ZNL\_UPL
- 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			
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.	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;
Oasis will include separate XML file for each price component within the same zip file. This is existing functionality.			
Scheduling Point Tie Combination Locational Marginal Prices (LMP) Scheduling Point Tie Combination Locational		LMP_CONG_PRC LMP_PRC	LMP - Congestion Component; LMP for each node tie combination;
Marginal Prices for market DAM, RTPD/FMM, and RTD in \$/MWh.			,
		LMP_ENE_PRC	LMP - Energy Component;
Oasis will include separate XML file for each price component within the same zip file. This is current behavior for DAM. This behavior will		LMP_LOSS_PRC	LMP - Losses Component
be extended for other realtime markets in version 5.		LMP_GHG_PRC	LMP – GHG Component
HASP Locational Marginal Prices (LMP)		LMP_CONG_PRC	LMP - Congestion Component;
		LMP_ENE_PRC	LMP - Energy Component;

Day and /Day of /Cat	VAGI. Nome	VMI Data Hama	Description
Report/ResultSet	XML Name	XML Data Items  LMP_LOSS_PRC	Description
Posts hourly, the 4 15-minute Locational Marginal Prices in \$/MWh, for the HASP hour. Posts the LMP, plus the Congestion, Loss and		LMP_PRC	LMP - Losses Component; LMP for each Pnode and APnode
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		LMP_GHG_PRC	GHG price for EIM pnode and apnode
PNodes and APnodes relevant to the Non-Hourly Pre-Dispatch Resources.			
For HASP, SC's should always utilize the CMRI posted price as the valid price for shadow-settlement purposes.			
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.			
RTPD Locational Marginal Prices (LMP)	PRC_RTPD_LMP	LMP_CONG_PRC	LMP - Congestion
15-minute Locational Marginal Prices for all PNodes and APNodes in \$/MWh.		LMP_ENE_PRC LMP_LOSS_PRC LMP_PRC	Component; LMP - Energy Component; LMP - Losses Component; LMP for each Pnode and
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.		LMP_GHG_PRC	APnode GHG price for EIM pnode and apnode
Interval Locational Marginal Prices (LMP)	PRC_INTVL_LMP	LMP_CONG_PRC LMP_ENE_PRC	LMP - Congestion Component;
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.		LMP_LOSS_PRC LMP_PRC  LMP_GHG_PRC	LMP - Energy Component; LMP - Losses Component; LMP for each Pnode and APnode; GHG price for EIM pnode
Node on the report will include Pnodes and APnodes in ISO, EIM and non-EIM external networks		LWI _OFIG_F NO	and apnode
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.			
AS Clearing Prices	PRC_AS	NS_CLR_PRC	NonSpin Cleared Price;
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.		RD_CLR_PRC RU_CLR_PRC SP_CLR_PRC	Regulation Down Cleared Price; Regulation Up Cleared Price; Spin Cleared Price;
The AS Clearing Prices Data is downloadable to XML and CSV only for a single day at a time.		RMD_CLR_PRC	Regulation Mileage Down Cleared Price.
		RMU_CLR_PRC	Regulation Mileage Up Cleared Price
Interval AS Clearing Prices	PRC_INTVL_AS	NS_CLR_PRC RD_CLR_PRC	NonSpin Cleared Price; RegulationDown Cleared Price;
	1	RU_CLR_PRC	RegulationUp Cleared Price;



Report/ResultSet	XML Name	XML Data Items	Description
Ancillary Services Regional Shadow Prices for		SP_CLR_PRC	Spin Cleared Price;
all Ancillary Service types at each AS Region and Sub-Regional Partition. Posts in \$/MW. Posts 15-Minute price relevant to the next 15		RMD_CLR_PRC	Regulation Mileage Down Cleared Price.
minute binding interval for RTM on a fifteen minute basis.		RMU_CLR_PRC	Regulation Mileage Up Cleared Price.
Intertie Constraint Shadow Prices	PRC_CNSTR	SHADOW_PRC	Shadow price by Transmission Interface and
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.			Intertie Constraint  Will indicate either "Base
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.		REASON	Case" or specific Contingency ID.
Transmission ID includes both ISO and EIM ITC ID			
Fuel Prices	PRC_FUEL	FUEL_PRC	Daily Gas Price.
For each Gas Flow Day, lists the gas price in \$/mmBtu by fuel region.	_	_	,
Current Locational Marginal Price	PRC_CURR_LMP	LMP_CONG_PRC	LMP - Congestion
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.		LMP_ENE_PRC LMP_LOSS_PRC LMP_PRC LMP_GHG_PRC	Component; LMP - Energy Component; LMP - Losses Component; LMP for each Pnode and APnode; GHG price for EIM pnode and apnode
Node on the report will include Pnodes and APnodes in ISO, EIM and non-EIM external networks			
Nomogram/Branch Shadow Prices	PRC_NOMOGRAM	SHADOW_PRC	Shadow price by Nomogram or Branch.
Posts the hourly constraint pricing at each Nomogram and Branch, for each Market			or branch.
Process (DAM, HASP) in \$/MWh, and the 15- Minute Shadow Price in \$/MWh for the RTPD in 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.		<m:reason></m:reason>	Will indicate either "Base Case" or specific Contingency ID.
Interval Nomogram/Branch Shadow Prices	PRC_RTM_NOMOG	SHADOW_PRC	Shadow price by Nomogram
Posts the 5 minute constraint pricing at each Nomogram and Branch, for each Market	RAM		or Branch.
Process (RTM) in \$/MWh.		<m:reason></m:reason>	Will indicate either "Bees
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.		KIII.KEAƏUN>	Will indicate either "Base Case" or specific Contingency ID.

Report/ResultSet	XML Name	XML Data Items	Description
Interval Intertie Constraint Shadow Prices Posts the 5 minute constraint pricing at Transmission Interfaces and Intertie Constraints in \$/MWh	PRC_RTM_FLOWG ATE	SHADOW_PRC	Shadow price by Transmission Interface and Intertie Constraint
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.		REASON	Will indicate either "Base Case" or specific Contingency ID.
Scheduling Constraint Shadow Prices	PRC_DAM_SCH_C NSTR	SHADOW_PRC	Shadow price by Scheduling Constraint
Posts Day-Ahead hourly scheduling constraint shadow prices in \$/MWh	NSTR		Constraint
		CNSTR_TYPE	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
Scheduling Constraint Shadow Prices Posts the 15 minute and 5 minute scheduling constraint shadow prices in \$/MWh	PRC_RTM_SCH_C NSTR	SHADOW_PRC	Shadow price by Scheduling Constraint
		CNSTR_TYPE	Some of the possible values are
			BAA TRANSFER UPPER LIMIT
			ETSR UPPER LIMIT
			ETSR LOWER LIMIT

Report/ResultSet	XML Name	XML Data Items	Description
			BAA TRANSFER LOWER
			BAA TRANSFER UPPER LIMIT
			BAA TRANSFER DISTRIBUTION
			BAA POWER BALANCE
			BAA TRANSFER LOWER LIMIT
			ETSR TRANSMISSION COST
Reference Prices	PRC_DS_REF	SPLY_PRC	Supply Component
Quarterly Reference prices associated with each node based on historical data, posted for Convergence Bidding purposes.		DMD_PRC	Demand Component
Nodal Group Constraints		SHADOW_PRC	Shadow price by Nodal
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	CNSTR_PRC	CLEARED_MW MAXIMUM_LIMIT MINIMUM_LIMIT	Constraint Group Cleared Price Maximum Limit of the Price Minimum Limit of the Price
Constraint is displayed. This report is triggered with the publication of the Day-Ahead results.			
System Ramping Nomogram Results	PRC_FLEX_RAMP	MKT_RUN_START_TIME	Indicates the start time of the market run in pacific Time format
		MKT_TYPE	An identifier which specifies the market run type (DAM.RTPD& RTD)
		RAMP_UP_CAP_REQ	Upward raming capacity nomogram results
		RAMP_UP_SHADOW_PRC	Shadow price of the upward ramping nomogram results
		RAMP_DOWN_CAP_REQ	Downward ramping capacity nomogram results.
		RAMP_DOWN_SHADOW_P RC	Shadow price of the downward nomogram results.
		BAA_GRP_ID	EIM Area group ids (ISO, PACE, PACW, ISO_PACW, ISO_PACE, PACE_PACW,ISO_PACW_ PACE)

Report/ResultSet	XML Name	XML Data Items	Description
Contingency Dispatch Locational Marginal Prices	PRC_CD_INTVL_L MP	LMP_CONG_PRC	LMP Marginal Cost of Congestion for ten-minute Contingency Dispatch.
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-		LMP_ENE_PRC	LMP Marginal Cost of Energy for ten-minute Contingency Dispatch.
minute interval RTCD.		LMP_LOSS_PRC	LMP Marginal Cost of Losses for ten-minute Contingency Dispatch.
Contingency Dispatch Scheduling Point Tie		LMP_CONG_PRC	LMP - Congestion
Combination Locational Marginal Prices  This is for Real Time Contingency Dispatch		LMP_PRC	Component; LMP for each node tie combination;
(RTCD) runs. Posts the ten-minute Locational Marginal Prices for node tie in \$/MWh, for each ten-minute interval RTCD.		LMP_ENE_PRC	LMP - Energy Component;
		LMP_LOSS_PRC	LMP - Losses Component
		LMP_GHG_PRIC	LMP – GHG Component
Contingency Dispatch Intertie Constraint Shadow Prices	PRC_CD_RTM_FL OWGATE	SHADOW_PRC	Shadow price by Transmission Interface and Intertie Constraint for ten- minute Contingency
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			Dispatch.
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.		REASON	Will indicate either "Base Case" or specific Contingency ID.
Contingency.			
Contingency Dispatch Nomogram/Branch Shadow Prices	PRC_CD_RTM_NO MOGRAM	SHADOW_PRC	Shadow price by Nomogram or Branch for ten-minute Contingency Dispatch.

Report/ResultSet	XML Name	XML Data Items	Description
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,		REASON	Will indicate either "Base Case" or specific Contingency ID.
the identity of the specific Contingency.			
MPM DA Locational Marginal Prices (LMP):  Hourly Locational Marginal Prices from the	PRC_MPM_LMP	LMP_PRC LMP_CONG_CC_PRC	LMP for each nodes  LMP - Competitive  Congestion Component
Day-Ahead MPM run for all PNodes and APNodes in \$/MWh. Posts the LMP, plus the Competitive Congestion, Non-Competitive		LMP_CONG_NC_PRC	LMP- Non-Competitive Congestion Component
Congestion, Loss and Energy Components that make up the LMP.		LMP_ENE_PRC	LMP - Energy Component
		LMP_LOSS_PRC	LMP - Losses Component
MPM RT Locational Marginal Prices (LMP):	PRC_MPM_RTM_L	LMP_PRC	LMP for each nodes
Posts hourly, the 4 15-minute Locational	MP	LMP_CONG_CC_PRC	LMP - Competitive Congestion Component
Marginal Prices from the HASP MPM run for all PNodes and APNodes in \$/MWh. OR		LMP_CONG_NC_PRC	LMP- Non-Competitive Congestion Component
Posts every 15 minutes, the 15-minute Locational Marginal Prices from the RTPD MPM run for all PNodes and APNodes in		LMP_ENE_PRC	LMP - Energy Component
\$/MWh.		LMP_LOSS_PRC	LMP - Losses Component
Posts the LMP, plus the Competitive Congestion, Non-Competitive Congestion,		LMP_GHG_PRC	LMP - GHG Component
Loss and Energy Components that make up the LMP.			
MPM Nomogram/Branch Shadow Prices (DAM):	PRC_MPM_ NOMOGRAM	SHADOW_PRC	Shadow price by Nomogram or Branch.
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.		<m:reason></m:reason>	Will indicate either "Base Case" or specific Contingency ID.
MPM Nomogram/Branch Shadow Prices (RTM):	PRC_MPM_ RTM_NOMOGRAM	SHADOW_PRC	Shadow price by Nomogram or Branch.
Posts hourly, 4 15-minute interval constraint pricing at each binding Nomogram and Branch, for HASP MPM run in \$/MWh		55.000	
OR		<m:reason></m:reason>	

