New York Independent System Operator Decision Support System

List of Universes, Classes, and Objects

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Universe: Cust Sttlmt - Loads

This universe provides access to customer settlements data for NYISO Load Serving Entities (internal energy and ancillary services purchases from the NYISO administered markets). It contains data that includes: required billing determinants (i.e. load, price, etc.), settlement calculation results (currently balancing market energy settlements), and other related data. It provides users with the ability to analyze this data in an ad-hoc fashion using a wide variety of attributes (i.e. by organization, LSE, load bus, time period, time interval, zone, sub-zone, billing version, etc.). Data in the universe can be configured for custom on-line reporting and analysis, to support participant invoice reconciliation processes, and for download to local file.

Class: Time

Dimensional data which describes date and time data elements; includes month, day, hour, and SCD sub-classes.

Object Name	Object Description

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Class: Month

Dimensional data which describes the following year, quarter, and month time intervals (month name, month name abbreviation, quarter number, year number, etc.).

Object Name	Object Description
Month Name	Month Name represents the name of the month (e.g. January, February)
Month Name Abbrev	Month Name Abbreviation is a set of characters representing a common abbreviation of the name of the month (e.g. JAN, FEB)
Month of Year	Month of Year represents the numerical representation of the month (e.g. January = 01, February = 02)
Month Stamp	Month Stamp is a date representing the month in a MM/01/YYYY format.
Month Year Tag	Month Year Tag represents the month in a mmm-YYYY format.
Quarter Number	Quarter Number represents the numerical representation of the quarter of the year the month falls in (e.g. January = 1, February = 1)
Year Number	Year Number is a number representing the year (YYYY).
Interval Start Month (GMT)	

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Class: Day

Dimensional data which describes day-level time descriptions (day of month, day of week, weekend indicator, holiday indicator, etc.).

Object Name	Object Description
Interval Start Day (Eastern)	101 - Interval Start Day (Eastern) is a date representing the starting day of the interval (MM/DD/YYYY), expressed in Eastern prevailing time
Interval Start Day (GMT)	Interval Start Day (GMT) is a date representing the starting day of the interval (MM/DD/YYYY), expressed in greenwich mean time
Interval End Day (GMT)	Interval End Day (GMT) is a date representing the ending day of the interval (MM/DD/YYYY), expressed in greenwich mean time
Day of Month	Day of Month is a number representing the day of the month (values are from 1 to 31).
Day Name	Day Name represents the name of the day (e.g. Sunday, Monday)
Day of Week	Day of Week is a number representing the day in the week (Sunday=1, Monday=2).
Holiday Ind	Holiday Indicator is a character representing whether or not the day is a holiday (values are Y or N).
Weekday Ind	Weekday Indicator is a character representing whether or not the day is a weekday (Monday-Friday)
Weekend Ind	Weekend Indicator is a character representing whether or not the day is a weekend day (Saturday or Sunday) (values are Y or N).
EST-EDT Time Switch Ind	Weekend Indicator is a character representing whether or not the day is a weekend day (Saturday or Sunday) (values are Y or N).
Time Zone	
Capability Period	Capability Period represents the capability period that the day falls in (either Winter or Summer)
Julian Billing Date	Julian Billing Date is a number that represents the billing date (in numerical format).
Invoice Day Out Scheduled Ind	
Payment Due Date Ind	Weekday Indicator is a character representing whether or not the day is a weekday (Monday-Friday) (values are Y or N).

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Class: Hour

Dimensional data which describes hour-level time descriptions (interval start hour (eastern)).

Object Name	Object Description
Interval Start Hour (Eastern)	102 - Interval Start Hour (Eastern) is a number representing the starting hour for the interval (hour beginning 0-23), expressed in Eastern prevailing time
DA Eastern Hour Stamp Tag	
DT Eastern Hour Stamp Tag	
Date Hour (Eastern)	
Date Hour (GMT)	

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Class: SCD

Dimensional data which describes SCD-level time descriptions (i.e. interval start minute, interval start second, SCD interval seconds, etc.).

Object Name	Object Description
Interval Start Minute	Interval Start Minute is a number representing the starting minute of the interval (0-59)
Interval Start Second	Interval Start Second is a number representing the starting second of the interval (0-59)
Interval Start Date/Time (Eastern)	Interval Start Date (Eastern) is a date representing the starting date/time (MM/DD/YYYY HH:MM:SS AM) of the interval, expressed in Eastern prevailing time
Interval Start Date/Time (GMT)	Interval Start Date (GMT) is a date representing the starting date/time (MM/DD/YYYY HH:MM:SS am) of the interval, expressed in greenwich mean time
SCD Interval Seconds	SCD Interval Seconds is a number representing the number of seconds in the SCD interval
SCD Interval End Date	
Created PTS Interval Ind	
DA Eastern Time Stamp Tag	
DT Eastern Time Stamp Tag	
Dispatch Type Code	
Dispatch Type Description	Dispatch Type Description represents the reason for a generator's dispatch, whether a normal dispatch, reserve pickup, backup dispatch mode, or max gen pickup
Reserve Pickup Ind	Reserve Pick Up Indicator is an character which indicates whether the SCD interval was initiated as a reserve pickup.

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Class: Invoice Version

Dimensional data which describes invoice versions (billing day, invoice version #, invoice date, etc.).

Object Name	Object Description
Invoice Billing Day	Invoice Billing Day is a date representing the operation / trade day the billing data is for.
Invoice Billing Run Date	Invoice Billing Run Date is the date representing the date / time the Invoice Version was created.
Invoice Version Number	Invoice Version Number is a number representing the version for an invoice; a version number =0 represent the current set of un-invoiced settlement data; invoice version numbers > 0 represent billed invoice settlement data.
Invoice Billing Month	Invoice Billing Month is a date representing the month the billing data is for.
Invoice Date	Invoice Date is a date representing the date / time the invoice was posted.
Stlmnt Type Desc	Settlement Type Description represents the reason the settlement interval is being invoiced on the given invoice (values are Initial Settlement, Rebill, 4 Month Settlement, 8 Month Settlement, 12 Month Settlement, 24 Month Settlement).
Earliest Version Ind	Earliest Version Indicator is a character representing whether or not the given invoice version is the earliest (initial) version for the given billing month (values are Y or N).
Latest Version Ind	Latest Version Indicator is a character representing whether or not the given invoice version is the latest (most current) version (invoiced or not) for the given billing month (values are Y or N).
Invoice Posted Ind	Invoice Posted Indicator is a character representing whether or not the given invoice has been posted for customer access (values are Y or N).
Latest Invoiced Version Ind	Latest Invoiced Version Indicator is a character representing whether or not the given invoice version is the latest (most current) version that has been invoiced for the given billing month (values are Y or N).
Sortable Invoice Version Number	
Billing Version Update Date	Billing Version Update Date is a date representing the day the given billing version was captured into the NYISO DSS.

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Class: Zone / Subzone

Dimensional data which describes zones and subzones (zone name, zone PTID, subzone name, subzone PTID, external zone indicator, etc.).

Object Name	Object Description
Zone PTID	Zone PTID is a number representing the unique point identifier for a zone.
Zone Name	Zone Name represents the full name of the zone
Zone Active Ind	Zone Active Indicator is a character representing whether or not the zone is active in the NYISO marketplace (values are Y or N).
Zone Ext Ind	Zone External Indicator is a character representing whether or not the given zone is external to the NY control area (values are Y or N).
Subzone PTID	Subzone PTID is a number representing the unique point identifier for a subzone.
Subzone Name	Subzone Name represents the full name of the subzone
Subzone ConEd Ind	"Subzone Consolidated Edison Indicator is a character indicating if the subzone, which contains the load bus representing the sink for the given transaction contract, is used in the Consolidated Edison calculation (values are Y or N).
Subzone Active Ind	Subzone Active Indicator is a character representing whether or not the subzone is active in the NYISO marketplace (values are Y or N).
Subzone Meter Authority Name	
Subzone Submit Data Ind	

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Class: Organization

Dimensional data which describes the organization responsible for a load serving entity(s) / load bus(es) (organization name, organization type indicator, etc.); contains Organization Contact Info and Organization Bid Indicators sub-classes.

Object Name	Object Description
Org Name	100 - Organization Name represents the name of the given organization, which is responsible for the given load bus.
Org Tariff Signed Ind	Organization Tariff Signed Indicator is a character representing whether or not the organization has signed the NYISO Market Services Tariff (MST), and/or the NYISO Open Access Transmission Tariff (OATT)
Org Type Desc	Organization Type Description represents the type of the organization.
Org Active Ind	Organization Active Indicator is a character representing whether or not the organization is active in the NYISO marketplace (values are Y or N).
Org Qual Ind	Organization Qualified Indicator is a number which represents whether the organization is a qualified NYISO billing organization (values are Y or N).
Org Agreement Ref No	

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Class: Organization Contact Info

Dimensional data which describes contact information for the organization responsible for a load serving entity(s) / load bus(es) (organization address lines (1-5), organization contact name, organization email address, etc.).

Object Name	Object Description
Org Contact Name	Organization Contact Name represents the name of the official contact person for the organization
Org Address Line 1	Organization Address Line 1 represents the first line of the mail address of the offical contact person for the organization
Org Address Line 2	Organization Address Line 2 represents the second line of the mail address of the offical contact person for the organization
Org Address Line 3	Organization Address Line 3 represents the third line of the mail address of the offical contact person for the organization
Org Address Line 4	Organization Address Line 4 represents the fourth line of the mail address of the offical contact person for the organization
Org Address Line 5	Organization Address Line 5 represents the fifth line of the mail address of the offical contact person for the organization
Org Email Address	Organization Email Address represents the email address of the offical contact person for the organization
Org Fax #	Organization Fax # represents the fax number of the official contact person for the organization
Org Pager #	Organization Pager # represents the pager number of the official contact person for the organization
Org Primary Contact Phone #	Organization Primary Contact Phone # represents the primary telephone number of the official contact person for the organization
Org Secondary Contact Phone #	Organization Secondary Contact Phone # represents the secondary telephone number of the official contact person for the organization

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Class: Organization Bid Indicators

Dimensional data which describes the bidding approvals/limits determined by NYSIO for the organization responsible for a load serving entity(s) / load bus(es) (DAM generation bid indicator, load bid indicator, virtual bid limit, etc.).

Object Name	Object Description
Org DAM Gen Bid Ind	Organization Day Ahead Market Generation Bid Indicator represents whether or not the organization is approved for Day Ahead Market generation bidding (values are Y or N).
Org DAM Trans Cust Bid Ind	Organization Day Ahead Market Transmission Customer Bid Indicator represents whether or not the organization is approved for Day Ahead Market transmission customer bidding (values are Y or N).
Org HAM Gen Bid Ind	Organization Hour Ahead Market Generation Bid Indicator represents whether or not the organization is approved for Hour Ahead Market generation bidding (values are Y or N).
Org HAM Trans Cust Bid Ind	Organization Hour Ahead Market Transmission Customer Bid Indicator represents whether or not the organization is approved for Hour Ahead Market transmission customer bidding (values are Y or N).
Org ICAP Bid Ind	Organization Installed Capacity Bid Indicator represents whether or not the organization is approved for Installed Capacity market bidding (values are Y or N).
Org Load Bid Ind	Organization Load Bid Indicator represents whether or not the organization is approved for NYISO load bidding (values are Y or N).
Org NonFirm Trans Cust Bid Ind	Organization Non-Firm Transmission Customer Bid Indicator represents whether or not the organization is approved for Non-Firm transmission customer bidding (values are Y or N).
Org TCC Bid Ind	Organization Transmission Congestion Contract Bid Indicator represents whether or not the organization is approved for Transmission Congestion Contract market bidding (values are Y or N).
Org Virtual Load Bid Ind	Organization Virtual Load Bid Indicator represents whether or not the organization is approved for Virtual Load bidding (values are Y or N).
Org Virtual Supply Bid Ind	Organization Virtual Supply Bid Indicator represents whether or not the organization is approved for Virtual Supply bidding (values are Y or N).
Org Virtual Bid Limit (MW)	Organization Virtual Bid Limit (MW) is a number representing the maximum amount of energy the organziation is approved to bid into the NYISO virtual bid market.

Class: Load Serving Entities

Dimensional data which describes a load serving entity (load serving entity name, load serving entity PTID, etc.); contains Load Serving Entity Contact Information sub-class.

Object Name	Object Description
LSE Name	400 - Load Serving Entity Name represents the full name of the load serving entity
LSE PTID	Load Serving Entity PTID is a number representing the unique point identifier for a load serving entity
LSE Bid Ind	Load Serving Entity Bid Indicator represents whether or not the organization is approved for NYISO market bidding (values are Y or N).
LSE Active Ind	Load Serving Entity Active Indicator is a character representing whether or not the load serving entity is active in the NYISO marketplace (values are Y or N).

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Class: LSE Contact Info

Dimensional data which describes contact information for a load serving entity (load serving entity address lines (1-5), load serving entity contact name, load serving entity email address, etc.).

