

Public Market Data Universe Class Descriptions & Usage

The Public Market Data universe (a logical grouping of related data) is designed to give users access to prices, price version history, mw loads and published rates. A short description of each class and subclass is provided below as a guide to use this universe. For a detailed description of each object please refer to the Public Market Data list of Classes and Objects.

Market Solutions Class

The Market Solutions class provides the Zonal, Generator and Ancillary Services prices as well as Load values where appropriate by Market Type. Users can query using appropriate dimensions from the Location class and either the GMT Date Time class or the Eastern Date Time class. All of the objects within the subclasses of the Market Solutions class may be combined together in one query. However, these objects may not be combined in the same query with any of the objects from any of the other classes - except for those objects within the Date Time classes, and the Location class, as stated above. The latest price version will be returned for all queries in this class.

Market Solutions - Day Ahead Market (DAM)

This class contains data produced by SCUC on an hourly time grain. The objects in this class are identified uniquely by a combination of Location and a Date / Time. The time associated with the objects is Hour Beginning.

Market Solutions - Real Time Commitment (RTC)

This class contains objects produced from data by RTC. The objects in this class are identified uniquely by a combination of Location and a Date / Time dimension. Users can chose the time associated with the objects from either RTC Begin Time Stamp or RTC End Time Stamp.

Market Solutions - Real Time Dispatch (RTD)

This class contains data produced by RTD. The objects in this class are identified uniquely by a combination of Location and a Date / Time dimension. Users can chose the time associated with the objects from either RTD Begin Time Stamp or RTD End Time Stamp.

Market Solutions - Real Time Dispatch Time Weighted and Integrated

This class contains data produced by RTD integrated to an hour. The objects in this class are identified uniquely by a combination of Location and a Date /Time dimension. The time associated with the objects is Hour Beginning.

Advisory Solutions Class

The Advisory Solutions class contains the forward looking data. Users will need to join this data with the Location and Date Time dimensions and select either an Operating Time or a Run Time associated with an Advisory Solution. If the run time is used as a condition, all prices that were created during that run will be displayed. If the operating interval is used as a condition all prices created for (prior) that Interval will be displayed. In the result set any price that has the Run time equal to the Operating interval is the binding price for

that interval. The Advisory Solutions class and subclasses can not be joined to other fact classes.

Advisory Solutions RTC Advisory

The advisory solutions RTC advisory class contains the forward looking prices produced by RTC. . The objects in this class are identified uniquely by a combination of Location and a Date /Time dimension along with the Run Time and Operating Interval objects.

Advisory Solutions DAM Load Forecast

The advisory solutions DAM load forecast class contains the forward looking load forecast produced each day and used by SCUC. The objects in this class are identified uniquely by a combination of Location and a Date /Time dimension along with the SCUC Run Day and the DAM Operating Day objects.

Price Version History Class

The Price Version History class contains the versioned history of prices by Market type and sub classes of price type. Each price type class (generator, zonal and ancillary services prices) contains additional details to provide history. The Price Effective Start and Price Effective End which indicate at what time the price was posted to and visible as the latest price. The Price State indicates if the price is Initial, Reposted or Corrected. The latest price Version Indicator flags the latest price. The Price Version History class and subclasses is joined with the Date Time and Location classes and can not be joined to other fact classes.

Grid Data Class

The Grid Data class contains information pertaining to the physical operation of the power grid. The Constraints and Flows class and subclasses can not be joined with other classes in the universe with the exception of the Date Time classes.

Grid Data - Constraints Class

The Constraints Class contains the Facility contingency type and constraint cost by market. Users will query in conjunction with the Date Time class to obtain results. For DAM constraints Start Hour will be required and for RTD queries either the begin or end time stamp (RTD) will be required.

Grid Data – RTD Interface Flows Class

The RTD Interface Flows class contains the Real Time actual flows. Users can query using the Date Time dimensions, selecting either begin or end time stamp to be displayed for each interval.

Rates Class

The rate class contains the TSC NTAC, Schedule 1 and 2 rates. Each of the subclasses will be joined to the Date Time classes and can not be joined to other fact classes.