Report/ResultSet	XML Name	XML Data Items	Description
Posts every 15 minutes, 15-minute interval constraint pricing at each binding Nomogram and Branch, for RTPD MPM run in \$/MWh.			Will indicate either "Base Case" or specific Contingency ID.
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.			
MPM Nomogram/Branch Competitive Paths (DAM):	PRC_MPM_ NOMOGRAM_CMP	MPM_CMP_STATUS_FLG	Competitive Path indicator (Y/N)
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			
MPM Nomogram/Branch Competitive Paths (RTM):	PRC_MPM_RTM_N OMOGRAM_CMP	MPM_CMP_STATUS_FLG	Competitive Path indicator (Y/N)
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.  OR  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.			
OR			
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.			
MPM Intertie Constraint Shadow Prices (DAM):	PRC_MPM_CNSTR	SHADOW_PRC	Shadow price by Transmission Interface and Intertie Constraint
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.		I REASON	Will indicate either "Base Case" or specific Contingency ID.
MPM Intertie Constraint Shadow Prices (RTM):	PRC_MPM_RTM_F LOWGATE	SHADOW_PRC	Shadow price by Transmission Interface and Intertie Constraint



XML Name	XML Data Items	Description
		Will indicate either "Base
	REASON	Case" or specific Contingency ID.
PRC_MPM_CNSTR _CMP	MPM_CMP_STATUS_FLG	Competitive Path indicator (Y/N)
		)
PRC_MPM_ REF_BUS	REFERENCE_BUS_ID	Reference Bus Name
PRC_MPM_RTM_R EF_BUS	REFERENCE_BUS_ID	Reference Bus Name
	PRC_MPM_CNSTR _CMP  PRC_MPM_ REF_BUS	PRC_MPM_CNSTR MPM_CMP_STATUS_FLG _CMP  PRC_MPM_ REF_BUS  REFERENCE_BUS_ID  PRC_MPM_RTM_R REFERENCE_BUS_ID

Report/ResultSet	XML Name	XML Data Items	Description
	AME Hamo	Am Data Romo	Docomption
Note, the IFM, RUC, and regular HASP runs use a distributed reference bus.			
Greenhouse Gas Allowance Price	PRC_GHG_ALLOW ANCE	OPR_DATE	The operating date.
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			Greenhouse gas allowance
		GHG_ALLOWANCE_PRC	price index value
EIM GHG Shadow Prices	PRC_EIM_GHG	INTERVAL_START_GMT INTERVAL_END_GMT MKT_TYPE	Interval Start time (GMT) Interval End time (GMT) RTPD and RTD
GHG shadow price of the net imbalance energy export		PRC_SHADOW	EIM GHG Shadow price
MPM Default Competitive Path Assessment List	PRC_MPM_DEFAU LT_CMP	OPR_DATE  CONSTRAINT_GROUP_NAME  COMPETITIVE_FLAG	PRC_MPM_DEFAULT_CMP Opr Date Constraint Group Name Competitive Flag (Y or N)
Hourly RTM LAP prices  The Hourly Real-Time LAP Price for each	PRC_RTM_LAP	LMP_CONG_PRC	Hourly Real Time Market LAP Marginal Cost of Congestion (MCC) for Apnode
Custom and Default Load Aggregation Point (DLAP).		LMP_ENE_PRC	Hourly Real Time Market LAP System Marginal
The Hourly Real-Time LAP price data is downloadable to XML and CSV only, for a single day at a time.			Energy Cost (MCE) for Apnode
Hourly Real-Time LAP price includes Total (LMP), Energy (MCE), Congestion (MCC) and Loss (MCL) price components.		LMP_LOSS_PRC	Hourly Real Time Market LAP Marginal Cost of Losses (MCL) for Apnode
Oasis will include separate XML file for each price component within the same zip file.		LMP_PRC	Hourly Real Time Market LAP total (LMP) Price for Apnode
		LMP_GHG_PRC	Hourly Real Time Market LAP LMP - GHG Component
TRANSMISSION			
Current Transmission Usage	TRNS_CURR_USA		Current Hourly/15-min ATC;
Consolidated report for Current transmission capacity and usage per Transmission Interface.	GE	AS_IMPORT_MW	Current Hourly/15-min Tagged AS from Imports;
Starts with 7-days ahead and is updated continuously as outages occur.		ENE_IMPORT_MW	Current Hourly/15-min Tagged Net Energy from
AS, Energy and ETC/TOR utilization values are updated in conjunction with the publication of		0014 1444	Imports / Exports;
the DAM and RTM market results.  Note: This API will updated to return only the current trade date and/or future trade date. It		CBM_MW OTC_MW	Current Hourly/15-min CBM; Current Hourly/15-min OTC; This refers to the "Hourly TTC" value
will return an error if used for historical trade date.		TTC_MW	Current Hourly/15-min TTC; This refers to the "Seasonal TTC" value
		CONSTRAINT_MW	Current Hourly Constraint;

Day and Day 14 Cat	VMI Nome	VMI Data Itama	Description
Report/ResultSet  Note: Report displays data at ITC/ISL level	XML Name	XML Data Items USEAGE_MW	Description Current Hourly Unused TR
(Transmission Interface ID). After new ETCC			Capacity
activation date, data in the Transmission Interface ID column will no longer display		TRM_MW	Total TRM
historic mapping to Branch Groups. Data will still display "/" character. Mapping of intertie		TRM_UF_MW	Unscheduled Flow
constraints and scheduling limits to ties and scheduling points can be found in the Atlas		TRM_FTO_MW	Forced Topology outages
Reference reports: Scheduling Point and Tie Definition, Intertie Constraint and Scheduling Point Mapping, and Intertie Scheduling Limit		TRM_SPI_MW	Simultaneous Path Interaction
and Tie Mapping.		MKT_XFER_CAP_MW	Market Transfer Capability
Market Available Transmission Capacity	TRNS_ATC	ATC_MW	DAM Hourly or HASP 15-
Available Transmission Capacity per Transmission Interface for DAM, HASP, RTPD.			minute or RTPD 15-minute ATC
ATC = OTC (TTC-CBM-Constraint)-AS From Imports-Net Energy flow from Imports/Exports-Unscheduled Transmission Rights capacity.			
Note: Report displays data at ITC/ISL level (Transmission Interface ID). After new ETCC activation date, data in the Transmission Interface ID column will no longer display historic mapping to Branch Groups. Data will still display "/" character. Mapping of intertie constraints and scheduling limits to ties and scheduling points can be found in the Atlas Reference reports: Scheduling Point and Tie Definition, Intertie Constraint and Scheduling Point Mapping, and Intertie Scheduling Limit and Tie Mapping.			
Transmission Outages	TRNS_OUTAGE	OUTAGE_LIMIT_MW	Curtailed Line Rating for
List planned and actual Transmission Outage events per Transmission Interface and direction. Updated with every outage event.			each Transmission Interface MW.
Note: Report displays data at ITC/ISL level (Transmission Interface ID). After new ETCC activation date data in the Transmission Interface ID column will no longer display historic mapping to Branch Groups. Data will still display "/" character. Mapping of intertie constraints and scheduling limits to ties and scheduling points can be found in the Atlas Reference reports: Scheduling Point and Tie Definition, Intertie Constraint and Scheduling Point Mapping, and Intertie Scheduling Limit and Tie Mapping.			
Transmission Interface Usage	TRNS_USAGE	ATC_MW	DAM Hourly or HASP 15-
Transmission menass osage			minute or RTPD 15-minute ATC:
Consolidated report for transmission capacity, usage, ETC/TOR utilization and schedules resulting from CAISO market operations for DAM,HASP or RTPD by Transmission Interface.		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;

Papart/PacultSat	XML Name	XML Data Items	Description
Report/ResultSet  Note: Report displays data at ITC/ISL level (Transmission Interface ID). After new ETCC activation date, data in the Transmission Interface ID column will no longer display historic mapping to Branch Groups. Data will still display "/" character. Mapping of intertie constraints and scheduling limits to ties and scheduling points can be found in the Atlas Reference reports: Scheduling Point and Tie Definition, Intertie Constraint and Scheduling Point Mapping, and Intertie Scheduling Limit and Tie Mapping.	ANIL Name	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  Peak Demand Forecast per CAISO control area total. Posting begins at 7 days before Trading Day.  Also posts Peak Demand Forecast by TAC Area.	SLD_FCST_PEAK	SYS_PEAK_MW	The forecast peak demand in MW for the Forecast Day.
	1	1	1

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Report/ResultSet	XML Name	XML Data Items	Description
CAISO Demand Forecast  Daily posting for the 2-DA,7-DA hourly forecast,  DAM hourly forecast by TAC area.	SLD_FCST	SYS_FCST_DA_MW	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;
		SYS_FCST_2DA_MW	The forecast MW demand for each hour of the Operating Day, posted two days before the Operating day;
		SYS_FCST_7DA_MW	The forecast MW demand for each hour of the Operating Day, posted seven days before the Operating day;
Hourly posting for the hourly Actual Demand by TAC area.		SYS_FCST_ACT_MW	The actual demand measurement by Hourly basis
15-minute posting for the RTPD markets by TAC area.		SYS_FCST_15MIN_MW	The forecast MW demand for 15 minute intervals
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.		SYS_FCST_5MIN_MW	The VSTLF forecast MW demand used for the Operating Interval, for use in RTID
Advisory CAISO Demand Forecast  RTPD 15-minute advisory Load Forecast is posted every 15 minutes.  RTM 5-Minute advisory Load Forecast is	SLD_ADV_FCST	SYS_ADV_FCST_MW	The "first" advisory interval forecast MW demand for 15 or 5 minute intervals
posted every five minutes.			
Forecast and actual wind and solar generation by hour. Aggregated by trading hub (NP15, ZP26, and SP15). Day-Ahead forecast is	SLD_REN_FCS1	RENEW_FCS1_DA_MW RENEW_FCST_HASP_MW RENEW_FCST_ACT_MW RENEW_FCST_5MIN_MW RENEW_FCST_15MIN_MW	each hour of the Operating Day, posted in the morning the day before the each markets run
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		TRADING_HUB	The trading hub name. Valid values are NP15,SP15,ZP26 and ALL
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	of the following - "Wind" (Include: Wind PIRP & EIR resources) "Solar" (Include: Solar PIRP & EIR resources).
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		RENEW_FCST_ACT_MW RENEW_FCST_5MIN_MW RENEW_FCST_15MIN_MW TRADING_HUB	Day, posted in the mor the day before the each markets run  The trading hub name. values are NP15,SP15,ZP26 and  Renewable Type include of the following  - "Wind" (Include: Wind & EIR resources).  - "Solar" (Include: Solar

Report/ResultSet	XML Name	XML Data Items	Description
Reportinesunoct	AME Name	AME Data Items	Description
Sufficiency Evaluation Demand Forecast	SLD_SF_EVAL_DM D_FCST	BAA_ID	Balancing Authority Area Identifier
Unbiased hourly and 15-minute load forecast. Provides a 7-day publication period data availability.		GRANULARITY	Corresponds to the HOURLY or 15MIN level forecast
		FCST_PUBLICATION_GMT	Timestamp on when the forecast is published for the upcoming horizon, GMT
		INTERVAL_START_GMT	Start time of the interval, GMT
		FCST_MW	Forecast in MW unit
ENERGY			
System Load and Resource Schedules	ENE_SLRS	ISO_TOT_GEN_MW	ISO Total MW cleared as Generation in DAM, RUC, HASP, RTM.
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:		ISO_TOT_LOAD_MW	ISO Total MW cleared as Demand in DAM, HASP, RTM.
<b>DAM</b> Load, Generation, Import and Export Schedules per TAC Area and CAISO total for each Operating Hour, in MW.		ISO_TOT_IMP_MW	ISO Total MW cleared as imports in DAM, RUC, HASP, RTM.
RUC Capacity from Generation and Imports for each TAC Area and CAISO total for each		ISO_TOT_EXP_MW	ISO Total MW cleared as Exports in DAM, HASP, RTM.
Operating Hour, in MW		TOT_GEN_MW	IXTIWI.
Hour-Ahead Scheduling Process (HASP) Import and Export per TAC Area and CAISO total, in MW.		TOT_LOAD_MW	Total MW cleared as Generation in DAM, RUC, HASP, RTM, by TAC Area.
5 minute <b>RTM</b> Generation, Import and Export per TAC Area and CAISO total, in MW.		TOT_IMP_MW	ISO Total MW cleared as Demand in DAM, HASP, RTM, by TAC Area.
		TOT_GEN_MW	ISO Total MW cleared as imports in DAM, RUC, HASP, RTM, by TAC Area.
			ISO Total MW cleared as Exports in DAM, HASP, RTM, by TAC Area.
Expected Energy	ENE_EA	DASE_MWH DSSE_MWH DABE_MWH	DA Scheduled Energy DA Self-Scheduled Energy DA Bid Award Energy
After-the-Fact Energy Accounting, per Energy Type. Posted daily at T+1, in MWh for ISO total.		OE_MWH HASE_MWH	Optimal Energy HourAhead Scheduled Energy
		SRE_MWH RED_MWH EDE_MWH RMRE_MWH	Standard Ramping Energy Ramping Energy Deviation Exceptional Dispatch Energy RMR Energy