Object Name	Object Description
LSE Contact Name	Load Serving Entity Contact Name represents the name of the official contact person for the load serving entity.
LSE Address Line 1	LSE Address Line 1 represents the first line of the mail address of the offical contact person for the load serving entity
LSE Address Line 2	LSE Address Line 2 represents the second line of the mail address of the offical contact person for the load serving entity
LSE Address Line 3	LSE Address Line 3 represents the third line of the mail address of the offical contact person for the load serving entity
LSE Address Line 4	LSE Address Line 4 represents the fourth line of the mail address of the offical contact person for the load serving entity
LSE Address Line 5	LSE Address Line 5 represents the fifth line of the mail address of the offical contact person for the load serving entity
LSE Email Address	Load Serving Entity Email Address represents the email address of the offical contact person for the load serving entity.
LSE Fax #	Load Serving Entity Fax # represents the fax number of the official contact person for the load serving entity.
LSE Pager #	Load Serving Entity Pager # represents the pager number of the official contact person for the load serving entity.
LSE Primary Contact Phone #	LSE Primary Contact Phone # represents the primary telephone number of the official contact person for the load serving entity
LSE Secondary Contact Phone #	Load Serving Entity Secondary Contact Phone # represents the secondary telephone number of the official contact person for the load serving entity.

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Class: Load Buses

Dimensional data which describes a load bus (load bus name, load bus PTID, etc.); contains Load Bus Bid Indicators sub-class.

Object Name	Object Description
Load Bus Name	401 - Load Bus Name represents the full name of the load bus
Load Bus PTID	Load Bus PTID is a number representing the unique point identifier for the load bu:
Load Bus Type Desc	Load Bus Type Description represents the type of load bus, including: physical, virtual supply, and virtual load.
Load Bus Station Name	
Load Bus Active Ind	Load Bus Active Indicator is a character representing whether or not the load bus is active in the NYISO marketplace (values are Y or N).
Load Bus Voltage Class	
Load Bus EDC Area	Load Bus Economic Dispatch Control Area represents the control area which is responsible for ensuring the load is served at the given load bus.

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Class: Load Bus Bid Indicators

Dimensional data which describes the bidding approvals/limits determined by NYSIO for the load bus (Price Cap Load Qualified Indicator, Price Cap Load Limit, etc.).

Object Name	Object Description
Load Bus Intrpt 10min Qual Ind	Load Bus Interuptible 10 Minute Load Qualified Indicator is a character representing whether or not the load bus is approved for interuptible load bidding in the NYISO 10 minute interuptible load market (values are Y or N).
Load Bus Intrpt 30min Qual Ind	Load Bus Interuptible 30 Minute Load Qualified Indicator is a character representing whether or not the load bus is approved for interuptible load bidding in the NYISO 30 minute interuptible load market (values are Y or N).
Load Bus Fixed Energy Bid Qual Ind	Load Bus Fixed Energy Bid Qualified Indicator is a character representing whether the given organization is approved to submit fixed energy bids (values are Y or N).
Load Bus Price Cap Bid Qual Ind	Load Bus Price Capped Bid Qualified Indicator is a character representing whethe the given load bus is approved to submit price capped bids (values are Y or N).
Load Bus PrCap Load Limit (MW)	Load Bus Price Capped Load Limit (MW) is a number representing the maximum amount of price capped load that can be submitted by load serving entities on load bids for the given load bus.
Load Bus Fixed Load Limit (MW)	Load Bus Fixed Load Limit (MW) is a number representing the maximum amount of fixed load that can be submitted by load serving entities on load bids for the given load bus.
Load Bus Frcst Load Limit (MW)	Load Bus Forecast Load Limit (MW) is a number representing the maximum amount of forecasted load that can be submitted by load serving entities on load bids for the given load bus.

Class: Balancing Market Energy Settlement

Settlement data related to a load serving entity's NYISO Balancing Market Energy settlements; contains daily, hourly, and SCD-level sub-classes, which contain settlement results, billing determinants, and other related data sub-classes.

Object Name	Object Description
Invoice Version Number	Invoice Version Number is a number representing the version for an invoice; a version number =0 represent the current set of un-invoiced settlement data; invoic version numbers > 0 represent billed invoice settlement data.

Class: Daily (BalMkt Stlmnt)

Daily-level settlement data related to a load serving entity's settlement for balancing energy (energy, loss and congestion) in the NYISO markets; includes Daily Settlement Results and Daily Other Related Info sub-classes.

Object Name	Object Description
Interval Start Day (Eastern)	101 - Interval Start Day is a date representing the starting day of the interval, expressed in Eastern prevailing time

Class: Daily - Stlmnt Results

Daily-level data that is a summation of a load serving entity's SCD-level settlement results for balancing energy (energy, loss and congestion) in the NYISO markets.

Object Name	Object Description
Day BalMkt Energy Stlmnt - LSE ($)	705 - Balancing Market Energy Settlement - Load Serving Entity ($) is a number representing the BAS-determined amount of a LSE's balancing energy market energy component settlement
Day BalMkt Loss Stlmnt - LSE ($)	706 - Balancing Market Loss Settlement - Load Serving Entity ($) is a number representing the BAS-determined amount of a LSE's balancing energy market loss component settlement
Day BalMkt Cong Stlmnt - LSE ($)	707 - Balancing Market Congestion Settlement - Load Serving Entity ($) is a number representing the BAS-determined amount of a LSE's balancing energy market congestion component settlement
Day Total BalMkt Stlmnt - LSE ($)	Total Balancing Market Settlement - Load Serving Entity ($) is a number representing the BAS-determined amount of a LSE's total balancing energy market settlement; sum of the balancing energy market energy, loss, and congestion component settlements

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Class: Daily - Other Related Info

Daily-level data that is considered to be other useful information related to a load serving entity's settlement for balancing energy (energy, loss and congestion) in the NYISO markets.

Object Name	Object Description
Day Adj Meter (MWh)	Hourly Adjusted Energy (MW) is a number representing the BAS-determined load for a given load bus, for an interval; determined using the hourly Billing Meter (MWh) and Average Actual Load, summed up to the given hour
Day BalMkt Load - LSE (MWh)	704 - Balancing Mkt Load - LSE (MWh) is a number representing the amount of load settled in the Balancing Market for a given load bus, for the SCD interval.
Day Billing Meter Load (MWh)	Billing Meter Load (MWh) is a number representing the hourly metered load determined by the meter authority (transmission owner)
Day RT Actual Load (MWh)	Real Time Actual Load (MWh) is a number representing the real time actual load for the load bus over a SCD interval (allocated to individual load buses and submitted by transmission owners, NYISO allocated to SCD interval)
Day RT Sched Trans (MWh)	Real-Time Total Scheduled Transaction (MWh) is a number representing the total amount of transaction energy for all transactions scheduled for an SCD interval, withdrawn at a given load bus
Day DAM Load Bid -Fix Load (MW)	Day Ahead Market Load Bid Load (MW) is a number representing the amount of fixed load to be procured from the NYISO Day Ahead Market during the interval, submitted by the LSE in a load bid
Day DAM Load Bid Frcst Load (MW)	Day Ahead Market Load Bid Forecast Load (MW) is a number representing the total forecasted load during the interval, submitted by the LSE in a load bid
Day DAM Sched Load (MW)	402 - Day Ahead Market Scheduled Load (MW) is a number representing the total amount of load purchased by the LSE from the NYISO Day-Ahead Market. It is the total of the Day-Ahead Fixed Energy Bid (MW), plus any Day-Ahead Scheduled Price Capped Load (MW) for the LSE.

Class: Hourly (BalMkt Stlmnt)

Hourly-level settlement data related to a load serving entity's settlement for balancing energy (energy, loss and congestion) in the NYISO markets; includes Hourly Settlement Results and Hourly Other Related Info sub-classes.

Object Name	Object Description
Interval Start Day (Eastern)	101 - Interval Start Day is a date representing the starting day of the interval, expressed in Eastern prevailing time
Interval Start Hour (Eastern)	102 - Interval Start Hour is a number representing the starting hour for the interval (hour beginning 0-23), expressed in Eastern prevailing time

Class: Hourly - Stlmnt Results

Hourly-level data that is a summation of a load serving entity's SCD-level settlement results for balancing energy (energy, loss and congestion) in the NYISO markets.

Object Name	Object Description
Hr BalMkt Energy Stlmnt - LSE ($)	409 - Balancing Market Energy Settlement - Load Serving Entity ($) is a number representing the BAS-determined amount of a LSE's balancing energy market energy component settlement
Hr BalMkt Loss Stlmnt - LSE ($)	410 - Balancing Market Loss Settlement - Load Serving Entity ($) is a number representing the BAS-determined amount of a LSE's balancing energy market loss component settlement
Hr BalMkt Cong Stlmnt - LSE ($)	411 - Balancing Market Congestion Settlement - Load Serving Entity ($) is a number representing the BAS-determined amount of a LSE's balancing energy market congestion component settlement
Hr Total BalMkt Stlmnt - LSE ($)	Total Balancing Market Settlement - Load Serving Entity ($) is a number representing the BAS-determined amount of a LSE's total balancing energy market settlement; sum of the balancing energy market energy, loss, and congestion component settlements

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Class: Hourly - Other Related Info

Hourly-level data that is considered to be other useful information related to a load serving entity's settlement for balancing energy (energy, loss and congestion) in the NYISO markets.

Object Name	Object Description
Hr DAM Load Bid PrCap -Pr 1 ($/MW)	Day Ahead Load Bid Price Capped Price #1 ($/MW) is a number representing the bid price of price capped fixed block dispatchable load (MW) bid in the first block during the interval, submitted by the LSE in a load bid
Hr DAM Load Bid PrCap -Pr 2 ($/MW)	Day Ahead Load Bid Price Capped Price #3 ($/MW) is a number representing the bid price of price capped fixed block dispatchable load (MW) bid in the third block during the interval, submitted by the LSE in a load bid
Hr DAM Load Bid PrCap -Pr 3 ($/MW)	Day Ahead Load Bid Price Capped Price #3 is a number representing the bid price of price capped fixed block dispatchable load (MW) bid in the third block during the interval, submitted by the LSE in a load bid
Hr DAM Load Bid PrCap -Ld 1 (MW)	Day Ahead Load Bid Price Capped Load #1 (MW) is a number representing the amount of price capped fixed block dispatchable load (MW) bid in the first block during the interval, submitted by the LSE in a load bid
Hr DAM Load Bid PrCap -Ld 2 (MW)	Day Ahead Load Bid Price Capped Load #2 (MW) is a number representing the amount of price capped fixed block dispatchable load (MW) bid in the second block during the interval, submitted by the LSE in a load bid
Hr DAM Load Bid PrCap -Ld 3 (MW)	Day Ahead Load Bid Price Capped Load #3 (MW) is a number representing the amount of price capped fixed block dispatchable load (MW) bid in the third block during the interval, submitted by the LSE in a load bid
Hr DAM Inter Load Bid Type	Day Ahead Interruptible Load Bid Type is a character indicating whether the bid load will interrupt in 10 or 30 minutes for purpose of satisfying ISO reserve requirements, submitted by the LSE in a load bid
Hr DAM Inter Load Bid PrCap -($/MW)	Day Ahead Interruptible Load Bid Price Capped Price ($/MW) is a number representing the bid price for the interruptible price capped load bid for the interval submitted by the LSE in a load bid
Hr DAM Inter Load Bid PrCap-Ld (MW)	Day Ahead Interruptible Load Bid Price Capped Load (MW) is a number representing the amount of interruptible price capped load bid for the interval, submitted by the LSE in a load bid
Hr DAM Inter Load Bid Fix -Pr($/MW)	Day Ahead Interruptible Load Bid Fixed Price ($/MW) is a number representing the bid price for the interruptible fixed load bid for the interval, submitted by the LSE in a load bid
Hr DAM Inter Load Bid Fix -Ld (MW)	Day Ahead Interruptible Load Bid Fixed Load (MW) is a number representing the amount of interruptible fixed load bid for the interval, submitted by the LSE in a load bid
Hr Adj Meter (MWh)	Hourly Adjusted Energy (MW) is a number representing the BAS-determined load for a given load bus, for an interval; determined using the hourly Billing Meter (MWh) and Average Actual Load, summed up to the given hour

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Hr BalMkt Load - LSE (MWh)	407 - Balancing Mkt Load - LSE (MWh) is a number representing the amount of load settled in the Balancing Market for a given load bus, for the SCD interval.
Hr Billing Meter Load (MWh)	Billing Meter Load (MWh) is a number representing the hourly metered load determined by the meter authority (transmission owner)
Hr DAM Sched Load (MW)	402 - Day Ahead Market Scheduled Load (MW) is a number representing the total amount of load purchased by the LSE from the NYISO Day-Ahead Market. It is the total of the Day-Ahead Fixed Energy Bid (MW), plus any Day-Ahead Scheduled Price Capped Load (MW) for the LSE.
Hr DAM Load Bid -Fix Load (MW)	Day Ahead Market Load Bid Load (MW) is a number representing the amount of fixed load to be procured from the NYISO Day Ahead Market during the interval, submitted by the LSE in a load bid
Hr DAM Load Bid Frcst Load (MW)	Day Ahead Market Load Bid Forecast Load (MW) is a number representing the total forecasted load during the interval, submitted by the LSE in a load bid
Hr DAM Sched PrCap Load (MW)	Day Ahead Market Scheduled Price Capped Load (MW) is a number representing the amount of price capped load scheduled in the Day Ahead Market for the LSE for the interval
Hr DAM Sched Inter PrCap Load (MW)	Day Ahead Market Scheduled Interruptible Price Capped Load (MW) is a number representing the amount of interruptible price capped load scheduled in the Day Ahead Market for the LSE for the interval
Hr DAM Sched Inter Fix Load (MW)	Day Ahead Market Scheduled Interruptible Fixed Load (MW) is a number representing the amount of interruptible fixed load scheduled in the Day Ahead Market for the LSE for the interval
Hr DAM Sched Trans (MW)	Day Ahead Market Scheduled Transaction Energy (MW) is a number representing the amount of transaction energy scheduled by NYISO in the day ahead market for a given load bus.
Hr RT Actual Load (MWh)	"Real Time Actual Load (MWh) is a number representing the real time actual load for the load bus over a SCD interval (allocated to individual load buses and submitted by transmission owners, NYISO allocated to SCD interval) "
Hr RT Sched Trans (MWh)	Real-Time Total Scheduled Transaction (MWh) is a number representing the total amount of transaction energy for all transactions scheduled for an SCD interval, withdrawn at a given load bus
Subzone ConEd Ind	"Subzone Consolidated Edison Indicator is a character indicating if the subzone, which contains the load bus representing the sink for the given transaction contract, is used in the Consolidated Edison calculation (values are Y or N).

Class: SCD (BalMkt Stlmnt)

SCD-level settlement data related to a load serving entity's settlement for balancing energy (energy, loss and congestion) in the NYISO markets; includes SCD Settlement Results, SCD Billing Determinants, and SCD Other Related Info sub-classes.

Object Name	Object Description
Interval Start Day (Eastern)	101 - Interval Start Day is a date representing the starting day of the interval, expressed in Eastern prevailing time
Interval Start Hour (Eastern)	102 - Interval Start Hour is a number representing the starting hour for the interval (hour beginning 0-23), expressed in Eastern prevailing time
Interval Start Date/Time (Eastern)	Interval Start Date is a date representing the starting date/time (MM/DD/YYYY HH:MM:SS am) of the interval, expressed in Eastern prevailing time

Class: SCD - Stlmnt Results

SCD-level data that is a load serving entity's SCD-level settlement results for balancing energy (energy, loss and congestion) in the NYISO markets.

Object Name	Object Description
SCD BalMkt Energy Stlmnt - LSE ($)	Balancing Market Energy Settlement - Load Serving Entity ($) is a number representing the BAS-determined amount of a LSE's balancing energy market energy component settlement
SCD BalMkt Loss Stlmnt - LSE ($)	Balancing Market Loss Settlement - Load Serving Entity ($) is a number representing the BAS-determined amount of a LSE's balancing energy market loss component settlement
SCD BalMkt Cong Stlmnt - LSE ($)	Balancing Market Congestion Settlement - Load Serving Entity ($) is a number representing the BAS-determined amount of a LSE's balancing energy market congestion component settlement
SCD Total BalMkt Stlmnt - LSE ($)	Total Balancing Market Settlement - Load Serving Entity ($) is a number representing the BAS-determined amount of a LSE's total balancing energy market settlement; sum of the balancing energy market energy, loss, and congestion component settlements

Class: SCD - Billing Determinants

SCD-level data that are required inputs into a load serving entity's settlement for balancing energy (energy, loss and congestion) in the NYISO markets.

Object Name	Object Description
SCD RT Energy Price - LSE ($/MW)	Real-Time Energy Price ($/MW) is a number representing the price of energy at a load bus (LBMP energy component)
SCD RT Loss Price - LSE ($/MW)	Real-Time Loss Price ($/MW) is a number representing the price of loss at a load bus (LBMP loss component)
SCD RT Cong Price - LSE ($/MW)	Real-Time Congestion Price ($/MW) is a number representing the price of congestion at a load bus (LBMP congestion component)
SCD Total RT Price - LSE ($/MW)	Total Real-Time Price ($/MW) is a number representing the total LBMP price of a load bus
Hr DAM Load Bid Frcst Load (MW)	Day Ahead Market Load Bid Forecast Load (MW) is a number representing the total forecasted load during the interval, submitted by the LSE in a load bid
Hr DAM Subzone Frcst Load (MW)	Day Ahead Subzone Forecast Load (MW) is a number representing the total amount of forecasted load for a subzone. This is the sum of load bid forecast load for all load buses within the subzone; submitted by LSE's on a load bid
Hr DAM Sched Load (MW)	402 - Day Ahead Market Scheduled Load (MW) is a number representing the total amount of load purchased by the LSE from the NYISO Day-Ahead Market. It is the total of the Day-Ahead Fixed Energy Bid (MW), plus any Day-Ahead Scheduled Price Capped Load (MW) for the LSE.
SCD RT Actual Load (MW)	Real Time Actual Load (MW) is a number representing the total real time actual load for a given load bus for a given SCD interval
SCD RT Sched Trans (MW)	Real Time Scheduled Transaction Energy (MW) is a number representing the total amount of transaction energy scheduled in real time for a given transaction, for an SCD interval.
SCD Total Subzone Load (MW)	Total Sub-Zone Load (MW) is a number representing the total amount of load in a given sub-zone for the interval
SCD BalMkt Load - LSE (MWh)	Balancing Mkt Load - LSE (MWh) is a number representing the amount of load settled in the Balancing Market for a given load bus, for the SCD interval.
Fixed Correction Ratio	Fixed Correction Ratio is a number that is used to adjust real-time load (up or down). The values are 0 or 1. 0 means that the forecast is used instead of the real-time load.
SCD Interval Seconds	SCD Interval Seconds is a number representing the number of seconds in the SCD interval
Tariff Signed Ind	Tariff Signed Indicator is a character representing whether or not the organization has signed the NYISO Market Services Tariff (MST), and/or the NYISO Open Access Transmission Tariff (OATT)

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Class: SCD - Other Related Info

SCD-level data that is considered to be other useful information related to a load serving entity's settlement for balancing energy (energy, loss and congestion) in the NYISO markets.

Object Name	Object Description
SCD BalMkt Load - LSE (MW)	Balancing Market Load - LSE (MW) is a number representing the amount of load settled in the Balancing Market for a given load bus, for the SCD interval.
SCD RT Sched Trans (MWh)	Real-Time Total Scheduled Transaction (MWh) is a number representing the total amount of transaction energy for all transactions scheduled for an SCD interval, withdrawn at a given load bus
SCD RT Actual Load (MWh)	"Real Time Actual Load (MWh) is a number representing the real time actual load for the load bus over a SCD interval (allocated to individual load buses and submitted by transmission owners, NYISO allocated to SCD interval)
SCD Total Subzone Load (MWh)	Total Sub-Zone Load (MWh) is a number representing the total amount of load in a given sub-zone for the interval
SCD Total Subzone Load (MWh) ISO	Total Sub-Zone Load (MWh) is a number representing the total amount of load in a given sub-zone for the interval

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Class: Transaction Contract Schedules

Transaction-level data this is provided as detailed support for summarized load bus-level transaction contract schedule data used as billing determinants in a load serving entity's settlements.

Object Name	Object Description
TransCnt ID	500 - Transaction Contract ID is a unique number assigned by the NYISO representing the unique identifier for the given transaction contract
TC Org Name	100 - Transaction Contract Billing Organization Name represents the name of the organization, which is responsible for the given transaction contract.
TC Org Contact Name	Transaction Customer Organization Contact Name represents the name of the official contact person for the organization, which is responsible for the given transaction contract.
TC Org Email Address	Transaction Customer Organization Email Address represents the email address of the offical contact person for the organization, which is responsible for the given transaction contract.
TC Org Primary Contact Phone #	Transaction Customer Organization Primary Contact Phone # represents the primary telephone number of the official contact person for the organization, which is responsible for the given transaction contract.
SCD RT Sched Trans (MW)	Real Time Scheduled Transaction Energy (MW) is a number representing the total amount of transaction energy scheduled in real time for a given transaction, injected at a given generator, for an SCD interval.
SCD RT Sched Trans (MWh)	Real Time Scheduled Transaction Energy (MWh) is a number representing the total amount of transaction energy scheduled in real time for a given transaction, injected at a given generator, for an SCD interval.
Hr DAM Sched Trans (MW)	Day Ahead Market Scheduled Transaction Energy (MW) is a number representing the amount of energy scheduled for the given transaction by the NYISO in the Day Ahead Market
Hr HAM Sched Trans (MW)	Hour Ahead Scheduled Transaction Energy (MW) is a number representing the amount of energy scheduled by NYISO in the HAM for the given transaction and hour
Hr RT Sched Trans (MWh)	Real Time Scheduled Transaction Energy (MWh) is a number representing the total amount of transaction energy scheduled in real time for a given transaction, injected at a given generator, for an SCD interval.
Day RT Sched Trans (MWh)	Real Time Scheduled Transaction Energy (MWh) is a number representing the total amount of transaction energy scheduled in real time for a given transaction, injected at a given generator, for an SCD interval.

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Class: Subzone Real Time Info

Object Name	Object Description
Hr Total Subzone Load (MWh)	Total Sub-Zone Load (MWh) is a number representing the total amount of load in a given sub-zone for the interval
SCD Total Subzone Load (MW)	Total Sub-Zone Load (MW) is a number representing the total amount of load in a given sub-zone for the interval
SCD Total Subzone Load (MWh)	Total Sub-Zone Load (MWh) is a number representing the total amount of load in a given sub-zone for the interval

Class: Subzone Day Ahead Forecast

Object Name	Object Description
Hr DAM Subzone Frcst Load (MW)	Day Ahead Subzone Forecast Load (MW) is a number representing the total amount of forecasted load for a subzone. This is the sum of load bid forecast load for all load buses within the subzone; submitted by LSE's on a load bid

Universe: Cust Sttlmt - Power Suppliers

This universe provides access to customer settlements data for NYISO Power Suppliers (internal energy sales, internal BPCG payments, and ancillary service sales to the NYISO administered markets). It contains data that includes: required billing determinants (i.e. generation, price, operational flags, bids, etc.), settlement calculation results (currently balancing market energy and bid production cost guarantee settlements), and other related data. It provides users with the ability to analyze this data in an ad-hoc fashion using a wide variety of attributes (i.e. by organization, generator, time period, time interval, zone, sub-zone, billing version, etc.). Data in the universe can be configured for custom on-line reporting and analysis, to support participant invoice reconciliation processes, and for download to local file.

Class: Month

Dimensional data which describes the following year, quarter, and month time intervals (month name, month name abbreviation, quarter number, year number, etc.).

Object Name	Object Description
Month Name	Month Name represents the name of the month (e.g. January, February)
Month Name Abbrev	Month Name Abbreviation is a set of characters representing a common abbreviation of the name of the month (e.g. JAN, FEB)
Month of Year	Month of Year represents the numerical representation of the month (e.g. January = 01, February = 02)
Month Stamp	Month Stamp is a date representing the month in a MM/01/YYYY format.
Month Year Tag	Month Year Tag represents the month in a mmm-YYYY format.
Quarter Number	Quarter Number represents the numerical representation of the quarter of the year the month falls in (e.g. January = 1, February = 1)
Year Number	Year Number is a number representing the year (YYYY).
Interval Start Month (GMT)	

Class: Day

Dimensional data which describes day-level time descriptions (day of month, day of week, weekend indicator, holiday indicator, etc.).

Object Name	Object Description
Interval Start Day (Eastern)	101 - Interval Start Day is a date representing the starting day of the interval, expressed in Eastern prevailing time
Interval Start Day (GMT)	Interval Start Day (GMT) is a date representing the starting day of the interval (MM/DD/YYYY), expressed in greenwich mean time
Interval End Day (GMT)	Interval End Day (GMT) is a date representing the ending day of the interval (MM/DD/YYYY), expressed in greenwich mean time
Day of Month	Day of Month is a number representing the day of the month (values are from 1 to 31).
Day Name	Day Name represents the name of the day (e.g. Sunday, Monday)
Day of Week	Day of Week is a number representing the day in the week (Sunday=1, Monday=2).
Holiday Ind	Holiday Indicator is a character representing whether or not the day is a holiday (values are Y or N).
Weekday Ind	Weekday Indicator is a character representing whether or not the day is a weekday (Monday-Friday) (values are Y or N).
Weekend Ind	Weekend Indicator is a character representing whether or not the day is a weekend day (Saturday or Sunday) (values are Y or N).
EST-EDT Time Switch Ind	Weekend Indicator is a character representing whether or not the day is a weekend day (Saturday or Sunday) (values are Y or N).
Time Zone	
Capability Period	Capability Period represents the capability period that the day falls in (either Winter or Summer)
Julian Billing Date	Julian Billing Date is a number that represents the billing date (in numerical format).
Invoice Day Out Scheduled Ind	
Payment Due Date Ind	

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Class: Hour

Dimensional data which describes hour-level time descriptions (interval start hour (eastern)).

Object Name	Object Description
Interval Start Hour (Eastern)	102 - Interval Start Hour is a number representing the starting hour for the interval (hour beginning 0-23), expressed in Eastern prevailing time
DA Eastern Hour Stamp Tag	
DT Eastern Hour Stamp Tag	
Date Hour (Eastern)	
Date Hour (GMT)	

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Class: SCD

Dimensional data which describes SCD-level time descriptions (i.e. interval start minute, interval start second, SCD interval seconds, etc.).