Report/ResultSet	XML Name	XML Data Items	Description
Please refer to the table in the BPM for Market Operations, Appendix C.4 for the complete list of valid Expected Energy Types.		MSSLFE_MWH RE_MWH MLE_MWH SE_MWH RTSSE_MWH DMLE_MWH PE_MWH TEE_MWH BASE MWH	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
Market Dawer Mitigation Status	ENE_MPM	MDE_MWH MPM_STATUS_FLG	EIM Manual Dispatch Energy Indicator whether mitigation
Market Power Mitigation Status  Mitigation Indicator showing whether any bids were replaced by Reference Curves. Value will be "Y" or "N".		BAA_ID	occurred in that Operating Interval One of more EIM BAA ID
RMR	CMMT_RMR	DISPATCH_MW	The RMR capacity
Pre-Dispatched and MPM Determined RMR capacity (MW) summed for all resources, for the DAM and RTM market processes.		TOT_AVAIL_MW DETER_MW	dispatched ahead of the Market.  Total RMR capacity available to the market in that hour. RMR capacity determined by
Eventional Dispotab	ENE DISP	EXPT_DIS_PRC	MPM before market run.  Exceptional Dispatch Price.
Exceptional Dispatch Summary of Exceptional Dispatch Data. Posted daily at T+1, in MWh by TAC area and Instruction Type.  Please refer to the table in the BPM for Market	_	EXPT_DIS_MWH	Exceptional Dispatch MW
Operations, Appendix C.4 for the complete list of valid Exceptional Dispatch Instruction Types.			
Marginal Losses CAISO Total Marginal Loss costs (\$) and Total System losses (MWh). Posted hourly for the DAM and HASP.	ENE_LOSS	TOT_LOSS_PRC TOT_LOSS_MW	Total costs incurred due to Losses in this hour/interval. Total MWh lost
Resource Adequacy and Minimum Load	CMMT_RA_MLC	RA_CAP_COMM_MW	RA Capacity Committed
Commitment data for each market. All data for all markets posted daily at T+1. All commitment		MIN_LD_MW	Minimum Load
data is related to ISO committed resources.		RA_MLC_PRC	RA Minimum Load Cost
		MIN_LD_MLC_PRC	(MLC)
		TOT_STRT_CST_PRC	Minimum Load cost
		RA_STRT_PRC	Total Start Up Cost
		RA_COMM_UNITS_CNT	RA Start-Up Cost RA Number of Units
		TOT_COMM_UNITS_CNT	Committed
		TOT_COMM_CAP_MW	Total Number of Units Committed
			Total Capacity Committed
Convergence Bidding Aggregate Awards	ENE_CB_AWARDS	ISO_TOT_SPLY_MW	Supply Component
		ISO_TOT_DMD_MW	Demand Component



		Description
ENE_CB_CLR_AW ARDS	ENE_CB_CLR_MW	Cleared MW
ENE_CB_MKT_SUM	DMD_SLF_ENE_CLR_MW	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
	DMD_SLF_CLR_CST	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  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
	ENE_CB_MKT_SUM	ENE_CB_MKT_SUM DMD_SLF_ENE_SUB_MW  DMD_SLF_ENE_CLR_MW

Report/ResultSet	XML Name	XML Data Items	Description
		DMD_ENE_SUB_CST	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_MW	Sum of demand economic energy bids awarded (cleared) for all internal resources for a specific trade date in the day ahead market
		DMD_ENE_CLR_CST	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_ENE_SUB_MW	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_SUB_CST	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_ENE_CLR_MW	Sum of demand convergence bidding (virtual) energy bids awarded (cleared) for all internal resources for a specific trade date in the day ahead market
		DMD_VIR_CLR_CST	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_ENE_SUB_MW	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

Report/ResultSet  XML Name  XML Data Items  DMD_TOT_SUB_CST  Sum of dollars assowith demand self some energy bids submitted demand economic bids submitted, der virtual bids submitted internal resources (nodes) for a specific date in the day ahe schedule energy bids awarded (cleared) economic energy bids submitted energy bids energy bids submitted energy bids submitted energy bids energy bids energy bids energy bids energy bids energy bids submitted energy bids en	ociated chedule tted, energy mand ed for all (and ic trade ead market lf ids , demand oids
schedule energy bi awarded (cleared) economic energy b	ids , demand pids
awarded (cleared), virtual bids awarder (cleared) for all into resources (and not specific trade date	d ernal des) for a
DMD_TOT_CLR_CST  ahead market Sum of dollars assor with demand self some energy bids awarded (cleared), demand energy bids awarded (cleared), demand bids a	chedule ed l economic ed virtual ired) for es (and ic trade ead market
SPLY_ENE_SUB_MW  Sum of supply physical energy bids submit internal resources to specific trade date ahead market. All to values in each pricontinuous will be included in to calculation.	tted for all for a in the day he MW e curve
SPLY_ENE_SUB_CST  Sum of dollars assort with supply physical submitted for all interesources for a special date in the day ahe market. All the MW values in each price will be included in to calculation.	al energy ternal ecific trade ead //price pair e curve
SPLY_ENE_CLR_MW	
Sum of supply physical energy bids awards (cleared) for all interesources for a special date in the day ahe	ed ernal ecific trade
SPLY_ENE_CLR_CST  Sum of dollars assort with supply physical bids awarded (clear internal resources to specific trade date ahead market	al energy red) for all for a
SPLY_SLF_ENE_SUB_MW	



Report/ResultSet	XML Name	XML Data Items	Description
		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
			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_ENE_SUB_MW 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	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_SUB_CST	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.

Report/ResultSet	XML Name	XML Data Items	Description
		SPLY_TOT_ENE_CLR_MW	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
		SPLY_TOT_CLR_CST	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_SUB_MW	Sum of dollars associated with 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
		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

Report/ResultSet	XML Name	XML Data Items	Description
		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
		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
		IMP_SLF_ENE_SUB_MW	ahead market

Report/ResultSet	XML Name	XML Data Items	Description
		IMP_SLF_ENE_CLR_MW IMP_SLF_CLR_CST	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_ENE_SUB_MW	Sum of Imports self schedule energy bids submitted for a specific trade date in the day ahead market
		IMP_ENE_SUB_CST	Sum of Imports self schedule energy bids awarded (cleared) for a specific trade date in the day ahead market Sum of dollars associated Sum of Imports self schedule energy bids
		IMP_ENE_CLR_MW	submitted for a specific trade date in the day ahead market. All the MW values in each price curve
		IMP_ENE_CLR_CST	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
		IMP_VIR_ENE_SUB_MW IMP_VIR_SUB_CST	calculation.  Sum of dollars associated with Imports physical 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_VIR_ENE_CLR_MW	Sum of Imports physical energy bids awarded (cleared) for a specific trade date in the day ahead market Sum of dollars associated with Imports physical energy bids awarded (cleared) for a
		IMP_VIR_CLR_CST	specific trade date in the day ahead market

Report/ResultSet	XML Name	XML Data Items	Description
		IMP_TOT_ENE_SUB_MW	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_SUB_CST	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_ENE_CLR_MW	Sum of Imports convergence bidding (virtual) energy bids awarded (cleared) for a specific trade date in the day ahead market
		IMP_TOT_CLR_CST	Sum of dollars associated with Imports convergence bidding (virtual) energy bids awarded (cleared) for a specific trade date in the day ahead market
			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_LIMIT	S CB_NODAL_LIMITS	Upper or lower limit (MW)
		PHYSICAL_TYPE	'Supply' or 'Demand'

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.			
Contingency Dispatch Resource Schedules Similar to the System Load and Resource	ENE_CD_SLRS	ISO_TOT_GEN_MW	ISO Total MW cleared as Generation for all 10-Minute Contingency Dispatch run.
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.		ISO_TOT_IMP_MW	ISO Total MW cleared as imports for all 10-Minute Contingency Dispatch run.
RTCD fulls.		ISO_TOT_EXP_MW	ISO Total MW cleared Exports for all 10-Minute Contingency Dispatch run.
		TOT_GEN_MW	Total MW cleared as Generation per TAC area for all 10-Minute Contingency Dispatch run.
		TOT_IMP_MW	Total MW cleared as imports per TAC area for all 10- Minute Contingency Dispatch run.
		TOT_EXP_MW	Total MW cleared as Exports per TAC area for all 10- Minute Contingency Dispatch run.
Aggregated Generation Outages	AGGR_OUTAGE_S CH	REPORT_DATE	The date when the data was published
Generator de-rates and outages which are considered in the Day-Ahead Market. Report is generated from the list of de-rates and outages		OUTAGE_DATE	Outage date
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		OUTAGE_HOUR	Outage hour
capacity reduction amount by trading hub (NP15, ZP26, and SP15) and resource type (thermal, hydro, renewable).		FUEL_CATEGORY	Fuel Category
		TRADING_HUB	Trading Hub name
		OUTAGE_MW	Outage MW
EIM Transfer Limits	ENE_EIM_TRANSF	MKT_TYPE	RTPD and RTD
	ER_LIMITS	INTERVAL_START_GMT	Interval Start time (GMT)
		INTERVAL_END_GMT	Interval End time (GMT)

Report/ResultSet	XML Name	XML Data Items	Description
After each RTPD and RTD market run is	- Hamile	BAA_GRP_ID	EIM BAA Group ID
completed, OASIS will post the NSI low/high (before 2019) or import/export (2019 onwards) limits per each EIM BAA group that are used in the market		LIMIT_TYPE	HIGH or LOW (before 2019) IMPORT or EXPORT (2019 onwards)
		EIM_XFER_ MW	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	MKT_TYPE	BAA Group ID  Market type. Only applicable for RTD market
		INTERVAL_START_GMT	Interval Start time (GMT)
		INTERVAL_END_GMT	Interval End time (GMT)
		CATEGORY	Supply or Intertie or Load
		PRODUCT	UM – Uncertainty Movement

Report/ResultSet	XML Name	XML Data Items	Description
		UNCERTAINTY_MV_MW	MW value
Flexible Ramp Requirements	ENE_FLEX_RAMP_ REQT	BAA_GRP_ID	BAA ID
	I LEGI	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
		NET_DEMAND_MW	MW value
		UNCERTAINTY_MW	MW value
Flex Ramp Aggregated Awards	ENE_AGGR_FLEX_ RAMP	BAA_GRP_ID	BAA Group ID
	IVAIVII	MKT_TYPE	Market type. Applicable for both RTPD and RTD markets.
		NTERVAL_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_	BAA_GRP_ID	BAA Group ID
	БС	RAMP_TYPE	Ramp Type ( UP or DOWN)
		NTERVAL_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_TRANSF ER_TIE		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_TRANSF ER_LIMITS_TIE	DATA_ITEM	EIM_XFER_LIMITS_TI E_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 INTERVAL_NUM	Opr Date 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 DATA_ITEM	Opr Date Summary Data Item( (DAM_SCHEDULE,DAM_NET_VI RTUAL,DAM_FORECAST,RTM_S
		INTERVAL_START_GMT INTERVAL_END_GMT VALUE	CHEDULE) Interval Start Time in GMT Interval End Time in GMT MW Value
Flexible Ramp Requirements Input	ENE_EIM_FLEX_R AMP_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
		DIVERSITY_BENEFIT_UC	Diversity benefit scaled uncertainty component.
		NET_EXPORT_CAPABILITY	Net Export Capability

Report/ResultSet	XML Name	XML Data Items	Description
		NET_IMPORT_CAPABILITY	Net Import Capability
		CREDIT	Credit
		TEST_INDICATOR	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
		FLEX_RAMP_REQ_MW	Requirement MW
		RAMP_TYPE	Ramp Type ( UP or DOWN)
		DATA_ITEM	ENE_EIM_FLEX_RAMP_IN TPUT
BAA Market Events	ENE_BAA_MKT_EV ENTS	INTERVAL_START_GMT	Interval Start time (GMT)
		INTERVAL_END_GMT	Interval End time (GMT)
		MKT_TYPE	Market type. Applicable for RTD market.
		BAA_ID	BAA ID
		MKT_EVENT_TYPE	Market Event Type
			The valid values for MKT_EVENT_TYPE currently being planned are as follows:
			Contingency
			Contingency-Corrected to Yes
			Contingency-Corrected to No
Resource-Specific Uplift	ENE_RES_UPL	RESOURCE_ID	Resource ID
		RESOURCE_NAME	Resource Common Name
		INTERVAL_START_GMT	Interval Start Date Time (GMT)
		INTERVAL_END_GMT	Interval End Date Time (GMT)