Object Name	Object Description
Interval Start Minute	Interval Start Minute is a number representing the starting minute of the interval (0-59)
Interval Start Second	Interval Start Second is a number representing the starting second of the interval (0-59)
Interval Start Date/Time (Eastern)	Interval Start Date (GMT) is a date representing the starting date/time (MM/DD/YYYY HH:MM:SS am) of the interval, expressed in greenwich mean time
Interval Start Date/Time (GMT)	Interval Start Date (GMT) is a date representing the starting date/time (MM/DD/YYYY HH:MM:SS am) of the interval, expressed in greenwich mean time
SCD Interval End Date	
SCD Interval Seconds	SCD Interval Seconds is a number representing the number of seconds in the SCD interval
Created PTS Interval Ind	
DA Eastern Time Stamp Tag	Daily Advisory format Eastern Time Tag (format:)
DT Eastern Time Stamp Tag	Download Template format Eastern Time Tag (format:)
Dispatch Type Code	
Dispatch Type Description	Dispatch Type Description represents the reason for a generator's dispatch, whether a normal dispatch, reserve pickup, backup dispatch mode, or max gen pickup
Reserve Pickup Ind	Reserve Pick Up Indicator is an character which indicates whether the SCD interval was initiated as a reserve pickup.

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Class: Invoice Version

Dimensional data which describes invoice versions (billing day, invoice version #, invoice date, etc.).

Object Name	Object Description
Invoice Billing Day	Invoice Billing Day is a date representing the operation / trade day the billing data is for.
Invoice Billing Run Date	Invoice Billing Run Date is the date representing the date / time the Invoice Version was created.
Invoice Version Number	Invoice Version Number is a number representing the version for an invoice; a version number =0 represent the current set of un-invoiced settlement data; invoice version numbers > 0 represent billed invoice settlement data.
Invoice Billing Month	Invoice Billing Month is a date representing the month the billing data is for.
Invoice Date	Invoice Date is a date representing the date / time the invoice was posted.
Stlmnt Type Desc	Settlement Type Description represents the reason the settlement interval is being invoiced on the given invoice (values are Initial Settlement, Rebill, 4 Month Settlement, 8 Month Settlement, 12 Month Settlement, 24 Month Settlement).
Earliest Version Ind	Earliest Version Indicator is a character representing whether or not the given invoice version is the earliest (initial) version for the given billing month (values are Y or N).
Latest Version Ind	Latest Version Indicator is a character representing whether or not the given invoice version is the latest (most current) version (invoiced or not) for the given billing month (values are Y or N).
Invoice Posted Ind	Invoice Posted Indicator is a character representing whether or not the given invoice has been posted for customer access (values are Y or N).
Latest Invoiced Version Ind	Latest Invoiced Version Indicator is a character representing whether or not the given invoice version is the latest (most current) version that has been invoiced for the given billing month (values are Y or N).
Sortable Invoice Version Number	
Billing Version Update Date	Billing Version Update Date is a date representing the day the given billing version was captured into the NYISO DSS.

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Class: Zone / Subzone

Dimensional data which describes zones and subzones (zone name, zone PTID, subzone name, subzone PTID, external zone indicator, etc.).

Object Name	Object Description
Zone PTID	Zone PTID is a number representing the unique point identifier for a zone.
Zone Name	Zone Name represents the full name of the zone
Zone Active Ind	Zone Active Indicator is a character representing whether or not the zone is active in the NYISO marketplace (values are Y or N).
Zone Ext Ind	Zone External Indicator is a character representing whether or not the given zone is external to the NY control area (values are Y or N).
Subzone PTID	Subzone PTID is a number representing the unique point identifier for a subzone.
Subzone Name	Subzone Name represents the full name of the subzone
Subzone ConEd Ind	"Subzone Consolidated Edison Indicator is a character indicating if the subzone, which contains the load bus representing the sink for the given transaction contract, is used in the Consolidated Edison calculation (values are Y or N).
Subzone Active Ind	Subzone Active Indicator is a character representing whether or not the subzone is active in the NYISO marketplace (values are Y or N).

Class: Organization

Dimensional data which describes the organization responsible for a generator(s) (organization name, organization type indicator, etc.); contains Organization Contact Info and Organization Bid Indicators sub-classes.

Object Name	Object Description
Org Name	100 - Organization Name represents the name of the given organization, which is responsible for the given generator
Org Tariff Signed Ind	Organization Tariff Signed Indicator is a character representing whether or not the organization has signed the NYISO Market Services Tariff (MST), and/or the NYISO Open Access Transmission Tariff (OATT)
Org Type Desc	Organization Type Description represents the type of the organization.
Org Active Ind	Organization Active Indicator is a character representing whether or not the organization is active in the NYISO marketplace (values are Y or N).
Org Qual Ind	Organization Qualified Indicator is a number which represents whether the organization is a qualified NYISO billing organization (values are Y or N).
Org Agreement Ref No	

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Class: Organization Contact Info

Dimensional data which describes contact information for the organization responsible for a generator(s) (organization address lines (1-5), organization contact name, organization email address, etc.).

Object Name	Object Description
Org Contact Name	Organization Contact Name represents the name of the official contact person for the organization
Org Address Line 1	Organization Address Line 1 represents the first line of the mail address of the offical contact person for the organization
Org Address Line 2	Organization Address Line 2 represents the second line of the mail address of the offical contact person for the organization
Org Address Line 3	Organization Address Line 3 represents the third line of the mail address of the offical contact person for the organization
Org Address Line 4	Organization Address Line 4 represents the fourth line of the mail address of the offical contact person for the organization
Org Address Line 5	Organization Address Line 5 represents the fifth line of the mail address of the offical contact person for the organization
Org Email Address	Organization Email Address represents the email address of the offical contact person for the organization
Org Fax #	Organization Fax # represents the fax number of the official contact person for the organization
Org Pager #	Organization Pager # represents the pager number of the official contact person for the organization
Org Primary Contact Phone #	Organization Primary Contact Phone # represents the primary telephone number of the official contact person for the organization
Org Secondary Contact Phone #	Organization Secondary Contact Phone # represents the secondary telephone number of the official contact person for the organization

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Class: Organization Bid Indicators

Dimensional data which describes the bidding approvals/limits determined by NYSIO for the organization responsible for a generator(s) (DAM generation bid indicator, load bid indicator, virtual bid limit, etc.).

Object Name	Object Description
Org DAM Gen Bid Ind	Organization Day Ahead Market Generation Bid Indicator represents whether or not the organization is approved for Day Ahead Market generation bidding (values are Y or N).
Org DAM Trans Cust Bid Ind	Organization Day Ahead Market Transmission Customer Bid Indicator represents whether or not the organization is approved for Day Ahead Market transmission customer bidding (values are Y or N).
Org HAM Gen Bid Ind	Organization Hour Ahead Market Generation Bid Indicator represents whether or not the organization is approved for Hour Ahead Market generation bidding (values are Y or N).
Org HAM Trans Cust Bid Ind	Organization Hour Ahead Market Transmission Customer Bid Indicator represents whether or not the organization is approved for Hour Ahead Market transmission customer bidding (values are Y or N).
Org ICAP Bid Ind	Organization Installed Capacity Bid Indicator represents whether or not the organization is approved for Installed Capacity market bidding (values are Y or N).
Org Load Bid Ind	Organization Load Bid Indicator represents whether or not the organization is approved for NYISO load bidding (values are Y or N).
Org NonFirm Trans Cust Bid Ind	Organization Non-Firm Transmission Customer Bid Indicator represents whether or not the organization is approved for Non-Firm transmission customer bidding (values are Y or N).
Org TCC Bid Ind	Organization Transmission Congestion Contract Bid Indicator represents whether or not the organization is approved for Transmission Congestion Contract market bidding (values are Y or N).
Org Virtual Load Bid Ind	Organization Virtual Load Bid Indicator represents whether or not the organization is approved for Virtual Load bidding (values are Y or N).
Org Virtual Supply Bid Ind	Organization Virtual Supply Bid Indicator represents whether or not the organization is approved for Virtual Supply bidding (values are Y or N).
Org Virtual Bid Limit (MW)	Organization Virtual Bid Limit (MW) is a number representing the maximum amount of energy the organziation is approved to bid into the NYISO virtual bid market.

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Class: Generators

Dimensional data which describes a generator (generator name, generator PTID, generator NERC ID, etc.); contains Generator Contact Info, Operating Parameters, Group Generators, Lead-Lag Curves, and Bid Approval Indicators sub-classes.

Object Name	Object Description
Gen Name	200 - Generator Name represents the full name of the Generator
Gen PTID	201 - Generator PTID is a number representing the unique point identifier for a generator.
Gen Type Desc	Generator Type Description represents the name of the type of Generator
Gen Active Ind	Generator Active Indicator is a character representing whether or not the Generator is active in the NYISO marketplace (values are Y or N).
Gen Station Name	
Gen NERC ID	Generator NERC ID is a number representing a unique number assigned to the given generator by the North American Energy Reliability Council.
Gen Bi-Directional Ind	

Class: Generator Contact Info

Dimensional data which describes contact information for a power supplier (generator address lines (1-5), generator contact name, generator email address, etc.).

Object Name	Object Description
Gen Contact Name	Generator Contact Name represents the name of the official contact person for the Generator
Gen Address Line 1	Generator Address Line 1 represents the first line of the mail address of the officia contact person for the Generator
Gen Address Line 2	Generator Address Line 2 represents the second line of the mail address of the official contact person for the Generator
Gen Address Line 3	Generator Address Line 3 represents the third line of the mail address of the official contact person for the Generator
Gen Address Line 4	Generator Address Line 4 represents the fourth line of the mail address of the official contact person for the Generator
Gen Address Line 5	Generator Address Line 5 represents the fifth line of the mail address of the officia contact person for the Generator
Gen Primary Contact Phone #	Generator Primary Contact Phone # represents the primary telephone number of the official contact person for the Generator
Gen Secondary Contact Phone #	Generator Secondary Contact Phone # represents the secondary telephone number of the official contact person for the Generator
Gen Email Address	Generator Email Address represents the email address of the official contact person for the Generator
Gen Fax #	Generator Fax # represents the fax number of the official contact person for the Generator
Gen Pager #	Generator Pager # represents the pager number of the official contact person for the Generator

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Class: Operating Parameters

Dimensional data which describes a generator's operating parameters (generator power factor, generator voltage class, generator operating limits (winter & summer), etc.).

Object Name	Object Description
Gen AVR Qualified Ind	Generator Automatic Voltage Response Qualified Indicator is a character representing whether or not the given generator has been qualified by NYISO as having the ability to automatically provide voltage response service (values are Y or N).
Gen EDC Area	Generator Economic Dispatch Control Area represents the control area which is responsible for the economic dispatch of the given generator.
Gen Contr Ins Cap - Summer (MW)	Generator Contracted Summer Installed Capacity (MW) is a number representing the amount of installed capacity effective for the summer capacity period for the given generator.
Gen Contr Ins Cap - Winter (MW)	Generator Contracted Winter Installed Capacity (MW) is a number representing the amount of installed capacity effective for the winter capacity period for the given generator.
Gen Resp Rate -Emer	
Gen Regulation Resp Rate -Max	
Gen Meter Qualified Ind	
Gen Op Limit -Max Summer (MW)	Generator Operating Limit - Maximum Summer (MW) is a number indicating the maximum operating capacity for a generator during the summer capacity planning period.
Gen Op Limit -Max Winter (MW)	Generator Operating Limit - Maximum Winter (MW) is a number indicating the maximum operating capacity for a generator during the winter capacity planning period.
Gen Resp Rate -Normal	
Gen Resp Rate -Normal #2	
Gen Resp Rate -Normal #3	
Gen Resp Rate MW -Normal	
Gen Resp Rate MW -Normal #2	
Gen Penalty Factor	Generator Penalty Factor is a number representing the incremental affect of transmission losses with a specific bus (with respect to a reference bus) for the given generator.

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Gen Phys Min Gen (MW)	Generator Physical Minimum Generation (MW) is a number representing the minimum physical operating output level for a given generator.
Gen Power Factor (MVA)	Generator Power Factor (MVA) is a number representing the ratio of real power to apparent power (the product of volts and amperes) for the given generator.
Gen Voltage Class	
Gen PURPA Units Class Type	Generator PURPA Class Type is a character representing the class of the PURPA Generator (Class 1 or Class 2).

Class: Group Generators

Dimensioinal data which describes grouped generators (bid indicators, operational parameters, etc.).