Report/ResultSet	XML Name	XML Data Items	Description
	- Mario	UPLIFT_CATEGORY	Uplift Category (Charge Code)
		UPLIFT_PAYMENT	Uplift \$ Payment
Zonal Uplift	ENE_ZNL_UPL	INTERVAL_START_GMT	Interval Start Date Time (GMT)
		INTERVAL_END_GMT	Interval End Date Time (GMT)
		TAC_AREA	TAC Area Name
		UPLIFT_CATEGORY	Uplift Category (Charge Code)
		UPLIFT_PAYMENT	Uplift \$ Payment
Operator-Initiated Commitment	ENE_OIC	RESOURCE_ID	Masked Resource ID
		TAC_AREA	TAC Area Name
		INTERVAL_START_GMT	Interval Start Date Time (GMT)
		START_DATE_TIME_GMT	Start Date Time (GMT)
		END_DATE_TIME_GMT	End Date Time (GMT)
		MKT_TYPE	Market Type. Applicable for DAM and RTM
		EXECUTION_TYPE	Execution Type. Applicable for RUC, RTPD, and RTD
		COMMITMENT_MW	Commitment Size (MW)  Dispatch MW for ED  RUC Capacity for RUC
		CONSTRAINT_TYPE	Constraint Type  Minimum, Maximum, Fixed for Exceptional Dispatch Capacity for RUC.
		REASON	Reason Code for Exceptional Dispatch  "System Wide Capacity" for RUC
		CLARIFIED_REASON	Other Reason for Exceptional Dispatch     "Optimization" for RUC
ANCILLARY			
AS Requirements	AS_REQ	NS_REQ_MAX_MW	Max capacity to be acquired for NonSpin
Ancillary Service Capacity Minimum and Maximums per AS Region. Report will post for		RD_REQ_MAX_MW	Max capacity to be acquired
the 2-Day-Ahead forecast, DAM , HASP and RTM (RTPD)		RU_REQ_MAX_MW	for RegulationDown Max capacity to be acquired for RegulationUp
Note:		SP_REQ_MAX_MW	Max capacity to be acquired for Spin

Report/ResultSet	XML Name	XML Data Items	Description
When encountering a max A/S limit of zero,		NS_REQ_MIN_MW	Min capacity to be acquired
please interpret this as "no limit".		RD_REQ_MIN_MW	for NonSpin 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 Requlation Mileage Down
		RMD_REQ_MIN_MW	Min capacity to be acquired for Requiation Mileage Down
		RMU_REQ_MAX_MW	Max capacity to be acquired for Requlation Mileage Up
		RMU_REQ_MIN_MW	Min capacity to be acquired for Requlation Mileage Down
A.C. Dooulto	AS_RESULTS	RU_TOT_CST_PRC	The Total line cost across
AS Results	7.10_1.12002.10		AS Region for Regulation Up.
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.		RD_TOT_CST_PRC	The Total line cost across AS Region for Regulation Down.
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,		SP_TOT_CST_PRC	The Total line cost across AS Region for Spin.
by AS Type.  Results will only post for AS Regions that are		NS_TOT_CST_PRC	The Total line cost across AS Region for NonSpin.
binding for that market run.		NS_PROC_MW	The MW of capacity procured from the AS market bids for NonSpin. The MW of capacity self-provided by market
		NS_SPROC_MW	participants. Total MW of capacity obtained.
		NS_TOT_MW	The MW of capacity procured from the AS market
		SP_PROC_MW	bids for Spin. The MW of capacity self- provided by market
		SP_SPROC_MW	participants Total MW of capacity obtained
		SP_TOT_MW	T. MAY (
		RU_PROC_MW	The MW of capacity procured from the AS market bids for RegulationUp. The MW of capacity self-provided by market participants.

Report/ResultSet	XML Name	XML Data Items	Description
		RU_SPROC_MW	Total MW of capacity obtained.
		RU_TOT_MW	The MW of capacity procured from the AS market bids for RegulationDown.
		RD_PROC_MW	The MW of capacity self- provided by market participants. Total MW of capacity
		RD_SPROC_MW	obtained
		RD_TOT_MW	
		RMD_PROC_MW	
		RMD_SPROC_MW	The MW of capacity procured from the AS market bids for Regulation Mileage Down
		RMD_TOT_CST_PRC	The MW of capacity self- provided by market participants for Regulation Mileage Down
		RMD_TOT_MW	The Total line cost across AS Region for Regulation Mileage Down
		RMU_PROC_MW	Total MW of capacity obtained for Requlation Mileage Up
		RMU_SPROC_MW	The MW of capacity procured from the AS market bids for Regulation Mileage Up
		RMU_TOT_CST_PRC	The MW of capacity self- provided by market participants for Regulation Mileage Up
		RMU_TOT_MW	The Total line cost across AS Region for Regulation Mileage Up
			Total MW of capacity obtained for Requlation Mileage Up
Actual Operating Reserves Total Actual Load, AS, and Operating Reserves maintained during delivery.		OP_RSRV_ACT_PCT	Total Actual Operating Reserves maintained during delivery.
Mileage Calculation Components	AS_MILEAGE_CAL C	RMD_AVG_MIL	Average Instructed Mileage for regulation mileage down

Report/ResultSet	XML Name	XML Data Items	Description
Lists system performance accuracy, average Instructed Mileage (MW), and system Mileage multiplier		RMD_SYS_MIL_MUL	System Mileage Multiplier for regulation mileage down
data from the prior seven days for each hour of a trading day.		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
Congestion Revenue Rights Auction Clearing Prices by Pnode for CRR segments.		Note : These the XML tags for corresponding data items	
		CRR_MARKET_NAME	CRR MARKET NAME
		RESOURCE_NAME	APNODE ID
		START_DATE_TIME	START DATE
		END_DATE_TIME	End DATE
		REASON	MARKET TERM
CRR Inventory Congestion Revenue Rights Daily Inventory.	CRR_INVENTORY	ON_MW OFF_MW	On-peak capacity Off-peak capacity
CRR Aggregated Revenue Adjustment Data	CRR_AGG_REV_A DJ	Note: These are the XML tags for corresponding data items 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 START_DATE_TIME END_DATE_TIME	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 Market interval start time Market interval end time Unique Identifier that represents an event where a transmission line has restricted flow capacity for
		CNICTO CACE	the designated time period
		CNSTR_CASE	



Report/ResultSet	XML Name	XML Data Items	Description
Report Resultoet	AME Name	Note : The below elements are modeled as OASISDataitems  TOTAL_NOTIONAL_VALUE  TOTAL_OFFSET_VALUE	Unique Identifier that represents the basis for a transmission line to have restricted flow capacity for the designated time period  The revenue amount normally paid for a CRR  The revenue amount not paid for a CRR due to transmission constraints and associated reduction in congestion revenues
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 only downloadable to XML and CSV, for a single day at a time.  Data is available for downloading at midnight on the 90 <sup>th</sup> 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	Note: Below structure is common for –GENERATION, LOAD, and INTERTIE.  STARTTIME STOPTIME  REGISTEREDGENERATOR  SCHEDULINGCOORDINATO R  PRODUCTBID DESCRIPTION MRID  MARKETPRODUCT DESCRIPTION  MARKETPRODUCTTYPE  BIDSELFSCHED TIMEINTERVALSTART TIMEINTERVALEND SELFSCHEDMW	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
		BIDSCHEDULE TIMEINTERVALSTART TIMEINTERVALEND BIDPRICECURVE MRID  CURVESCHEDDATA XAXISDATA Y1AXISDATA Y2AXISDATA	Curve details contains X and Y1 & Y2 axis data.  Xaxis= optional element Y1axis = optional element Y2 axis = Opportunity Cost; optional element
CB Public Bids	PUB_CB_BID	STARTTIME STOPTIME	Start time of Virtual bid End time of Virtual bid
			Pseudo ID of Apnode

Report/ResultSet	XML Name	XML Data Items	Description
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 only downloadable to XML and CSV, for a single day at a time.  Data is available for downloading at midnight on the 90th day after the trading day.		AggregatedPnode IndividualPnode VirtualBidType SCHEDULINGCOORDINATO R  ENERGYPRODUCTBID BIDSCHEDULE TIMEINTERVALSTART TIMEINTERVALEND BIDPRICECURVE  CURVESCHEDDATA XAXISDATA	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.
Congestion Revenue Rights (CRR) Bublic Ride	PUB_CRR_BID	Y1AXISDATA STARTTIME	Effective Start Date of the
Congestion Revenue Rights (CRR) Public Bids	1 05_0///_5/5	OTT WILL	CRR
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		STOPTIME	Effective End Date of the CRR
seasonal auctions after each relevant quarter has passed. The Public Bid Data is only downloadable to XML and CSV, for a single market at a time.		MARKETTERM	CRR auction type. Valid values are Seasonal or Monthly
		MARKETNAME	CRR auction name
		SOURCEID	Source id
		SINKID	Sink id
		TIMEOFUSE	Time of use of the CRR bid
		MWQUANTITY	The MW Quantity of the bid point
		CRR_PRICE	The Price of the bid point
		CRRBID_ID	CRR Bid identifier
		CRRBIDSEG_ID	The point number in the CRR Bid
		AUCTIONCLOSEDATE	CRR auction Close date.
		TRANSACTION_TYPE	Transaction type will be used to identify individual transactions as BUY or SELL
		HEDGE_TYPE	Hedge type will be used to indicate CRR HedgeType (OBLIGATION or OPTION
Competitive Solicitation Process Offer Set	PUB_CSP_OFFER_ SET	OFFERPERIODSTARTTIME	Start time of the CSP offer period (GMT).
		OFFERPERIODENDTIME	



Report/ResultSet	XML Name	XML Data Items	Description
Finalized offers into the competitive solicitation process for Annual, monthly and intra-monthly			End time of the CSP offer period (GMT).
offer period.  This data will be posted on a rolling five-quarter delay.			Resource Adequacy Period type is one of the following enumerated value
The Offer Data is only downloadable to XML and CSV.			ANNUAL MONTHLY INTRAMONTHLY
		STARTTIME	Start time of the CSP offer (GMT).
		ENDTIME	End time of the CSP offer (GMT).
			Schedule type is one of the following enumerated value
		REGISTEREDRESOURCE	FLEXIBLE GENERIC Pseudo ID of Resource
		SCHEDULINGCOORDINATO	Pseudo ID of SC_ID
		GENERATIONTYPE	Generation Technology Type is one of the following value
		FLEXIBLECATEGORY	WIND SOLAR HYDRO AGGR_OTHER
			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 Y1AXISDATA	The value on x-axis is MW

Report/ResultSet	XML Name	XML Data Items	Description
			The value on y1-axis is price (\$).
ATLAS			
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		N/A	Map of all Pnodes to each Trading Hub APNode.
AS Region – Pnode Mapping	ATL_AS_REGION_ MAP		Map of all Pnodes to each Ancillary Services Region.
RUC Zone – Pnode Mapping	ATL_RUC_ZONE_M AP	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  Note: Report will not display data after new ETCC activation date.	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.
Note: Report will not display data after new ETCC activation date.			
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		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.

Report/ResultSet	XML Name	XML Data Items	Description
	7tm2 Itamo	Amz Data Romo	Severity : Green = Normal,
			Red = Emergency, Blue =
			Urgent
Peak-Off-Peak Definition	ATL_PEAK_ON_OF	N/A	Posts Hourly Peak/Off-Peak
	F		indicator based on the
	ATL ORNORE	N1/A	WECC definition.
Convergence Bidding Node List	ATL_CBNODE	N/A	List all the nodes and/or ties
	ATL_PRC_CORR_	MSG_TIME	for convergence bidding  Date And Time of the
Price Correction Messages	MSG	OASIS_MARKET_RUN_ID	Message
	IVIOO	MSG_TEXT	Actual Text of the correction
Outside the experience Defections	ATL_SP	BAA_ID	Balancing Area Authority Id
Scheduling Point Definition	7.12_01	5, 0, 12, 15	Balanoning / troa / tathonity ha
		SCHEDULING_POINT	Schedule Point Name
		_	
		ALLOW_BID	Flag to denote if the Bid is
			allowed
		TI_DIRECTION	Bid Direction (Import,
			export,Both)
		START_DATE	Effective Start Date of the
			Scheduling Point
		END DATE	Effective End Date of the
		END_DATE	Scheduling Point
DAA A LTI D C W	ATL_BAA_TIE	TIE_NAME	Name of the Tie
BAA And Tie Definition	ATE_BAA_TIE	TIE_IVAIVIE	Name of the ric
		FROM_BAA	From BAA id
		TO_BAA	To Baa Id
		EIM_TRANSFER_FLAG	Transfer Flag(Y or N)
		START_DATE	Effective Start Date of the
		END DATE	Tie
	ATL_SP_TIE	END_DATE TIE NAME	Effective End Date of the Tie  Name of the Tie
Scheduling Point and Tie Definition	ATL_SF_TIL	TIE_NAIVIE	Ivallie of the file
		SCHEDULING_POINT	Scheduling Point Name
		00.12002.110 0	generaling i emi i tame
		START_DATE	Effective Start Date
		END_DATE	Effective End Date
Intertie Constraint and Scheduling Point	ATL_ITC_SP	TIEPOINT_NAME	Name of the Constraint
Mapping			Group
		SCHEDULING_POINT	
			Name of the Schedule Point
		START_DATE	Effective Otest Detective
			Effective Start Date of the
			Constraint and Schedule Point Mapping
			l ont wapping
		END_DATE	Effective End Date
Intertio Schoduling Limit and Tip Manning	ATL_ISL_TIE	TIE NAME	Name of the Tie
Intertie Scheduling Limit and Tie Mapping		ITIE_SCHEDULING_LIMIT	Name of the Itie Schedule
		_	Limit
			Effective Start Date of the
		START_DATE	Schedule Limit and Tie
			Mapping
			Effective End Date of the
	1		Effective End Date of the
			ISchedule Limit and Tin
		END DATE	Schedule Limit and Tie
Martin Carlot Arra Carlot and Car	ATI GEN CAP IS	END_DATE  RESOURCE ID	Mapping
Master Control Area Generating Capability Li	ist. ATL_GEN_CAP_LS	END_DATE RESOURCE_ID	

Report/ResultSet	XML Name	XML Data Items	Description
This service can be used to get the CAISO		GEN_UNIT_NAME	Name of the generating unit
Control Area generating resource information.  This service will include only active generating		PARENT_RESOURCE_ID	Parent resource id of the aggregated child resource
resource information.		BAA_ID	Balancing Area Authority ID
		CLASSIFICATION	Unit classification. Valid values are Participating or Nonparticipating
		RESOURCE_AGG_TYPE	Y/N Identifier if a resource is Aggregate or Nonaggregate resource
		QF	Y/N Identifier if a resource is a qualifying cogeneration facility or small qualifying power production facility.
		NET_DEPENDABLE_CAPAC ITY	Net Dependable Capacity (MW)
		PTO_AREA	Name of the PTO Area
		OWNER_OR_QF	Owner or QF ID
		UNIT_TYPE	Type of unit
		ENERGY_SOURCE	Source of Energy
		ZONE	Zone Name
		COD	NP15, SP15 and ZP26 The date when the capacity becomes commercial
		UDC	Utility Distribution Company
		RIVER_SYSTEM	River System
		NAMEPLATE_CAPACITY	The actual nameplate capacity rating on the resource, (Gross output that cannot exceed the interconnection agreement) Exact MW
		RESOURCE_TYPE	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	http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_LMP&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1&market_run_id=DAM&grp_type=ALL_APNODES
	OR
	http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_LMP&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1&market_run_id=DAM&node=LAPLMG1_7_B2
	NOTE:
	<ol> <li>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.</li> </ol>
	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
	The "enddatetime" is referenced only when a node is supplied in the query
	http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_INTVL_LMP&startdatetime=20130919T07:00-
PRC_INTVL_LMP	0000&enddatetime=20130919T08:00-0000&version=1&market_run_id=RTM&grp_type=ALL_APNODES
	OR
	http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_INTVL_LMP&startdatetime=20130919T07:00-0000&enddatetime=20130919T08:00-0000&version=1&market_run_id=RTM&node=LAPLMG1_7_B2
	http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_INTVL_LMP&startdatetime=20130919T07:00-0000&enddatetime=20130919T08:00-0000&version=2&market_run_id=RTM&grp_type=ALL_APNODES
	OR
	http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_INTVL_LMP&startdatetime=20130919T07:00-0000&enddatetime=20130919T08:00-0000&version=2&market_run_id=RTM&node=LAPLMG1_7_B2
	http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_INTVL_LMP&startdatetime=20130919T07:00-0000&enddatetime=20130919T08:00-0000&version=3&market_run_id=RTM&grp_type=ALL_APNODES
	OR
	http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_INTVL_LMP&startdatetime=20130919T07:00-0000&enddatetime=20130919T08:00-0000&version=3&market_run_id=RTM&node=LAPLMG1_7_B2
	NOTE:
	<ol> <li>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.</li> </ol>
	<ol><li>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</li></ol>
	3. The "enddatetime" 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 pow version (version=2) introduced as part of Fall 2014 release, will include now element.
	<ol><li>Only new version (version=2) introduced as part of Fall 2014 release will include new element LMP_GHG_PRC.</li></ol>



	<del>,</del>
	http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_HASP_LMP&startdatetime=20130919T07:00-
DDC HACD IMD	0000&enddatetime=20130919T08:00-0000&version=1&market_run_id=HASP&grp_type=ALL_APNODES
PRC_HASP_LMP	OR
	http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_HASP_LMP&startdatetime=20130919T07:00-0000&enddatetime=20130919T08:00-0000&version=1&market_run_id=HASP&node=LAPLMG1_7_B2
	00000xeriddatetiirie=20130313100.00-00000xversion=1ximarket_tdi1_id=i1A31 xinode=EAI ElviO1_7_bZ
	http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_HASP_LMP&startdatetime=20130919T07:00-
	0000&enddatetime=20130919T08:00-0000&version=2&market_run_id=HASP&grp_type=ALL_APNODES
	OR <a href="http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_HASP_LMP&amp;startdatetime=20130919T07:00-">http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_HASP_LMP&amp;startdatetime=20130919T07:00-</a>
	0000&enddatetime=20130919T08:00-0000&version=2&market_run_id=HASP&node=LAPLMG1_7_B2
	http://www.inancianary.longia.com/10/ant-7/a0aaaaaaaa DDO HAOD HADD startilata/inanciana/ant-7/a0
	http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_HASP_LMP&startdatetime=20130919T07:00-0000&enddatetime=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&enddatetime=20130919T08:00-0000&version=3&market_run_id=HASP&node=LAPLMG1_7_B2
	NOTE:
	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.
DD0 DTDD 114D	http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_RTPD_LMP&startdatetime=20130919T07:00-
PRC_RTPD_LMP	0000&enddatetime=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&enddatetime=20130919T08:00-0000&version=1&market_run_id=RTPD&node=LAPLMG1_7_B2
	0000&enddatetime=20130919108.00-0000&version=1&market_run_id=R1PD&node=LAPLMG1_7_BZ
	http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_RTPD_LMP&startdatetime=20130919T07:00-
	0000&enddatetime=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&enddatetime=20130919T08:00-0000&version=2&market_run_id=RTPD&node=LAPLMG1_7_B2
	http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_RTPD_LMP&startdatetime=20130919T07:00-0000&enddatetime=20130919T08:00-0000&version=3&market_run_id=RTPD&grp_type=ALL_APNODES
	OR ODD WAS A PRODUCT OF THE PRODUCT OF THE PROPERTY OF THE PRODUCT OF THE PROPERTY OF THE PROP
	http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_RTPD_LMP&startdatetime=20130919T07:00-
	0000&enddatetime=20130919T08:00-0000&version=3&market_run_id=RTPD&node=LAPLMG1_7_B2
	NOTE:
	NOTE:
	1 Recommend to use grounding or node only. Grounding the ADNODES or ALL NODES
	<ol> <li>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.</li> </ol>
	<ol> <li>The "enddatetime" is ignored if the query is to pull "ALL" or "ALL_APNODES" nodes; ie query will</li> </ol>
	return only 1-hour's worth of data for all nodes at a time based on the "startdatetime" supplied
	return only 1-hours worth of data for all houes at a time based on the startdatetime supplied
	3. The "enddatetime" is referenced only when a node is supplied in the query
	3. The "enddatetime" is referenced only when a node is supplied in the query
	3. The "enddatetime" is referenced only when a node is supplied in the query

PRC_AS	http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_AS&market_run_id=DAM&startdatetime=201309
	19T07:00-0000&enddatetime=20130920T07:00-0000&version=1&anc_type=ALL&anc_region=ALL
	Note: For HASP replace, 'DAM' with 'HASP'.
PRC_INTVL_AS	http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_INTVL_AS&market_run_id=RTM&startdatetime=
	20130919T07:00-0000&enddatetime=20130919T08:00-0000&version=1&anc_type=ALL&anc_region=ALL
PRC_CNSTR	http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_CNSTR&market_run_id=DAM&ti_id=ALL&startda
	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=20130
	919T07:00-0000&enddatetime=20130920T07:00-0000&version=1
PRC_CURR_LMP	http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_CURR_LMP&node=ALL&startdatetime=2013091
	9T07:00-0000&enddatetime=20130919T07:00-0000&version=1
	http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_CURR_LMP&node=ALL&st
	artdatetime=20130919T07:00-0000&enddatetime=20130919T07:00-0000&version=2
PRC_CURR_HUB_	http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_CURR_HUB_LMP&startdatetime=20130919T07:
LMP	<u>00-0000&amp;version=1</u>
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_NOMO	http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_RTM_NOMOGRAM&market_run_id=RTM&nomo
GRAM	<u>gram_id=ALL&amp;startdatetime=20130919T07:00-0000&amp;enddatetime=20130920T07:00-0000&amp;version=1</u>
	http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_RTM_FLOWGATE&market_run_id=RTM&node=
ATE	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: Drives one the serve for the outing supplies
	NOTE: Prices are the same for the entire quarter.
	http://opeig.goige.gom/opeigapi/Cingle-Zip?guap/pama_CD_NODAL_CDD_CNCTD_DDC9-start-fat-stires_00420
CB_NODAL_GRP_	http://oasis.caiso.com/oasisapi/SingleZip?queryname=CB_NODAL_GRP_CNSTR_PRC&startdatetime=20130 919T07:00-0000&enddatetime=20130920T07:00-0000&version=1
CNSTR_PRC	
DDC ELEV SAME	http://www.no.com/www.no.com//Cimple/TimOurces-no.com/PDO_FLEV_DANCES_no.com/
PRC_FLEX_RAMP	http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_FLEX_RAMP&market_run_id=DAM&startdatetim e=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1
	IOR I



	http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_FLEX_RAMP&market_run_id=RTPD&startdateti me=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&startdatetim_e=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
	http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_FLEX_RAMP&market_run_id=RTD&baa_grp_id=PACE&startdatetime=20141001T07:00-0000&enddatetime=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 http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_FLEX_RAMP&market_run_id=RTPD&startdateti
PRC_FLEX_RAMP_	me=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1&grp_type=CURR  OR
	http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_FLEX_RAMP&market_run_id=RTD&startdatetim_e=20130919T07:00-0000&enddatetime=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&startdat
	etime=20141001T07:00-0000&enddatetime=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_L MP	http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_CD_INTVL_LMP&startdatetime=20130919T07:00-0000&enddatetime=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&enddatetime=20130920T07:00-0000&version=1&market_run_id=RTM&node=LAPLMG1_7_B2
PRC_CD_SPTIE_L MP	http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_CD_SPTIE_LMP&startdatetime=20130919T07:0 0-0000&enddatetime=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=20130919T07:0 0-0000&enddatetime=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=20160919T07:0 0-0000&enddatetime=20160920T07:00-0000&version=4&market_run_id=RTM&node=LAPLMG1_7_B2
PRC_CD_RTM_FL OWGATE	http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_CD_RTM_FLOWGATE&market_run_id=RTM&ti_id=ALL&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1
PRC_CD_RTM_NO MOGRAM	http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_CD_RTM_NOMOGRAM&market_run_id=RTM&n_omogram_id=ALL&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1
TRANSMISSION	
TRNS_CURR_USA GE	http://oasis.caiso.com/oasisapi/SingleZip?queryname=TRNS_CURR_USAGE&ti_id=ALL&ti_direction=ALL&st_artdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1
1	



	http://oasis.caiso.com/oasisapi/SingleZip?queryname=TRNS_CURR_USAGE&ti_id=ALL&ti_direction=ALL&tr_type=TRNS_AS_IMPORT_IFM&startdatetime=20130919T07:00-0000&enddatetime=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
	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&enddatetime=20130920T07:00-0000&version=1
	http://oasis.caiso.com/oasisapi/SingleZip?queryname=TRNS_ATC&market_run_id=RTPD&ti_id=ALL&ti_direct_ion=ALL&startdatetime=20130919T07:00-0000&enddatetime=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&enddatetime=20130920T07:00-0000&version=1
TRNS_USAGE	http://oasis.caiso.com/oasisapi/SingleZip?queryname=TRNS_USAGE&market_run_id=DAM&ti_id=ALL&ti_dir_ection=ALL&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1
	http://oasis.caiso.com/oasisapi/SingleZip?queryname=TRNS_USAGE&market_run_id=RTPD&ti_id=ALL&ti_di_rection=ALL&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1
	http://oasis.caiso.com/oasisapi/SingleZip?queryname=TRNS_USAGE&market_run_id=DAM&ti_id=ALL&ti_dir_ection=ALL&tr_type=TRNS_AS_IMPORT_IFM&startdatetime=20130919T07:00-0000&enddatetime=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