Object Name	Object Description
GenGrp Ind	Generator Group Indicator specifies whether or not a generator is part of a defined generation group for settlements purposes (Stand alone unit = 1, Group Ind. Unit = 2, Gen Group = 3)
GenGrp PTID	Generator Group PTID is a number representing the unique point identifier for a group of generators
GenGrp Active Ind	Generator Group Active Indicator is a character representing whether or not the Generator Group is active in the NYISO marketplace (values are Y or N).
GenGrp Meter Qualified Ind	
GenGrp AVR Qualified Ind	Generator Group Automatic Voltage Response Qualified Indicator is a character representing whether or not the given Generator Group has been qualified by NYISO as having the ability to automatically provide voltage response service (values are Y or N).
GenGrp DAM 10NSync Bid Ind	Generator Group Day Ahead 10 Minute Non-Sync Reserve Bid Indicator is a character representing whether or not the given Generator Group is approved to bid into the Day Ahead 10 Minute Non-Sync Reserve Market (Y,N)
GenGrp DAM 10Sync Bid Ind	Generator Group Day Ahead 10 Minute Sync Reserve Bid Indicator is a character representing whether or not the given Generator Group is approved to bid into the Day Ahead 10 Minute Sync Reserve Market (Y,N)
GenGrp DAM 30NSync Bid Ind	Generator Group Day Ahead 30 Minute Non-Sync Reserve Bid Indicator is a character representing whether or not the given Generator Group is approved to bid into the Day Ahead 30 Minute Non-Sync Reserve Market (Y,N)
GenGrp DAM 30Sync Bid Ind	Generator Group Day Ahead 30 Minute Sync Reserve Bid Indicator is a character representing whether or not the given Generator Group is approved to bid into the Day Ahead 30 Minute Sync Reserve Market (Y,N)
GenGrp DAM Disp Eng Ind	
GenGrp DAM Fix Eng Ind	
GenGrp DAM Reg Bid Ind	Generator Group Day Ahead Regulation Bid Indicator is a character representing whether or not the given Generator Group is approved to bid into the Day Ahead Regulation Market (Y,N)
GenGrp HAM 10NSync Bid Ind	Generator Group Hour Ahead 10 Minute Non-Sync Reserve Bid Indicator is a character representing whether or not the given Generator Group is approved to bid into the Hour Ahead 10 Minute Non-Sync Reserve Market (Y,N)

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GenGrp HAM 10Sync Bid Ind	Generator Group Hour Ahead 10 Minute Sync Reserve Bid Indicator is a character representing whether or not the given Generator Group is approved to bid into the Hour Ahead 10 Minute Sync Reserve Market (Y,N)
GenGrp HAM 30NSync Bid Ind	Generator Group Hour Ahead 30 Minute Non-Sync Reserve Bid Indicator is a character representing whether or not the given Generator Group is approved to bid into the Hour Ahead 30 Minute Non-Sync Reserve Market (Y,N)
GenGrp HAM 30Sync Bid Ind	Generator Group Hour Ahead 30 Minute Sync Reserve Bid Indicator is a character representing whether or not the given Generator Group is approved to bid into the Hour Ahead 30 Minute Sync Reserve Market (Y,N)
GenGrp HAM Disp Eng Ind	
GenGrp HAM Fix Eng Ind	
GenGrp HAM Reg Bid Ind	Generator Group Hour Ahead Regulation Bid Indicator is a character representing whether or not the given Generator Group is approved to bid into the Hour Ahead Regulation Market (Y,N)
GenGrp NYC 10MSpin Bid Ind	
GenGrp NYC MPM Ind	
GenGrp Contr Ins Cap - Summer (MW)	Generator Group Contracted Summer Installed Capacity (MW) is a number representing the amount of installed capacity effective for the summer capacity period for the given generator.
GenGrp Op Limit -Max Summer (MW)	Generator Group Operating Limit - Maximum Summer (MW) is a number indicating the maximum operating capacity for a generator group during the summer capacity planning period.
GenGrp Contr Ins Cap - Winter (MW)	Generator Group Contracted Winter Installed Capacity (MW) is a number representing the amount of installed capacity effective for the winter capacity period for the given generator.
GenGrp Op Limit -Max Winter (MW)	Generator Group Operating Limit - Maximum Winter (MW) is a number indicating the maximum operating capacity for a generator group during the winter capacity planning period.
GenGrp EDC Area	Generator Group Economic Dispatch Control Area represents the control area which is responsible for the economic dispatch of the given generator group.
GenGrp Resp Rate -Emer	
GenGrp Name	Group Generator Name represents the full name of the generator group entity created to represent a defined set of individual generators.
GenGrp Contact Name	Generator Group Contact Name represents the name of the official contact person for the Generator Group
GenGrp Name Partial	
GenGrp Regulation Resp Rate -Max	

GenGrp NERC ID	Generator Group NERC ID is a number representing a unique number assigned to the given generator group by the North American Energy Reliability Council
GenGrp Resp Rate -Norm	
GenGrp Penalty Factor	Generator Group Penalty Factor is a number representing the incremental affect of transmission losses with a specific bus (with respect to a reference bus) for the given generator group.
GenGrp Phys Min Gen (MW)	Generator Group Physical Minimum Generation (MW) is a number representing the minimum physical operating output level for a given generator.
GenGrp Power Factor (MVA)	Generator Group Power Factor (MVA) is a number representing the ratio of real power to apparent power (the product of volts and amperes) for the given generator group.
GenGrp Station Name	
GenGrp Voltage Class	

Class: Lead - Lag Curves

Dimensional data which describes a generator's lead - lag curves to support reactive supply/absorb service.

Object Name	Object Description
Gen Lag Curve MVAr #1	Generator Lagging Curve Reactive Energy #1 (MVAr) is a number representing the amount of generator-supplied (to the NY transmission system) reactive energy offered in the first reactive energy curve point.
Gen Lag Curve MVAr #2	Generator Lagging Curve Reactive Energy #2 (MVAr) is a number representing the amount of generator-supplied (to the NY transmission system) reactive energy offered in the second reactive energy curve point.
Gen Lag Curve MVAr #3	Generator Lagging Curve Reactive Energy #3 (MVAr) is a number representing the amount of generator-supplied (to the NY transmission system) reactive energy offered in the third reactive energy curve point.
Gen Lag Curve MVAr #4	Generator Lagging Curve Reactive Energy #4 (MVAr) is a number representing the amount of generator-supplied (to the NY transmission system) reactive energy offered in the fourth reactive energy curve point.
Gen Lag Curve MVAr #5	Generator Lagging Curve Reactive Energy #5 (MVAr) is a number representing the amount of generator-supplied (to the NY transmission system) reactive energy offered in the fifth reactive energy curve point.
Gen Lag Curve MVAr #6	Generator Lagging Curve Reactive Energy #6 (MVAr) is a number representing the amount of generator-supplied (to the NY transmission system) reactive energy offered in the sixth reactive energy curve point.
Gen Lag Curve MW #1	Generator Lagging Curve Energy #1 (MW) is a number representing the amount of generator output required to support the desired reactive energy supply, offered in the first reactive energy curve point.
Gen Lag Curve MW #2	Generator Lagging Curve Energy #2 (MW) is a number representing the amount of generator output required to support the desired reactive energy supply, offered in the second reactive energy curve point.
Gen Lag Curve MW #3	Generator Lagging Curve Energy #3 (MW) is a number representing the amount of generator output required to support the desired reactive energy supply, offered in the third reactive energy curve point.
Gen Lag Curve MW #4	Generator Lagging Curve Energy #4 (MW) is a number representing the amount of generator output required to support the desired reactive energy supply, offered in the fourth reactive energy curve point.
Gen Lag Curve MW #5	Generator Lagging Curve Energy #5 (MW) is a number representing the amount of generator output required to support the desired reactive energy supply, offered in the fifth reactive energy curve point.
Gen Lag Curve MW #6	Generator Lagging Curve Energy #6 (MW) is a number representing the amount of generator output required to support the desired reactive energy supply, offered in the sixth reactive energy curve point.

Gen Lead Curve MVAr #1	Generator Leading Curve Reactive Energy #1 (MVAr) is a number representing the amount of generator-absorbed (from the NY transmission system) reactive energy offered in the first reactive energy curve point.
Gen Lead Curve MVAr #2	Generator Leading Curve Reactive Energy #2 (MVAr) is a number representing the amount of generator-absorbed (from the NY transmission system) reactive energy offered in the second reactive energy curve point.
Gen Lead Curve MVAr #3	Generator Leading Curve Reactive Energy #3 (MVAr) is a number representing the amount of generator-absorbed (from the NY transmission system) reactive energy offered in the third reactive energy curve point.
Gen Lead Curve MVAr #4	Generator Leading Curve Reactive Energy #4 (MVAr) is a number representing the amount of generator-absorbed (from the NY transmission system) reactive energy offered in the fourth reactive energy curve point.
Gen Lead Curve MVAr #5	Generator Leading Curve Reactive Energy #5 (MVAr) is a number representing the amount of generator-absorbed (from the NY transmission system) reactive energy offered in the fifth reactive energy curve point.
Gen Lead Curve MVAr #6	Generator Leading Curve Reactive Energy #6 (MVAr) is a number representing the amount of generator-absorbed (from the NY transmission system) reactive energy offered in the sixth reactive energy curve point.
Gen Lead Curve MW #1	Generator Leading Curve Energy #1 (MW) is a number representing the amount of generator output required to support the desired reactive energy absorption, offered in the first reactive energy curve point.
Gen Lead Curve MW #2	Generator Leading Curve Energy #2 (MW) is a number representing the amount of generator output required to support the desired reactive energy absorption, offered in the second reactive energy curve point.
Gen Lead Curve MW #3	Generator Leading Curve Energy #3 (MW) is a number representing the amount of generator output required to support the desired reactive energy absorption, offered in the third reactive energy curve point.
Gen Lead Curve MW #4	Generator Leading Curve Energy #4 (MW) is a number representing the amount of generator output required to support the desired reactive energy absorption, offered in the fourth reactive energy curve point.
Gen Lead Curve MW #5	Generator Leading Curve Energy #5 (MW) is a number representing the amount of generator output required to support the desired reactive energy absorption, offered in the fifth reactive energy curve point.
Gen Lead Curve MW #6	Generator Leading Curve Energy #6 (MW) is a number representing the amount of generator output required to support the desired reactive energy absorption, offered in the sixth reactive energy curve point.

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Class: Generator Bid Indicators

Dimensional data which describes the bidding approvals/limits determined by NYSIO for the generator (DAM 10 minute synchronous bid indicator, HAM 10 minute synchronous bid indicator, etc.).

Object Name	Object Description
Gen DAM 10NSync Bid Ind	Generator Day Ahead 10 Minute Non-Sync Reserve Bid Indicator is a character representing whether or not the given generator is approved to bid into the Day Ahead 10 Minute Non-Sync Reserve Market (Y,N)
Gen DAM 10Sync Bid Ind	Generator Day Ahead 10 Minute Sync Reserve Bid Indicator is a character representing whether or not the given generator is approved to bid into the Day Ahead 10 Minute Sync Reserve Market (Y,N)
Gen DAM 30NSync Bid Ind	Generator Day Ahead 30 Minute Non-Sync Reserve Bid Indicator is a character representing whether or not the given generator is approved to bid into the Day Ahead 30 Minute Non-Sync Reserve Market (Y,N).
Gen DAM 30Sync Bid Ind	Generator Day Ahead 30 Minute Sync Reserve Bid Indicator is a character representing whether or not the given generator is approved to bid into the Day Ahead 30 Minute Sync Reserve Market (Y,N)
Gen DAM Disp Eng Ind	
Gen DAM Fix Eng Ind	
Gen DAM Reg Bid Ind	Generator Day Ahead Regulation Bid Indicator is a character representing whethe or not the given generator is approved to bid into the Day Ahead Regulation Market (Y,N)
Gen HAM 10NSync Bid Ind	Generator Hour Ahead 10 Minute Non-Sync Reserve Bid Indicator is a character representing whether or not the given generator is approved to bid into the Hour Ahead 10 Minute Non-Sync Reserve Market (Y,N)
Gen HAM 10Sync Bid Ind	Generator Hour Ahead 10 Minute Sync Reserve Bid Indicator is a character representing whether or not the given generator is approved to bid into the Hour Ahead 10 Minute Sync Reserve Market (Y,N)
Gen HAM 30NSync Bid Ind	Generator Hour Ahead 30 Minute Non-Sync Reserve Bid Indicator is a character representing whether or not the given generator is approved to bid into the Hour Ahead 30 Minute Non-Sync Reserve Market (Y,N)
Gen HAM 30Sync Bid Ind	Generator Hour Ahead 30 Minute Sync Reserve Bid Indicator is a character representing whether or not the given generator is approved to bid into the Hour Ahead 30 Minute Sync Reserve Market (Y,N)
Gen HAM Disp Eng Ind	
Gen HAM Fix Eng Ind	

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Gen HAM Reg Bid Ind	Generator Hour Ahead Regulation Bid Indicator is a character representing whether or not the given generator is approved to bid into the Hour Ahead Regulation Market (Y,N)
Gen NYC MPM Ind	
Gen NYC 10min Spin Bid Check In	

Class: Balancing Market Energy Settlement

Settlement data related to a power supplier's NYISO Balancing Market Energy settlements; contains daily, hourly, and SCD-level sub-classes, which contain settlement results, billing determinants, and other related data sub-classes.

Object Name	Object Description
Invoice Version Number	Invoice Version Number is a number representing the version for an invoice; a version number =0 represent the current set of un-invoiced settlement data; invoice version numbers > 0 represent billed invoice settlement data.

Class: Daily (BalMkt Stlmnt)

Daily-level settlement data related to a power supplier's settlement for balancing energy (energy, loss and congestion) in the NYISO markets; includes Daily Settlement Results and Daily Other Related Info sub-classes.

Object Name	Object Description
Interval Start Day (Eastern)	101 - Interval Start Day is a date representing the starting day of the interval, expressed in Eastern prevailing time

Class: Daily - Stlmnt Results

Daily-level data that is a summation of a power supplier's SCD-level settlement results for balancing energy (energy, loss and congestion) in the NYISO markets.

Object Name	Object Description
Day BalMkt Energy Stlmnt - Gen ($)	Balancing Market Energy Settlement - Generator ($) is a number representing the BAS-determined amount of a generator's balancing energy market energy component settlement
Day BalMkt Loss Stlmnt - Gen ($)	Balancing Market Loss Settlement - Generator ($) is a number representing the BAS-determined amount of a generator's balancing energy market loss component settlement
Day BalMkt Cong Stlmnt - Gen ($)	Balancing Market Congestion Settlement - Generator ($) is a number representing the BAS-determined amount of a generator's balancing energy market congestion component settlement
Day Total BalMkt Stlmnt - Gen ($)	304 - Total Balancing Market Settlement - Generator ($) is a number representing the BAS-determined amount of a generator's total balancing energy market settlement; sum of the balancing energy market energy, loss, and congestion component settlements

Class: Daily - Other Related Info

Daily-level data that is considered to be other useful information related to a power supplier's settlement for balancing energy (energy, loss and congestion) in the NYISO markets.