PRC_MPM_ LMP	http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_LMP&market_run_id=DA_M&grp_type=ALL_APNODES&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1
	OD.
	OR <a href="http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_LMP&amp;market_run_id=DA">http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_LMP&amp;market_run_id=DA</a> M&node=3EMIDIO_6_N001&startdatetime=20130919T07:00-
	0000&enddatetime=20130920T07:00-0000&version=1
	NOTE:
	<ol> <li>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.</li> </ol>
	<ol> <li>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</li> </ol>
	3. The "enddatetime" is referenced only when a node is supplied in the query
PRC_MPM_RTM_LMP	HASP
	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
	OR
	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
	http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_RTM_ LMP&market_run_id=HASP&grp_type=ALL_APNODES&startdatetime=2 0130920T06:00-0000&enddatetime=20130920T07:00-0000&version=2
	http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_RTM_LMP&market_run_id=HASP&node=3EMIDIO_6_N001&startdatetime=20 130919T07:00-0000&enddatetime=20130919T08:00-0000&version=2
	RTPD
	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
	OR  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
	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
	OR 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

	<ol> <li>NOTE:         <ol> <li>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.</li> <li>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</li> </ol> </li> <li>The "enddatetime" is referenced only when a node is supplied in the query</li> <li>Only new version (version=2) introduced as part of Fall 2014 release will include new element LMP_GHG_PRC.</li> </ol>
PRC_MPM_ NOMOGRAM	
PRC_WPM_ NOWOGRAW	http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_NOMOGRAM&market_r un_id=DAM&nomogram_id=ALL&startdatetime=20130919T07:00- 0000&enddatetime=20130920T07:00-0000&version=1
PRC_MPM_RTM_NOMOGRAM	HASP
	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  RTPD  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
PRC_MPM_NOMOGRAM_CMP	http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_NOMOGRAM_CMP&ma_rket_run_id=DAM&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-
	0000&version=1
PRC_MPM_RTM_NOMOGRAM_CMP	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 OR 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 OR 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
PRC_MPM_CNSTR	http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_CNSTR&market_run_id=DAM&ti_id=ALL&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1



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&enddatetime=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&enddatetime=20130920T07:00-0000&version=1
PRC_MPM_CNSTR_CMP	http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_CNSTR_CMP&market_r un_id=DAM&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00- 0000&version=1
	http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_CNSTR_CMP&market_r un_id=HASP&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00- 0000&version=1
	http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_CNSTR_CMP&market_r un_id=RTPD&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00- 0000&version=1
	http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_MPM_CNSTR_CMP&market_r_un_id=RTD&startdatetime=20170213T08:00-0000&enddatetime=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&enddatetime=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&enddatetime=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&enddatetime=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&enddatetime=20170214T08:00-0000&version=1
PRC_GHG_ALLOWANCE	http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_GHG_ALLOWANCE&startdatet ime=20130919T07:00-0000&enddatetime=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&enddatetime=20141002T07:00-0000&version=2 OR



	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	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



OR

0000&version=3&market\_run\_id=RTD&node=LAPLMG1\_7\_B2

OR

http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC\_SPTIE\_LMP&startdatetime=20 160919T07:00-0000&enddatetime=20160919T08:00-0000&version=4&market\_run\_id=RTD&node=LAPLMG1\_7\_B2

OR

http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC\_SPTIE\_LMP&startdatetime=20 160919T07:00-0000&enddatetime=20160920T07:00-0000&version=5&market\_run\_id=DAM&grp\_type=ALL\_APNODES

ΛP

http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC\_SPTIE\_LMP&startdatetime=20 160919T07:00-0000&enddatetime=20160920T07:00-0000&version=5&market\_run\_id=DAM&node=LAPLMG1\_7\_B2

OR

http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC\_SPTIE\_LMP&startdatetime=20 160919T07:00-0000&enddatetime=20160919T08:00-0000&version=5&market\_run\_id=RTPD&grp\_type=ALL\_APNODES

OR

http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC\_SPTIE\_LMP&startdatetime=20 130919T07:00-0000&enddatetime=20130919T08:00-0000&version=5&market\_run\_id=RTPD&node=LAPLMG1\_7\_B2

OR

http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC\_SPTIE\_LMP&startdatetime=20 160919T07:00-0000&enddatetime=20160919T08:00-0000&version=5&market\_run\_id=RTD&grp\_type=ALL\_APNODES

OR

http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC\_SPTIE\_LMP&startdatetime=20 160919T07:00-0000&enddatetime=20160919T08:00-0000&version=5&market\_run\_id=RTD&node=LAPLMG1\_7\_B2

## NOTE:

- 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.
- 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
- 0.3. The "enddatetime" is referenced only when a node is supplied in the query
- 0.4 The v4 version will include the following additional components

LMP\_ENE\_PRC

LMP\_LOSS\_PRC



	LMP_GHG_PRC
PRC_RTM_SCH_CNSTR	RTPD
	http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_RTM_SCH_CNSTR&market_run_id=RTPD&startdatetime=20160919T07:00-0000&enddatetime=20160920T07:00-0000&version=4
	http://oasis.caiso.com/oasisapi/SingleZip?&queryname=PRC_RTM_SCH_CNSTR&market_run_id=RTPD&startdatetime=20190215T08:00-0000&enddatetime=20190216T08:00-0000&constraint_type=DC%20TRANSFER%20DEFINITION&version=4
	RTD
	http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_RTM_SCH_CNSTR&market_run_id=RTD&startdatetime=20160919T07:00-0000&enddatetime=20160920T07:00-0000&version=4
	http://oasis.caiso.com/oasisapi/SingleZip?&queryname=PRC_RTM_SCH_CNSTR&market_run_id=RTD&startdatetime=20190215T08:00-0000&enddatetime=20190216T08:00-0000&constraint_type=DC%20TRANSFER%20DEFINITION&version=4
PRC_DAM_SCH_CNSTR	DAM
	http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_DAM_SCH_CNSTR&market_run_id=DAM&startdatetime=20190101T08:00-0000&enddatetime=20190102T08:00-0000&version=8
	http://oasis.caiso.com/oasisapi/SingleZip?&queryname=PRC_DAM_SCH_CNSTR&market_run_id=DAM&startdatetime=20190215T08:00-0000&enddatetime=20190216T08:00-0000&constraint_type=DC%20TRANSFER%20DEFINITION&version=8
PRC_MPM_DEFAULT_CMP	http://oasis.caiso.com/oasisapi/SingleZip?queryname=
	PRC_MPM_DEFAULT_CMP&market_run_id=DAM &startdatetime=20160919T07:00-0000&enddatetime=20160920T07:00-0000&version=5
	http://oasis.caiso.com/oasisapi/SingleZip?queryname= PRC_MPM_DEFAULT_CMP&market_run_id=RTM &startdatetime=20160919T07:00-0000&enddatetime=20160920T07:00-0000&version=5
PRC_RTM_LAP	http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_RTM_LAP&startdatetime=2017
	OR
	http://oasis.caiso.com/oasisapi/SingleZip?queryname=PRC_RTM_LAP&startdatetime=2017 1020T07:00-0000&enddatetime=20171021T07:00- 0000&version=6&market_run_id=RTM&node=ELAP_PACE-APND
SYSTEM DEMAND	
SLD_FCST_PEAK	http://oasis.caiso.com/oasisapi/SingleZip?queryname=SLD_FCST_PEAK&startdatetime=20 130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1
SLD_FCST	http://oasis.caiso.com/oasisapi/SingleZip?queryname=SLD_FCST&market_run_id=DAM&st artdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1
	http://oasis.caiso.com/oasisapi/SingleZip?queryname=SLD_FCST&market_run_id=2DA&sta_rtdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1

	http://oasis.caiso.com/oasisapi/SingleZip?queryname=SLD_FCST&market_run_id=7DA&sta
	rtdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1
	http://oasis.caiso.com/oasisapi/SingleZip?queryname=SLD_FCST&market_run_id=RTM&ex
	ecution_type=RTD&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-
	0000&version=1
	http://oasis.caiso.com/oasisapi/SingleZip?queryname=SLD_FCST&market_run_id=RTM&ex ecution_type=RTPD&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-
	0000&version=1
	http://oasis.caiso.com/oasisapi/SingleZip?queryname=SLD_FCST&marke
	t run id=ACTUAL&startdatetime=20180203T08:00-
	0000&enddatetime=20180204T08:00-0000&version=1
	0000&enddatetime=20100204100.00-0000&version=1
CLD DEN FOOT	
SLD_REN_FCST	http://oasis.caiso.com/oasisapi/SingleZip?queryname=SLD_REN_FCST&market_run_id=D
	AM&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1
	http://oasis.caiso.com/oasisapi/SingleZip?queryname=SLD_REN_FCST&market_run_id=RT
	PD&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1
	http://oasis.caiso.com/oasisapi/SingleZip?queryname=SLD_REN_FCST&market_run_id=RT
	D&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1
SLD_ADV_FCST	http://oasis.caiso.com/oasisapi/SingleZip?queryname=SLD_ADV_FCST&market_run_id=RT
	PD&startdatetime=20160419T07:00-0000&enddatetime=20160420T07:00-0000&version=4
	OR
	http://oasis.caiso.com/oasisapi/SingleZip?queryname=SLD_ADV_FCST&market_run_id=RT
	D&startdatetime=20160419T07:00-0000&enddatetime=20160420T07:00-0000&version=4
SLD_SF_EVAL_DMD_FCST	http://oasis.caiso.com/oasisapi/SingleZip?queryname=SLD_SF_EVAL_DMD_FCST&granul
	arity=HOURLY&startdatetime=20160419T07:00-0000&enddatetime=20160420T07:00-
	0000&version=4
	http://oasis.caiso.com/oasisapi/SingleZip?queryname=SLD_SF_EVAL_DMD_FCST&granul
	arity=15MIN&startdatetime=20160419T07:00-0000&enddatetime=20160420T07:00-
ENEDOV	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-
	<u>c_zone_name=ALL&amp;scnedule=ALL&amp;standatetime=20130919107:00-</u> 0000&enddatetime=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&enddatetime=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&enddatetime=20130920T07:00-0000&version=2
ENE_MPM	http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_MPM&market_run_id=DAM&st
LIVL_IVIF IVI	artdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1