Object Name	Object Description
Day Gen BalMkt Energy (MWh)	Generation Balancing Market Energy (MWh) is a number representing the total amount of energy that is settled in the NYISO Balancing Market for a given generator for a given SCD interval. The value is determined as follows: Generator Adjusted Energy - Day-Ahead Scheduled Energy - (RT Transactions Scheduled - DA Transactions Scheduled)
Day RT Sched Trans (MWh)	Real-Time Total Scheduled Transaction (MWh) is a number representing the total amount of transaction energy for all transactions, injected at a given generator, scheduled for an SCD interval
Day NYISO DAM Energy (MW)	202 - NYISO Day-Ahead Market Energy (MW) is a number representing the amount of generation settled in the NYISO Day-Ahead Market
Day Gen-Org Eff Date	Generator-Organization Effective Date is a date representing when the generator became part of the billing organization.

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Class: Hourly (BalMkt Stlmnt)

Hourly-level settlement data related to a power supplier's settlement for balancing energy (energy, loss and congestion) in the NYISO markets; includes Hourly Settlement Results and Hourly Other Related Info sub-classes.

Object Name	Object Description
Interval Start Day (Eastern)	101 - Interval Start Day is a date representing the starting day of the interval, expressed in Eastern prevailing time
Interval Start Hour (Eastern)	102 - Interval Start Hour is a number representing the starting hour for the interval (hour beginning 0-23), expressed in Eastern prevailing time

Class: Hourly - Stlmnt Results

Hourly-level data that is a summation of a power supplier's SCD-level settlement results for balancing energy (energy, loss and congestion) in the NYISO markets.

Object Name	Object Description
Hr BalMkt Energy Stlmnt - Gen ($)	Balancing Market Energy Settlement - Generator ($) is a number representing the BAS-determined amount of a generator's balancing energy market energy component settlement
Hr BalMkt Loss Stlmnt - Gen ($)	Balancing Market Loss Settlement - Generator ($) is a number representing the BAS-determined amount of a generator's balancing energy market loss component settlement
Hr BalMkt Cong Stlmnt - Gen ($)	Balancing Market Congestion Settlement - Generator ($) is a number representing the BAS-determined amount of a generator's balancing energy market congestion component settlement
Hr Total BalMkt Stlmnt - Gen ($)	209 - Total Balancing Market Settlement - Generator ($) is a number representing the BAS-determined amount of a generator's total balancing energy market settlement; sum of the balancing energy market energy, loss, and congestion component settlements

Class: Hourly - Other Related Info

Hourly-level data that is considered to be other useful information related to a power supplier's settlement for balancing energy (energy, loss and congestion) in the NYISO markets.

Object Name	Object Description
Hr DAM Sched Gen (MW)	Day Ahead Scheduled Generation (MW) is a number representing the amount of generation scheduled by the NYISO for the given generator in the Day Ahead Market (total scheduled for a generator in the DAM, including day-ahead scheduled transactions and NYISO Day-Ahead Market energy sales)
Hr DAM Sched Trans (MW)	Day Ahead Scheduled Transactions (MW) is a number representing the total amount of energy scheduled by the NYISO for all transactions for a given generator, for a given hour
Hr HAM Sched Gen (MW)	Hour Ahead Scheduled Generation (MW) is a number representing the amount of generation scheduled by the NYISO for the given generator in the Hour Ahead Market
Hr HAM Sched 10SyncRes Avail (MW)	Hour Ahead Scheduled 10 Minute Sync Reserve Availability (MW) is a number representing the amount of 10 minute sync reserve availability scheduled by the NYISO for the given generator in the Hour Ahead Market
Hr NYISO DAM Energy (MW)	202 - NYISO Day-Ahead Market Energy (MW) is a number representing the amount of generation settled in the NYISO Day-Ahead Market
Hr HAM Sched Reg Avail (MW)	219 - Hour Ahead Scheduled Regulation Availability (MW) is a number representing the amount of regulation availability scheduled by the NYISO for the given generator in the Hour Ahead Market
Hr Gen Avg Actual Energy (MWh)	Hourly Gen Average Actual Energy (MWh) is a number representing the total amount of actual generator output integrated over the SCD interval and summed up to the hourly level. Data used is from the NYISO SCADA systems (PTS).
Hr Gen Adjusted Energy (MWh)	Hourly Generator Adjusted Energy (MWh) is a number representing the hourly total of the BAS-determined output of the generator for the interval
Hr Gen Meter Energy (MWh)	Generator Metered Energy (MWh) is a number representing the amount of settlement-quality metered generation for the hour for the given generator. This value is provided by the individual transmission owners and is allocated to the SCD level by the NYISO using SCD Gen Avg Actual Energy (MW)
Hr RT Sched Trans (MWh)	Real-Time Total Scheduled Transaction (MWh) is a number representing the total amount of transaction energy for all transactions, injected at a given generator, scheduled for an SCD interval
Hr Gen BalMkt Energy (MWh)	207 - Generation Balancing Market Energy (MWh) is a number representing the total amount of energy that is settled in the NYISO Balancing Market for a given generator for a given SCD interval. The value is determined as follows: Generator Adjusted Energy - Day-Ahead Scheduled Energy - (RT Transactions Scheduled - DA Transactions Scheduled)

SCD Gen Avg Actual Energy (MWh)	Generator Average Actual Energy (MWh) is a number representing the SCD interval average output of a generator. It is the average of the 6 second-level data coming from the NYISO SCADA system.
OOM Flag	5200 - Generator Out of Merit Flag is a character representing whether or not the given generator was dispatched out of economic merit order during the interval
Hr Local Reliability Ind	5210 - Local Reliability Indicator is a character which indicates whether a unit is out of merit due to local reliability or security issues. The data element is derived from Out of Merit Type ID.
Hr Eligible For Mingen Ind	5230 - Eligible for MinGen Indicator is a character (Y,N) representing whether a generator is eligible for a BPCG payment for a given hour. The value is derived from Out of Merit Type ID.
Hr Gen-Org Eff Date	Generator-Organization Effective Date is a date representing when the generator became part of the billing organization.
Hr DAM Ind	
Hr HAM Ind	
Hr SRE Ind	

Class: SCD (BalMkt Stlmnt)

SCD-level settlement data related to a power supplier's settlement for balancing energy (energy, loss and congestion) in the NYISO markets; includes SCD Settlement Results, SCD Billing Determinants, and SCD Other Related Info sub-classes.

Object Name	Object Description
Interval Start Day (Eastern)	101 - Interval Start Day is a date representing the starting day of the interval, expressed in Eastern prevailing time
Interval Start Hour (Eastern)	102 - Interval Start Hour is a number representing the starting hour for the interval (hour beginning 0-23), expressed in Eastern prevailing time
Interval Start Date/Time (Eastern)	Interval Start Date is a date representing the starting date/time (MM/DD/YYYY HH:MM:SS am) of the interval, expressed in Eastern prevailing time

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Class: SCD - Stlmnt Results

SCD-level data that is a power supplier's SCD-level settlement results for balancing energy (energy, loss and congestion) in the NYISO markets.

Object Name	Object Description
SCD BalMkt Energy Stlmnt - Gen ($)	Balancing Market Energy Settlement - Generator ($) is a number representing the BAS-determined amount of a generator's balancing energy market energy component settlement
SCD BalMkt Loss Stlmnt - Gen ($)	Balancing Market Loss Settlement - Generator ($) is a number representing the BAS-determined amount of a generator's balancing energy market loss component settlement
SCD BalMkt Cong Stlmnt - Gen ($)	Balancing Market Congestion Settlement - Generator ($) is a number representing the BAS-determined amount of a generator's balancing energy market congestion component settlement
SCD Total BalMkt Stlmnt - Gen ($)	Total Balancing Market Settlement - Generator ($) is a number representing the BAS-determined amount of a generator's total balancing energy market settlement; sum of the balancing energy market energy, loss, and congestion component settlements

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Class: SCD - Billing Determinants

SCD-level data that are required inputs into a power supplier's settlement for balancing energy (energy, loss and congestion) in the NYISO markets.

Object Name	Object Description
SCD Gen Adjusted Energy (MW)	Generator Adjusted Energy (MW) is a number representing the BAS-determined output of the generator for the interval. It is calculated by allocating Hourly Gen Meter Energy (MWh) provided by the Transmission Owners) to the SCD level based upon Average Actual (MW) (captured for NYISO SCADA and integrated by PTS).
SCD Gen Avg Actual Energy (MW)	Generator Average Actual Energy (MW) is a number representing average actual output of a generator over the SCD interval. It is the average of the 6-second-level data coming from the NYISO SCADA system. The data element is used along with the Hourly Generator Meter Energy (MWh) as provided by the Transmission Owner to determine Generator Adjusted Energy (MW).
SCD AGC Basepoint (MW)	Automatic Generation Control Basepoint (MW) is a number representing the amount of generator energy scheduled, including generator regulation control, by the NYISO during real-time dispatch for the generator; ~6 second time intervals communicated to the generator to support real-time generation dispatch
SCD Basepoint (MW)	Security Constrained Dispatch Basepoint (MW) is a number representing the average amount of energy scheduled by the NYISO during the real-time dispatch for the generator; calculated over approximately 5 minute time intervals communicated to support generation dispatch
SCD Energy Pmt Limit (MW)	Energy Payment Limit (MW) is a number representing the maximum amount of generation for which a balancing market energy payment is applicable
SCD RT Sched Trans (MW)	Real-Time Scheduled Transaction (MW) is a number representing the total amount of transaction energy for all transactions injected at a given generator, for an SCD interval.
SCD RT Energy Price - Gen ($/MW)	Real-Time Energy Price ($/MW) is a number representing the price of energy at a generator bus (LBMP energy component)
SCD RT Loss Price - Gen ($/MW)	Real-Time Loss Price ($/MW) is a number representing the price of loss at a generator bus (LBMP loss component)
SCD RT Cong Price - Gen ($/MW)	Real-Time Congestion Price ($/MW) is a number representing the price of congestion at a generator bus (LBMP congestion component)
SCD RT Total Price - Gen ($/MW)	Total Real-Time Price ($/MW) is a number representing the total LBMP price of a load bus
SCD Gen BalMkt Energy (MWh)	Generation Balancing Market Energy (MWh) is a number representing the total amount of energy that is settled in the NYISO Balancing Market for a given generator for a given SCD interval. The value is determined as follows: Generato Adjusted Energy - Day-Ahead Scheduled Energy - (RT Transactions Scheduled - DA Transactions Scheduled)

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Hr DAM Sched Gen (MW)	Day Ahead Scheduled Generation (MW) is a number representing the amount of generation scheduled by the NYISO for the given generator in the Day Ahead Market (total scheduled for a generator in the DAM, including day-ahead scheduled transactions and NYISO Day-Ahead Market energy sales)
Hr DAM Sched Trans (MW)	Day Ahead Scheduled Transactions (MW) is a number representing the total amount of energy scheduled by the NYISO for all transactions for a given generator, for a given hour
Hr Gen Meter Energy (MWh)	Generator Metered Energy (MWh) is a number representing the amount of settlement-quality metered generation for the hour for the given generator. This value is provided by the individual transmission owners and is allocated to the SCD level by the NYISO using SCD Gen Avg Actual Energy (MW)
SCD In Service Ind	In Service Indicator is a character representing whether or not the generator is in service (physically connected and providing energy onto the NYISO electrical grid)
SCD Interval Seconds	SCD Interval Seconds is a number representing the number of seconds in the SCD interval
SCD On Control Ind	5260 - On Control Indicator is a character representing whether or not the generator is on NYISO regulation control
Out of Merit Type ID	Out of Merit Type ID is a number representing the reason for an out of economic merit dispatch for the given generator and SCD interval.
Out of Merit Type Description	5220 - Out of Merit Type Description represents the reason for an out of economic merit dispatch for the given generator and SCD interval
SCD PURPA Units Class Type	PURPA Class Type is a character representing the class of the PURPA Generator (Class 1 or Class 2)

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Class: SCD - Other Related Info

SCD-level data that is considered to be other useful information related to a power supplier's settlement for balancing energy (energy, loss and congestion) in the NYISO markets.

Object Name	Object Description
SCD Gen Avg Actual Energy (MWh)	Generator Average Actual Energy (MWh) is a number representing the SCD interval average output of a generator. It is the average of the 6 second-level data coming from the NYISO SCADA system.
SCD RT Sched Trans (MWh)	Real-Time Total Scheduled Transaction (MWh) is a number representing the total amount of transaction energy for all transactions, injected at a given generator, scheduled for an SCD interval
Reserve Pickup Ind	Reserve Pick Up Indicator is an character which indicates whether the SCD interval was initiated as a reserve pickup.
Dispatch Type Description	Dispatch Type Description represents the reason for a generator's dispatch, whether a normal dispatch, reserve pickup, backup dispatch mode, or max gen pickup
SCD On Dispatch Ind	On Dispatch Indicator is a character representing whether or not the generator is being dispatched by the NYISO
SCD PURPA Units Class Type Eff Date	
SCD Gen-Org Eff Date	Generator-Organization Effective Date is a date representing when the generator became part of the billing organization.