	OR
	http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_MPM&market_run_id=RTM&ex
	$ecution\_type=HASP\&startdatetime=20130919T07:00-0000\&enddatetime=20130920T07:00-0000\&version=1$
	OR
	http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_MPM&market_run_id=RTM&ex
	ecution_type=RTPD&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1
	http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_MPM&market_run_id=DAM&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&ex
	ecution_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&ex_ecution_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=20130919 T07:00-0000&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=DA_M&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1_
ENE_CB_AWARDS	http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_CB_AWARDS&startdatetime=2 0130919T07:00-0000&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=RT_M&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
THE FIM TRANSFER LIMITS	http://eesia.asia.asia/sasiasi/Giasla-ZiaOasiasiasi/Giasla-ZiaOasiasiasi
ENE_EIM_TRANSFER_LIMITS	http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_EIM_TRANSFER_LIMITS&mar ket_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&mar ket_run_id=RTPD&baa_grp_id=ALL&startdatetime=20141001T07:00-
	0000&enddatetime=20141002T07:00-0000&version=2
	0000&enduatetiine=20141002107.00-0000&veision=2

	http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_EIM_TRANSFER_LIMITS&mar ket_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
	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=RT_PD&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=RT_D&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=201 61001T07:00-0000&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_LO SS&market_run_id=DAM&baa_id=ALL&snapshot_indicator=ALL&startdatetime=2 0161001T07:00-0000&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
ENE_UNCERTAINTY_MV	Snapshot_indicator = T75MIN, T55MIN, T40MIN, DA



	http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_EIM_TRANSFER_TIE&market_run_id=ALL&baa_grp_id=ALL&startdatetime=20141001T07:00-0000&enddatetime=20161002T07:00-0000&version=4
ENE_EIM_TRANSFER_LIMITS_TIE	http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_EIM_TRANSFER_LIMITS_TIE &market_run_id=RTD&baa_grp_id=ALL&startdatetime=20161001T07:00- 0000&enddatetime=20161002T07:00-0000&version=5
	http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_EIM_TRANSFER_LIMITS_TIE &market_run_id=RTPD&baa_grp_id=ALL&startdatetime=20161001T07:00- 0000&enddatetime=20161002T07:00-0000&version=5
ENE_WIND_SOLAR_SUMMARY	
	http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_WIND_SOLAR_ SUMMARY &startdatetime=20161001T07:00- 0000&enddatetime=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&enddatetime=20171002T07:00-0000&version=6
	Snapshot_indicator = T75MIN, T55MIN, T40MIN
ENE_BAA_MKT_EVENTS	http://oasis.caiso.com/oasisapi/SingleZip?queryname=ENE_BAA_MKT_EVENTS&market_run_id=RTD&baa_grp_id=ALL&startdatetime=20181001T07:00-0000&enddatetime=20181002T07:00-0000&version=7
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&enddatetime=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&enddatetime=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&enddatetime=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&enddatetime=20130920T07:00-0000&version=1
	OR  http://oasis.caiso.com/oasisapi/SingleZip?queryname=AS_RESULTS&market_run_id=HAS  P&anc_type=ALL&anc_region=ALL&startdatetime=20130919T07:00- 0000&enddatetime=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&enddatetime=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&enddatetime=20130920T07:00-0000&version=1
CRR	
CRR_CLEARING	http://oasis.caiso.com/oasisapi/SingleZip?queryname=CRR_CLEARING&market_name=AL L&market_term=ALL&time_of_use=ALL&startdatetime=20130919T07:00- 0000&enddatetime=20130920T07:00-0000&version=1
CRR_INVENTORY	http://oasis.caiso.com/oasisapi/SingleZip?queryname=CRR_INVENTORY&market_name=A LLOC_AN_2013_S03_TR&market_term=ALL&time_of_use=ALL&startdatetime=20130924T 07:00-0000&enddatetime=20130925T07:00-0000&version=1
CRR_AGG_REV_ADJ	http://oasis.caiso.com/oasisapi/SingleZip?queryname=CRR_AGG_REV_ADJ&trans_cnstr_id=ALL&startdatetime=20181001T07:00-0000&enddatetime=20181002T07:00-0000&version=7
PUBLICBIDS	
PUB_BID	http://oasis.caiso.com/oasisapi/GroupZip?groupid=PUB_RTM_GRP&startdatetime=2013091 9T07:00-0000&version=1 (for RTM)
	OR
	http://oasis.caiso.com/oasisapi/GroupZip?groupid=PUB_RTM_GRP&startdatetime=20160919T07:00-0000&version=2 (for RTM)
	Note: version 2 will provide GHG product.
	OR
	http://oasis.caiso.com/oasisapi/GroupZip?groupid=PUB_DAM_GRP&startdatetime=201309 19T07:00-0000&version=1 (for DAM)
PUB_CB_BID	http://oasis.caiso.com/oasisapi/GroupZip?groupid=PUB_CB_DAM_GRP&startdatetime=201 30919T07:00-0000&version=1 (for DAM)
	http://oasis.caiso.com/oasisapi/GroupZip?groupid=PUB_CB_DAM_GRP&startdatetime=20130919T07:00-0000&version=2 (for DAM)
PUB_CRR_BID	http://oasis.caiso.com/oasisapi/GroupZip?groupid=PUB_CRR_BID_SEASONAL_GRP&start_datetime=20130919T07:00-0000&version=1
	http://oasis.caiso.com/oasisapi/GroupZip?groupid=PUB_CRR_BID_MONTHLY_GRP&startd atetime=20130919T07:00-0000&version=1
	http://oasis.caiso.com/oasisapi/GroupZip?groupid=PUB_CRR_BID_SEASONAL_GRP&startdatetime=20180919T07:00-0000&version=2
	http://oasis.caiso.com/oasisapi/GroupZip?groupid=PUB_CRR_BID_MON THLY_GRP&startdatetime=20180919T07:00-0000&version=2
	Note: Version 2 will include HEDGE_TYPE and TRANSACTION_TYPE elements



PUB_CSP_OFFER_SET	http://oasis.caiso.com/oasisapi/GroupZip?groupid=PUB CSP OFFER SET ANNUAL GR P&startdatetime=20170101T08:00-0000&version=1
	http://oasis.caiso.com/oasisapi/GroupZip?groupid=PUB CSP OFFER SET MONTHLY G RP&startdatetime=20170102T08:00-0000&version=1
	http://oasis.caiso.com/oasisapi/GroupZip?groupid=PUB_CSP_OFFER_SET_INTRAMONTH LY_GRP&startdatetime=20170110T08:00-0000&version=1
ATLAS	
ATL_PNODE	http://oasis.caiso.com/oasisapi/SingleZip?queryname=ATL_PNODE&Pnode_id=12THST_6_N101&Pnode_type=ALL&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1
ATL_APNODE	http://oasis.caiso.com/oasisapi/SingleZip?queryname=ATL_APNODE&APnode_type=ALL&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1
ATL_LDF	http://oasis.caiso.com/oasisapi/SingleZip?queryname=ATL_LDF&apnode_id=AGRICO_6_P L3N5_APND&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00- 0000&version=1
ATL_LAP	http://oasis.caiso.com/oasisapi/SingleZip?queryname=ATL_LAP&APnode_type=ALL&startd atetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1
ATL_RESOURCE	http://oasis.caiso.com/oasisapi/SingleZip?queryname=ATL_RESOURCE&resource_id=8MIL E_2_V200LD&agge_type=ALL&resource_type=ALL&startdatetime=20130919T07:00- 0000&enddatetime=20130920T07:00-0000&version=1
ATL_HUB	http://oasis.caiso.com/oasisapi/SingleZip?queryname=ATL_HUB&startdatetime=20130919T 07:00-0000&enddatetime=20130920T07:00-0000&version=1
ATL_PNODE_MAP	http://oasis.caiso.com/oasisapi/SingleZip?queryname=ATL_PNODE_MAP&pnode_id=KEAR_NY_7_KY2D&startdatetime=20130919T07:00-0000&enddatetime=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&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1
ATL_RUC_ZONE_MAP	http://oasis.caiso.com/oasisapi/SingleZip?queryname=ATL_RUC_ZONE_MAP&startdatetim e=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1
ATL_TAC_AREA	http://oasis.caiso.com/oasisapi/SingleZip?queryname=ATL_TAC_AREA_MAP&startdatetim e=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1
ATL_TIEPOINT	http://oasis.caiso.com/oasisapi/SingleZip?queryname=ATL_TIEPOINT&resource_type=ALL
ATL_TI	http://oasis.caiso.com/oasisapi/SingleZip?queryname=ATL_Tl&Ti_type=ALL&wecc_path=ALL&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1
ATL_PUB	http://oasis.caiso.com/oasisapi/SingleZip?queryname=ATL_PUB&market_run_id=DAM&oas is_section=ALL&status=ALL&atlpubversion=ALL&startdatetime=20130919T07:00- 0000&enddatetime=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&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1
ATL_OSM	http://oasis.caiso.com/oasisapi/SingleZip?queryname=ATL_OSM&msg_severity=ALL&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1
ATL_PEAK_ON_OFF	http://oasis.caiso.com/oasisapi/SingleZip?queryname=ATL_PEAK_ON_OFF&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=1
ATL_CBNODE	http://oasis.caiso.com/oasisapi/SingleZip?queryname=ATL_CBNODE&st artdatetime=20130919T07:00-0000&enddatetime=20130920T07:00- 0000&version=2

ATL_PRC_CORR_MSG	
ATE_T NC_CONN_WING	http://oasis.caiso.com/oasisapi/SingleZip?queryname=ATL_PRC_CORR_MSG&startdatetime=20130919T07:00-0000&version=3
	http://oasis.caiso.com/oasisapi/SingleZip?queryname=ATL_PRC_CORR_MSG&market_run_id=DAM&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=3
	Note: market_run_id are DAM, RTD, RTPD, RUC
ATL_SP	http://oasis.caiso.com/oasisapi/SingleZip?queryname=ATL SP&startdatetime=20130919T07:00-0000&enddatetime=20130920T07:00-0000&version=3
	http://oasis.caiso.com/oasisapi/SingleZip?queryname=ATL_SP&BAA_ID=CISO&startdatetime=20130919T07:00-0000&version=3
ATL_BAA_TIE	http://oasis.caiso.com/oasisapi/SingleZip?queryname=ATL_BAA_TIE&sta rtdatetime=20130919T07:00-0000&enddatetime=20130920T07:00- 0000&version=3
	http://oasis.caiso.com/oasisapi/SingleZip?queryname=ATL_BAA_TIE&FR OM_BAA_ID=AZPS&TO_BAA_ID=ARIZ&startdatetime=20130919T07:00 -0000&enddatetime=20130920T07:00-0000&version=3
ATL_SP_TIE	http://oasis.caiso.com/oasisapi/SingleZip?queryname=ATL_SP_TIE&start datetime=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-
ATL_ISL_TIE	0000&version=3 http://oasis.caiso.com/oasisapi/SingleZip?queryname=
	<u> map.//odolo.odin/odolodp/olitylezip: quel yname–</u>



Į.	<del>-</del>
	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_L
	ST&startdatetime=20170919T07:00-
	0000&enddatetime=20170920T07:00-0000&version=4
	or
	http://oasis.caiso.com/oasisapi/SingleZip?queryname=ATL_GEN_CAP_L ST&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_L ST&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	Report XML Names
5. 6 a.p. 5	maparta m Graup	Туре	
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

	T	T	
DAM_MPM_SD_PRC_G RP	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_CM P 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_FLOWG ATE_CMP_HASP PRC_MPM_RTM_FLOWG ATE_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_FLOWGA TE_CMP_RTPD PRC_MPM_RTM_FLOWGA TE_RTPD PRC_MPM_RTM_NOMOGR AM_CMP_RTPD PRC_MPM_RTM_NOMOGR AM_RTPD
PUB_CRR_BID_SEASO NAL_GRP	Congestion Revenue Rights (CRR) Public Bids From the Annual Auction	SEASONA L	PUB_CRR_BID
PUB_CRR_BID_MONTH LY_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.	INTRAMO NTHLY	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)
CRR_AGG_REV_ADJ_G RP	CRR Aggregated Revenue Adjustment data	NA	CRR_AGG_REV_ADJ ( Note: Hourly CRR values are aggregated over all CRR IDs will be cached)
ENE_RES_UPL_GRP	Resource-Specific Uplift	NA	ENE_RES_UPL ( Note: The entire month data will be cached.)
ENE_ZNL_UPL_GRP	Zonal Uplift Payment	NA	ENE_ZNL_UPL ( Note: The entire month data will be cached.)
ENE_OIC_GRP	Operator-Initiated Commitment	NA	ENE_OIC ( Note: The entire month data will be cached.)