Class: Real Time BPCG Settlement

Settlement data related to a power supplier's NYISO Real Time Bid Production Cost Guarantee settlements; contains settlement results, intermediate results, billing determinants (general, DAM generation bid, HAM generation bid, and net ancillary service revenue sub-classes), and other related data sub-classes.

Object Name	Object Description
Invoice Version Number	Invoice Version Number is a number representing the invoice version number for which the given set of settlements data was invoiced on; a version number =0 represent the current set of un-invoiced settlement data; invoice version numbers >0 represent the version number of invoiced settlement data (incremented each time it is updated and invoiced)
Interval Start Day (Eastern)	101 - Interval Start Day is a date representing the starting day of the interval, expressed in Eastern prevailing time
Interval Start Hour (Eastern)	102 - Interval Start Hour is a number representing the starting hour for the interval (hour beginning 0-23), expressed in Eastern prevailing time
Interval Start Date/Time (Eastern)	Interval Start Date is a date representing the starting date/time (MM/DD/YYYY HH:MM:SS am) of the interval, expressed in Eastern prevailing time

Class: Settlements Results (RT BPCG)

Daily-level data element that is a power supplier's settlement results for real time bid production cost guarantee in the NYISO markets.

Object Name	Object Description
Day RT BPCG Stlmnt ($)	305 - Real-Time Bid Production Cost Guarantee Settlement ($) is a number representing the BAS-determined real-time bid production cost guarantee settlement for the given generator

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Class: Intermediate Calculations (RT BPCG)

Daily, hourly, and SCD-level data elements that are determined during the calculation of a power supplier's settlement for real time bid production cost guarantee in the NYISO markets.

Object Name	Object Description
Day RT Total Net Rev ($)	Daily Real-Time Total Net Revenue ($) is a number representing the amount of total net balancing market energy and HAM ancillary service revenues (difference between costs and revenues) for the given day and generator
Hr RT Total Net Rev ($)	210 - Hourly Real-Time Total Net Revenue ($) is a number representing the amount of total net balancing market energy and HAM ancillary service revenues (difference between costs and revenues) for the given hour and generator
Hr RT Net AS Rev ($)	Hourly Real-Time Net Ancillary Service Revenue ($) is a number representing the amount of total net balancing market ancillary service revenues (amount of cost greater than revenues) for the given hour and generator
Hr RT Net Energy Rev ($)	Hourly Real-Time Net Energy Revenue ($) is a number representing the amount of total net balancing market energy revenues (amount of cost greater than revenues) for the given hour and generator
SCD RT Net Energy Rev ($)	SCD-level Real-Time Net Energy Revenue ($) is a number representing the amount of total net balancing market energy revenues (amount of cost greater than revenues) for the given SCD dispatch interval and generator
SCD RT Net Energy Cost ($)	Real-Time Net Energy Cost ($) is a number representing the amount of total balancing market energy cost (derived from energy bid curves and schedules) for the given SCD dispatch interval and generator
SCD Total BalMkt Stlmnt - Gen ($)	Total Balancing Market Settlement - Generator ($) is a number representing the BAS-determined amount of a generator's total balancing energy market settlement; sum of the balancing energy market energy, loss, and congestion component settlements

Class: Billing Determinants (RT BPCG)

Hourly and SCD-level data that are required inputs into a power supplier's settlement (energy and ancillary service components) for real time bid production cost guarantee in the NYISO markets; contains DAM Gen Bid, HAM Gen Bid, and Net AS Revenue sub-classes.

Object Name	Object Description
SCD AGC Basepoint (MW)	Automatic Generation Control Basepoint (MW) is a number representing the amount of generator energy scheduled, including generator regulation control, by the NYISO during real-time dispatch for the generator; ~6 second time intervals communicated to the generator to support real-time generation dispatch
SCD Basepoint (MW)	Security Constrained Dispatch Basepoint (MW) is a number representing the average amount of energy scheduled by the NYISO during the real-time dispatch for the generator; calculated over approximately 5 minute time intervals communicated to support generation dispatch
SCD Gen Adjusted Energy (MW)	Generator Adjusted Energy (MW) is a number representing the BAS-determined output of the generator for the interval. It is calculated by allocating Hourly Gen Meter Energy (MWh) provided by the Transmission Owners) to the SCD level based upon Average Actual (MW) (captured for NYISO SCADA and integrated by PTS).
SCD Energy Pmt Limit (MW)	Energy Payment Limit (MW) is a number representing the maximum amount of generation for which a balancing market energy payment is applicable
SCD RT Sched Trans (MW)	Real-Time Scheduled Transaction (MW) is a number representing the total amount of transaction energy for all transactions injected at a given generator, for an SCD interval.
SCD RT Energy Price - Gen ($/MW)	Real-Time Energy Price ($/MW) is a number representing the price of energy at a generator bus (LBMP energy component)
SCD RT Loss Price - Gen ($/MW)	Real-Time Loss Price ($/MW) is a number representing the price of loss at a generator bus (LBMP loss component)
SCD RT Cong Price - Gen ($/MW)	Real-Time Congestion Price ($/MW) is a number representing the price of congestion at a generator bus (LBMP congestion component)
SCD RT Total Price - Gen ($/MW)	Total Real-Time Price ($/MW) is a number representing the total LBMP price of a load bus
Day RT Startup Cost ($)	Daily Real Time Startup Cost ($) is a number representing the amount of real time startup costs for a generator for the given day
Hr DAM Sched Gen (MW)	Day Ahead Scheduled Generation (MW) is a number representing the amount of generation scheduled by the NYISO for the given generator in the Day Ahead Market (total scheduled for a generator in the DAM, including day-ahead scheduled transactions and NYISO Day-Ahead Market energy sales)
Hr DAM Sched Trans (MW)	Day Ahead Scheduled Transactions (MW) is a number representing the total amount of energy scheduled by the NYISO for all transactions for a given generator, for a given hour

SCD BalMkt Energy Stlmnt - Gen ($)	Balancing Market Energy Settlement - Generator ($) is a number representing the BAS-determined amount of a generator's balancing energy market energy component settlement
SCD BalMkt Loss Stlmnt - Gen ($)	Balancing Market Loss Settlement - Generator ($) is a number representing the BAS-determined amount of a generator's balancing energy market loss component settlement
SCD BalMkt Cong Stlmnt - Gen ($)	Balancing Market Congestion Settlement - Generator ($) is a number representing the BAS-determined amount of a generator's balancing energy market congestion component settlement
Hr Eligible For Mingen Ind	5230 - Eligible for MinGen Indicator is a character (Y,N) representing whether a generator is eligible for a BPCG payment for a given hour. The value is derived from Out of Merit Type ID.
Out of Merit Type ID	Out of Merit Type ID is a number representing the reason for an out of economic merit dispatch for the given generator and SCD interval.
Out of Merit Type Description	5220 - Out of Merit Type Description represents the reason for an out of economic merit dispatch for the given generator and SCD interval
SCD In Service Ind	In Service Indicator is a character representing whether or not the generator is in service (physically connected and providing energy onto the NYISO electrical grid)
Reserve Pickup Ind	Reserve Pick Up Indicator is an character which indicates whether the SCD interval was initiated as a reserve pickup.
SCD Interval Seconds	SCD Interval Seconds is a number representing the number of seconds in the SCD interval
SCD On Control Ind	5260 - On Control Indicator is a character representing whether or not the generator is on NYISO regulation control
SCD On Dispatch Ind	On Dispatch Indicator is a character representing whether or not the generator is being dispatched by the NYISO
SCD PURPA Units Class Type	PURPA Class Type is a character representing the class of the PURPA Generator (Class 1 or Class 2)
SCD PURPA Units Class Type Eff Date	

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Class: Net AS Revenue

Hourly-level data that are required inputs into a power supplier's settlement (ancilllary service net revenue component) for real time bid production cost guarantee in the NYISO markets.

Object Name	Object Description
Hr HAM AS Bid Reg -Pr ($/MW)	Hour Ahead Market Ancillary Service 10 Minute Sync Reserve Bid Price ($/MW) is a number representing the bid price of 10 minute sync reserve service during the interval, submitted by the Generator in an ancillary service bid
Hr HAM AS Bid -10Sync Price ($/MW)	Hour Ahead Market Ancillary Service 10 Minute Sync Reserve Bid Price ($/MW) is a number representing the bid price of 10 minute sync reserve service during the interval, submitted by the Generator in an ancillary service bid
Hr DAM Sched Reg Avail (MW)	217 - Day Ahead Market Scheduled Regulation Availability (MW) is a number representing the amount of regulation availability scheduled by the NYISO for the given generator in the Day Ahead Market
Hr DAM Sched 10Sync Avail (MW)	Day Ahead Market Scheduled 10 Minute Sync Reserve Availability (MW) is a number representing the amount of 10 minute sync reserve availability scheduled by the NYISO for the given generator in the Day Ahead Market
Hr HAM Sched 10SyncRes Avail (MW)	Hour Ahead Scheduled 10 Minute Sync Reserve Availability (MW) is a number representing the amount of 10 minute sync reserve availability scheduled by the NYISO for the given generator in the Hour Ahead Market
Hr HAM Sched Reg Avail (MW)	219 - Hour Ahead Scheduled Regulation Availability (MW) is a number representing the amount of regulation availability scheduled by the NYISO for the given generator in the Hour Ahead Market
Hr HAM 10Sync Avail Stlmnt ($)	'Hour Ahead Market 10 Minute Sync Reserve Availability Settlement ($) is a number representing the BAS-determined HAM 10 minute sync reserve settlement for the generator for the interval
Hr HAM Reg Avail Stlmnt ($)	Hour Ahead Market Regulation Availability Settlement ($) is a number representing the BAS-determined HAM regulation settlement for the generator for the interval
Hr Reg Energy Margin ($)	
Hr 10Sync LOC Stlmnt ($)	240 - 10 Minute Sync Reserve Lost Opportunity Cost Settlement ($) is a number representing the BAS-determined 10 minute sync reserve lost opportunity cost settlement for the generator for the interval
Hr VSS LOC Stlmnt ($)	215 - Voltage Support Service Lost Opportunity Cost Settlement ($) is a number representing the BAS-determined voltage support service lost opportunity cost settlement for the generator for the interval

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Class: DAM Gen Bid

Hourly-level Day Ahead Market generation bid data that is a required input into a power supplier's settlement (energy cost component) for real time bid production cost guarantee in the NYISO markets.

Object Name	Object Description
Hr DAM Gen Bid Type Ind	Day Ahead Market Generation Bid Type Indicator is a character representing the type of DAM generation bid submitted by the generator (block or curve)
Hr DAM Gen Bid -Min Gen Cost ($)	Day Ahead Market Generator Bid Minimum Generation Cost is a number representing the generation cost ($) of operating at the minimum generation level during the interval, submitted by the Generator in a generation bid
Hr DAM Gen Bid -Min Gen (MW)	Day Ahead Market Generator Bid Minimum Generation is a number representing the minimum generation level (MW) for the generator during the interval, submitted by the Generator in a generation bid
Hr DAM Gen Bid -Gen 1 (MW)	Day Ahead Market Generator Bid Generation #1 is a number representing the amount of generation (MW) bid in the first block during the interval, submitted by the Generator in a generation bid
Hr DAM Gen Bid -Gen 2 (MW)	Day Ahead Market Generator Bid Generation #2 is a number representing the amount of generation (MW) bid in the second block during the interval, submitted by the Generator in a generation bid
Hr DAM Gen Bid -Gen 3 (MW)	Day Ahead Market Generator Bid Generation #3 is a number representing the amount of generation (MW) bid in the third block during the interval, submitted by the Generator in a generation bid
Hr DAM Gen Bid -Gen 4 (MW)	Day Ahead Market Generator Bid Generation #4 is a number representing the amount of generation (MW) bid in the fourth block during the interval, submitted by the Generator in a generation bid
Hr DAM Gen Bid -Gen 5 (MW)	Day Ahead Market Generator Bid Generation #5 is a number representing the amount of generation (MW) bid in the fifth block during the interval, submitted by the Generator in a generation bid
Hr DAM Gen Bid -Gen 6 (MW)	Day Ahead Market Generator Bid Generation #6 is a number representing the amount of generation (MW) bid in the sixth block during the interval, submitted by the Generator in a generation bid
Hr DAM Gen Bid -Price 1 ($/MW)	Day Ahead Market Generator Bid Price #1 is a number representing the bid price of generation ($/MW) bid in the first block during the interval, submitted by the Generator in a generation bid
Hr DAM Gen Bid -Price 2 ($/MW)	Day Ahead Market Generator Bid Price #2 is a number representing the bid price of generation ($/MW) bid in the second block during the interval, submitted by the Generator in a generation bid
Hr DAM Gen Bid -Price 3 ($/MW)	Day Ahead Market Generator Bid Price #3 is a number representing the bid price of generation ($/MW) bid in the third block during the interval, submitted by the Generator in a generation bid

Hr DAM Gen Bid -Price 4 ($/MW)	Day Ahead Market Generator Bid Price #4 is a number representing the bid price of generation ($/MW) bid in the fourth block during the interval, submitted by the Generator in a generation bid
Hr DAM Gen Bid -Price 5 ($/MW)	Day Ahead Market Generator Bid Price #5 is a number representing the bid price of generation ($/MW) bid in the fifth block during the interval, submitted by the Generator in a generation bid
Hr DAM Gen Bid -Price 6 ($/MW)	Day Ahead Market Generator Bid Price #6 is a number representing the bid price of generation ($/MW) bid in the sixth block during the interval, submitted by the Generator in a generation bid
DAM Gen Bid Dispatch Seg - Block	Day Ahead Market Generation Bid Dispatch Segments - Block is a number representing the number of segments in the given DAM generation bid (block generation bid type).
DAM Gen Bid Dispatch Seg - Curve	Day Ahead Market Generation Bid Dispatch Segments - Curve is a number representing the number of segments in the given DAM generation bid (curve generation bid type).