# 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=20130919 T07:00-0000&version=1
DAM_SPTIE_LMP_GRP	http://oasis.caiso.com/oasisapi/GroupZip?groupid=DAM_SPTIE_LMP_GRP&startdatetime=20 130919T07:00-0000&version=3 OR

Group ID	Example URL for XML Download
313up 13	http://oasis.caiso.com/oasisapi/GroupZip?groupid=DAM_SPTIE_LMP_GRP
	&startdatetime=20160919T07:00-0000&version=4
	OR
	http://oocis.coico.com/oocicani/Croup7in2groupid=DAM_CDTIE_LAND_CDD
	http://oasis.caiso.com/oasisapi/GroupZip?groupid=DAM_SPTIE_LMP_GRP
	<u>&amp;startdatetime=20160919T07:00-0000&amp;version=5</u>
RUC_LMP_GRP	http://oasis.caiso.com/oasisapi/GroupZip?groupid=RUC_LMP_GRP&startdatetime=20130919
	T07:00-0000&version=1 http://oasis.caiso.com/oasisapi/GroupZip?groupid=HASP_LMP_GRP&startdatetime=2013091
HASP_LMP_GRP	9T07:00-0000&enddatetime=20130919T08:00-0000&version=1
	OB
	<u>OR</u>
	http://oasis.caiso.com/oasisapi/GroupZip?groupid=HASP_LMP_GRP&startdatetime=2013091
	9T07:00-0000&enddatetime=20130919T08:00-0000&version=3
	Note: Version 3 response zip file will include separate file for each price
	component
	<u>component</u>
RTPD LMP GRP	http://oasis.caiso.com/oasisapi/GroupZip?groupid=RTPD_LMP_GRP&startdatetime=2013091
	9T07:00-0000&enddatetime=20130919T08:00-0000&version=1
	OR
	http://oasis.caiso.com/oasisapi/GroupZip?groupid=RTPD_LMP_GRP&startdatetime=2013091
	9T07:00-0000&enddatetime=20130919T08:00-0000&version=3
	Note: Version 3 response zip file will include separate file for each price
	<u>component</u>
RTPD_SPTIE_LMP_GRP	http://oasis.caiso.com/oasisapi/GroupZip?groupid=RTPD_SPTIE_LMP_GRP&startdatetime=2
	0130919T07:00-0000&enddatetime=20130919T08:00-0000&version=3
	OR
	http://oasis.caiso.com/oasisapi/GroupZip?groupid=RTPD_SPTIE_LMP_GRP&startdatetime=2
	0160919T07:00-0000&enddatetime=20160919T08:00-0000&version=4
	OR
	http://oasis.caiso.com/oasisapi/GroupZip?groupid=RTPD_SPTIE_LMP_GRP&startdatetime=2
	0160919T07:00-0000&enddatetime=20160919T08:00-0000&version=5
	Note: Version 5 response zip file will include separate file for each price
DTM LMD ODS	<pre>component http://oasis.caiso.com/oasisapi/GroupZip?groupid=RTM_LMP_GRP&amp;startdatetime=20130919</pre>
RTM_LMP_GRP	T07:00-0000&enddatetime=20130919T08:00-0000&version=1
	OR
	http://oasis.caiso.com/oasisapi/GroupZip?groupid=RTM_LMP_GRP&startdatetime=20130919 T07:00-0000&enddatetime=20130919T08:00-0000&version=3
	101.00 00000010000010100.00 00000010100100



Group ID	Example URL for XML Download
	Note: Version 3 response zip file will include separate file for each price
	component
RTD_SPTIE_LMP_GRP	http://oasis.caiso.com/oasisapi/GroupZip?groupid=RTD_SPTIE_LMP_GRP&startdatetime=20
	130919T07:00-0000&enddatetime=20130919T08:00-0000&version=3
	OR
	http://oasis.caiso.com/oasisapi/GroupZip?groupid=RTD_SPTIE_LMP_GRP&startdatetime=20
	OR
	http://oasis.caiso.com/oasisapi/GroupZip?groupid=RTD_SPTIE_LMP_GRP&startdatetime=20
	160919T07:00-0000&enddatetime=20160919T08:00-0000&version=5
	Note: Version 5 response zip file will include separate file for each price component
	http://oasis.caiso.com/oasisapi/GroupZip?groupid=DAM_PRC_AS_GRP&startdatetime=20130
DAM_PRC_AS_GRP	919T07:00-0000&version=1
HASP_PRC_AS_GRP	http://oasis.caiso.com/oasisapi/GroupZip?groupid=HASP_PRC_AS_GRP&startdatetime=2013 0919T07:00-0000&version=1
RTM_PRC_AS_GRP	http://oasis.caiso.com/oasisapi/GroupZip?groupid=RTM_PRC_AS_GRP&startdatetime=20130 919T07:00-0000&version=1
DAM_TRNS_GRP	http://oasis.caiso.com/oasisapi/GroupZip?groupid=DAM_TRNS_GRP&startdatetime=2013091 9T07:00-0000&version=1
HASP_TRNS_GRP	http://oasis.caiso.com/oasisapi/GroupZip?groupid=HASP_TRNS_GRP&startdatetime=201309 19T07:00-0000&version=1
RTPD_TRNS_GRP	http://oasis.caiso.com/oasisapi/GroupZip?groupid=RTPD_TRNS_GRP&startdatetime=201309 19T07:00-0000&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=201309 19T07:00-0000&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=20130919T_07:00-0000&version=1
HASP_AS_GRP	http://oasis.caiso.com/oasisapi/GroupZip?groupid=HASP_AS_GRP&startdatetime=20130919 T07:00-0000&version=1
RTM_AS_GRP	http://oasis.caiso.com/oasisapi/GroupZip?groupid=RTM_AS_GRP&startdatetime=20130919T_07:00-0000&version=1
PUB_DAM_GRP	http://oasis.caiso.com/oasisapi/GroupZip?groupid=PUB_DAM_GRP&startdatetime=20130919 T07:00-0000&version=1
PUB_RTM_GRP	http://oasis.caiso.com/oasisapi/GroupZip?groupid=PUB_RTM_GRP&startdatetime=20130919 T07:00-0000&version=1
CURR_LMP_GRP	http://oasis.caiso.com/oasisapi/GroupZip?groupid=CURR_LMP_GRP&startdatetime=2013091 9T07:00-0000&version=1
DAM_SD_PRC_GRP	http://oasis.caiso.com/oasisapi/GroupZip?groupid=DAM_SD_PRC_GRP&startdatetime=20130 919T07:00-0000&version=1
HASP_SD_PRC_GRP	http://oasis.caiso.com/oasisapi/GroupZip?groupid=HASP_SD_PRC_GRP&startdatetime=2013 0919T07:00-0000&version=1

Group ID	Example URL for XML Download
RTM_SD_PRC_GRP	http://oasis.caiso.com/oasisapi/GroupZip?groupid=RTM_SD_PRC_GRP&startdatetime=20130
DUD OD DAM ODD	919T07:00-0000&version=1 http://oasis.caiso.com/oasisapi/GroupZip?groupid=PUB_CB_DAM_GRP&startdatetime=20130
PUB_CB_DAM_GRP	919T07:00-0000&version=1
CB_REF_PRC_GRP	http://oasis.caiso.com/oasisapi/GroupZip?groupid=CB_REF_PRC_GRP&startdatetime=20130 919T07:00-0000&version=1
	http://oasis.caiso.com/oasisapi/GroupZip?groupid=CB_REF_PRC_GRP&st artdatetime=20130919T07:00-0000&version=3
CB_CLR_DAM_GRP	http://oasis.caiso.com/oasisapi/GroupZip?groupid=CB_CLR_DAM_GRP&startdatetime=20130 919T07:00-0000&version=1
CB_NODAL_LMT_GRP	http://oasis.caiso.com/oasisapi/GroupZip?groupid=CB_NODAL_LMT_GRP&resultformat=5&st artdatetime=20130919T07:00-0000&version=1
DAM_FLEX_RAMP_GRP	http://oasis.caiso.com/oasisapi/GroupZip?groupid=DAM_FLEX_RAMP_GRP&startdatetime=2 0130919T07:00-0000&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=2 0130919T07:00-0000&version=1
DAM_MPM_LMP_GRP	http://oasis.caiso.com/oasisapi/GroupZip?groupid=DAM_MPM_LMP_GRP&startdatetime=201 30919T07:00-0000&version=1
HASP_MPM_LMP_GRP	http://oasis.caiso.com/oasisapi/GroupZip?groupid=HASP_MPM_LMP_GRP&startdatetime=20 130919T07:00-0000&enddatetime=20130919T08:00-0000&version=1
RTPD_MPM_LMP_GRP	http://oasis.caiso.com/oasisapi/GroupZip?groupid=RTPD_MPM_LMP_GRP&startdatetime=20 130919T07:00-0000&enddatetime=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&startdatetim e=20130919T07:00-0000&version=1
RTPD_MPM_SD_PRC_GRP	http://oasis.caiso.com/oasisapi/GroupZip?groupid=RTPD_MPM_SD_PRC_GRP&startdatetim e=20130919T07:00-0000&version=1
PUB_CRR_BID_SEASONAL _GRP	http://oasis.caiso.com/oasisapi/GroupZip?groupid=PUB_CRR_BID_SEASONAL_GRP&startd_atetime=20130919T07:00-0000&version=1
	http://oasis.caiso.com/oasisapi/GroupZip?groupid=PUB_CRR_BID_SEASONAL_GRP&startd_atetime=20180919T07:00-0000&version=2
	Note: Version 2 will include HEDGE_TYPE and TRANSACTION_TYPE_elements http://oasis.caiso.com/oasisapi/GroupZip?groupid=PUB_CRR_BID_MTHLY_GRP&startdateti
PUB_CRR_BID_MTHLY_GR P	me=20130919T07:00-0000&version=1
	http://oasis.caiso.com/oasisapi/GroupZip?groupid=PUB_CRR_BID_MTHLY_GRP&startdateti me=20180919T07:00-0000&version=2
AGGR OUTAGE SCH GPD	Note: Version 2 will include HEDGE_TYPE and TRANSACTION_TYPE_elements http://oasis.caiso.com/oasisapi/GroupZip?groupid=AGGR_OUTAGE_SCH_GRP&startdatetim
	<u>e=20130919T07:00-0000&amp;version=1</u>
PUB_CSP_OFFER_SET_AN NUAL_GRP	http://oasis.caiso.com/oasisapi/GroupZip?groupid=PUB_CSP_OFFER_SET_ANNUAL_GRP& startdatetime=20170101T08:00-0000&version=1
PUB_CSP_OFFER_SET_M ONTHLY_GRP	http://oasis.caiso.com/oasisapi/GroupZip?groupid=PUB_CSP_OFFER_SET_MONTHLY_GRP &startdatetime=20170102T08:00-0000&version=1



Group ID	Example URL for XML Download
	http://oasis.caiso.com/oasisapi/GroupZip?groupid=PUB_CSP_OFFER_SET_INTRAMONTHL Y_GRP&startdatetime=20170110T08:00-0000&version=1
RTM_LAP_GRP	http://oasis.caiso.com/oasisapi/GroupZip?groupid=RTM_LAP_GRP&startdatetime=20171019 T07:00-0000&version=6
CRR_AGG_REV_ADJ_GRP	http://oasis.caiso.com/oasisapi/GroupZip?groupid=CRR_AGG_REV_ADJ_GRP&startdatetime =20181020T07:00-0000&version=7
L:\t\t_0_0: L_0:\t	http://oasis.caiso.com/oasisapi/GroupZip?groupid=ENE_RES_UPL_GRP&startdatetime=2019 0101T08:00-0000&version=8
	http://oasis.caiso.com/oasisapi/GroupZip?groupid=ENE_ZNL_UPL_GRP&startdatetime=2019 0101T08:00-0000&version=8
	http://oasis.caiso.com/oasisapi/GroupZip?groupid=ENE_OIC_GRP&startdatetime=20190101T_08:00-0000&version=8



# 9. Versioning and Namespace domain reference

With the GMT release, the namespace domain is changing from the environment specific URL to use <a href="www.caiso.com/soa/\*.xsd">www.caiso.com/soa/\*.xsd</a>. 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/OASISCRRPublicBid_v1.xsd	2	20181001
1.4. // ' ' / /OAGIGNE	1	20121201
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/OASISReport_v7.xsd	7	20181001



http://www.caiso.com/soa/OASISReport_v8.xsd	8	20190101
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	
OASISCRRPublicBid_v2.xsd	Added TRANSACTION_TYPE and HEDGE_TYPE elements	
OASISReport_v5.xsd	Added new reports for Data Release Reports Projects  1. EIM Transfer Limits By Tie	
	Wind and Solar Summary	
	MPM Default Competitive Path Assessment     List	
OASISMaster_v3.xsd	Added New API's for Atlas Reports  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  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.	



Schema File Name	Change Description
OAGIGICEDOIL VI.AGG	Fall 2018 Release – Added new services for BAA Market Events and CRR Aggregated Revenue Adjustment
C/tole/topolt_vo.xod	2019 Independent Release – Added new services for Resource- Specific Uplift, Zonal Uplift, Operator-Initiated Commitment, and Day- Ahead Schedule Constraint Prices

### 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&enddatetime=20130311T07:00-0000&version=1

HE03 is skipped

#### Long day

HE 25 is the repeating hour