Class: HAM Gen Bid

Hourly-level Hour Ahead Market generation bid data that is a required input into a power supplier's settlement (energy cost component) for real time bid production cost guarantee in the NYISO markets.

Object Name	Object Description
Hr HAM Gen Bid Type Ind	Hour Ahead Market Generation Bid Type Indicator is a character representing the type of HAM generation bid submitted by the generator (block or curve)
Hr HAM Gen Bid -Min Gen Cost ($)	Hour Ahead Market Generator Bid Minimum Generation Cost is a number representing the generation cost ($) of operating at the minimum generation level during the interval, submitted by the Generator in a generation bid
Hr HAM Gen Bid -Min Gen (MW)	Hour Ahead Market Generator Bid Minimum Generation is a number representing the minimum generation level (MW) for the generator during the interval, submitted by the Generator in a generation bid
Hr HAM Gen Bid -Gen 1 (MW)	Hour Ahead Market Generator Bid Generation #1 is a number representing the amount of generation (MW) bid in the first block during the interval, submitted by the Generator in a generation bid
Hr HAM Gen Bid -Gen 2 (MW)	Hour Ahead Market Generator Bid Generation #2 is a number representing the amount of generation (MW) bid in the second block during the interval, submitted by the Generator in a generation bid
Hr HAM Gen Bid -Gen 3 (MW)	Hour Ahead Market Generator Bid Generation #3 is a number representing the amount of generation (MW) bid in the third block during the interval, submitted by the Generator in a generation bid
Hr HAM Gen Bid -Gen 4 (MW)	Hour Ahead Market Generator Bid Generation #4 is a number representing the amount of generation (MW) bid in the fourth block during the interval, submitted by the Generator in a generation bid
Hr HAM Gen Bid -Gen 5 (MW)	Hour Ahead Market Generator Bid Generation #5 is a number representing the amount of generation (MW) bid in the fifth block during the interval, submitted by the Generator in a generation bid
Hr HAM Gen Bid -Gen 6 (MW)	Hour Ahead Market Generator Bid Generation #6 is a number representing the amount of generation (MW) bid in the sixth block during the interval, submitted by the Generator in a generation bid
Hr HAM Gen Bid -Price 1 ($/MW)	Hour Ahead Market Generator Bid Price #1 is a number representing the bid price of generation ($/MW) bid in the first block during the interval, submitted by the Generator in a generation bid
Hr HAM Gen Bid -Price 2 ($/MW)	Hour Ahead Market Generator Bid Price #2 is a number representing the bid price of generation ($/MW) bid in the second block during the interval, submitted by the Generator in a generation bid
Hr HAM Gen Bid -Price 3 ($/MW)	Hour Ahead Market Generator Bid Price #3 is a number representing the bid price of generation ($/MW) bid in the third block during the interval, submitted by the Generator in a generation bid

Hr HAM Gen Bid -Price 4 ($/MW)	Hour Ahead Market Generator Bid Price #4 is a number representing the bid price of generation ($/MW) bid in the fourth block during the interval, submitted by the Generator in a generation bid
Hr HAM Gen Bid -Price 5 ($/MW)	Hour Ahead Market Generator Bid Price #5 is a number representing the bid price of generation ($/MW) bid in the fifth block during the interval, submitted by the Generator in a generation bid
Hr HAM Gen Bid -Price 6 ($/MW)	Hour Ahead Market Generator Bid Price #6 is a number representing the bid price of generation ($/MW) bid in the sixth block during the interval, submitted by the Generator in a generation bid
HAM Gen Bid Dispatch Seg - Block	Hour Ahead Market Generation Bid Dispatch Segments - Block is a number representing the number of segments in the given HAM generation bid (block generation bid type).
HAM Gen Bid Dispatch Seg - Curve	Hour Ahead Market Generation Bid Dispatch Segments - Curve is a number representing the number of segments in the given HAM generation bid (curve generation bid type).

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Class: Other Related Info (RT BPCG)

Data that is considered to be other useful information related to a power supplier's settlement for real time bid production cost guarantee in the NYISO markets.

Object Name	Object Description
OOM Flag	5200 - Generator Out of Merit Flag is a character representing whether or not the given generator was dispatched out of economic merit order during the interval
Dispatch Type Description	Dispatch Type Description represents the reason for a generator's dispatch, whether a normal dispatch, reserve pickup, backup dispatch mode, or max gen pickup
SCD Price Base Limit (MW)	SCD Price Base Limit (MW) is a number representing the energy value on a generator's bid curve corresponding to the generation market price for that location.
SCD Ramp Rate (MW/min)	SCD Ramp Rate (MW/min) is a number representing the response rate that a unit can adjust output up or down.
SCD Regulation Margin (MW)	SCD Regulation Margin (MW) is a number representing the amount of generation which is reserved below a unit's high operating limit and above a unit's low operating limit to allow for regulation. It equals the regulating response rate in MW/minute times five minutes.
SCD Economic Basepoint (MW)	SCD Economic Basepoint (MW) is a number representing the dispatch basepoint at which a generator would be economically dispatched. This dispatch value does not include any adjustments due to system reliability and/or constraints (out of merit).
SCD Instantaneous (MW)	SCD Instantaneous (MW) is a number representing the instantaneous output of a generator at the beginning of the SCD interval
Hr HAM AS Bid -10Sync Avail (MW)	"Hour Ahead Market Ancillary Service Bid 10 Minute Sync Avail (MW) is a number representing the MW's bid for 10 minute sync reserve service during the interval, submitted by the Generator in an ancillary service bid.
Hr HAM AS Bid Reg Avail (MW)	Hour Ahead Market Ancillary Service Bid Regulation Avail (MW) is a number representing the amount of regulation availability for the hour submitted by the Generator in an ancillary service bid
Hr DAM Start Up Cost ($)	Day Ahead Market Startup Cost ($) is a number representing the amount of generator DAM start-up cost used by SCUC (DAM unit commitment)
Hr HAM Startup Cost ($)	Hour Ahead Market Startup Cost ($) is a number representing the amount of startup cost determined by the NYISO (using provided startup cost curves) for the generator in the Hour Ahead Market
Hr NYISO DAM Energy (MW)	202 - NYISO Day-Ahead Market Energy (MW) is a number representing the amount of generation settled in the NYISO Day-Ahead Market

SCD RT Sched Trans (MWh)	Real-Time Total Scheduled Transaction (MWh) is a number representing the total amount of transaction energy for all transactions, injected at a given generator, scheduled for an SCD interval

Class: Transaction Contract Schedules

Transaction-level data this is provided as detailed support for summarized generator-level transaction contract schedule data used as billing determinants in a power supplier's settlements.

Object Name	Object Description
TransCnt ID	500 - Transaction Contract ID is a unique number assigned by the NYISO representing the unique identifier for the given transaction contract
TC Org Name	100 - Transaction Contract Billing Organization Name represents the name of the organization, which is responsible for the given transaction contract.
TC Org Contact Name	Transaction Customer Organization Contact Name represents the name of the official contact person for the organization, which is responsible for the given transaction contract.
TC Org Email Address	Transaction Customer Organization Email Address represents the email address of the offical contact person for the organization, which is responsible for the given transaction contract.
TC Org Primary Contact Phone #	Transaction Customer Organization Primary Contact Phone # represents the primary telephone number of the official contact person for the organization, which is responsible for the given transaction contract.
SCD RT Sched Trans (MW)	Real Time Scheduled Transaction Energy (MW) is a number representing the total amount of transaction energy scheduled in real time for a given transaction, injected at a given generator, for an SCD interval.
SCD RT Sched Trans (MWh)	Real Time Scheduled Transaction Energy (MWh) is a number representing the total amount of transaction energy scheduled in real time for a given transaction, injected at a given generator, for an SCD interval.
Hr DAM Sched Trans (MW)	Day Ahead Market Scheduled Transaction Energy (MW) is a number representing the amount of energy scheduled for the given transaction by the NYISO in the Day Ahead Market
Hr HAM Sched Trans (MW)	Hour Ahead Scheduled Transaction Energy (MW) is a number representing the amount of energy scheduled by NYISO in the HAM for the given transaction and hour
Hr RT Sched Trans (MWh)	Real Time Scheduled Transaction Energy (MWh) is a number representing the total amount of transaction energy scheduled in real time for a given transaction, injected at a given generator, for an SCD interval.
Day RT Sched Trans (MWh)	Real Time Scheduled Transaction Energy (MWh) is a number representing the total amount of transaction energy scheduled in real time for a given transaction, injected at a given generator, for an SCD interval.

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Universe: Cust Sttlmt - Transactions

This universe provides access to customer settlements data for NYISO Transaction Customers (transmission usage charges, transaction energy, replacement energy, and external BPCG payments). It contains data that includes: required billing determinants (i.e. price, bids, schedules, etc.), settlement calculation results (currently balancing market TUC's, transaction LBMP energy, replacement energy, and external BPCG payments), and other related data. It provides users with the ability to analyze this data in an ad-hoc fashion using a wide variety of attributes (i.e. by organization, generator, LSE, load bus, time period, time interval, zone, sub-zone, billing version, etc.). Data in the universe can be configured for custom on-line reporting and analysis, to support participant invoice reconciliation processes, and for download to local file.

Class: Month

Dimensional data which describes the following year, quarter, and month time intervals (month name, month name abbreviation, quarter number, year number, etc.).

Object Name	Object Description
Month Name	Month Name represents the name of the month (e.g. January, February)
Month Name Abbrev	Month Name Abbreviation is a set of characters representing a common abbreviation of the name of the month (e.g. JAN, FEB)
Month of Year	Month of Year represents the numerical representation of the month (e.g. January = 01, February = 02)
Month Stamp	Month Stamp is a date representing the month in a MM/01/YYYY format.
Month Year Tag	Month Year Tag represents the month in a mmm-YYYY format.
Quarter Number	Quarter Number represents the numerical representation of the quarter of the year the month falls in (e.g. January = 1, February = 1)
Year Number	Year Number is a number representing the year (YYYY).
Interval Start Month (GMT)	

Class: Day

Dimensional data which describes day-level time descriptions (day of month, day of week, weekend indicator, holiday indicator, etc.).

Object Name	Object Description
Interval Start Day (Eastern)	101 - Interval Start Day (Eastern) is a date representing the starting day of the interval (MM/DD/YYYY), expressed in Eastern prevailing time
Interval Start Day (GMT)	Interval Start Day (GMT) is a date representing the starting day of the interval (MM/DD/YYYY), expressed in greenwich mean time
Interval End Day (GMT)	Interval End Day (GMT) is a date representing the ending day of the interval (MM/DD/YYYY), expressed in greenwich mean time
Day of Month	Day of Month is a number representing the day of the month (values are from 1 to 31).
Day Name	Day Name represents the name of the day (e.g. Sunday, Monday)
Day of Week	Day of Week is a number representing the day in the week (Sunday=1, Monday=2).
Holiday Ind	Holiday Indicator is a character representing whether or not the day is a holiday (values are Y or N).
Weekday Ind	Weekday Indicator is a character representing whether or not the day is a weekday (Monday-Friday) (values are Y or N).
Weekend Ind	Weekend Indicator is a character representing whether or not the day is a weekend day (Saturday or Sunday) (values are Y or N).
EST-EDT Time Switch Ind	Weekend Indicator is a character representing whether or not the day is a weekend day (Saturday or Sunday) (values are Y or N).
Time Zone	
Capability Period	Capability Period represents the capability period that the day falls in (either Winter or Summer)
Julian Billing Date	Julian Billing Date is a number that represents the billing date (in numerical format).
Invoice Day Out Scheduled Ind	
Payment Due Date Ind	

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Class: Hour

Dimensional data which describes hour-level time descriptions (interval start hour (eastern)).

Object Name	Object Description
Interval Start Hour (Eastern)	102 - Interval Start Hour (Eastern) is a number representing the starting hour for the interval (hour beginning 0-23), expressed in Eastern prevailing time
DA Eastern Hour Stamp Tag	
DT Eastern Hour Stamp Tag	
Date Hour (Eastern)	
Date Hour (GMT)	

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Class: SCD

Dimensional data which describes SCD-level time descriptions (i.e. interval start minute, interval start second, SCD interval seconds, etc.).

Object Name	Object Description
Interval Start Minute	Interval Start Minute is a number representing the starting minute of the interval (0-59)
Interval Start Second	Interval Start Second is a number representing the starting second of the interval (0-59)
Interval Start Date/Time (Eastern)	Interval Start Date (Eastern) is a date representing the starting date/time (MM/DD/YYYY HH:MM:SS AM) of the interval, expressed in Eastern prevailing time
Interval Start Date/Time (GMT)	Interval Start Date (GMT) is a date representing the starting date/time (MM/DD/YYYY HH:MM:SS am) of the interval, expressed in greenwich mean time
SCD Interval Seconds	SCD Interval Seconds is a number representing the number of seconds in the SCD interval
SCD Interval End Date	
Created PTS Interval Ind	
DA Eastern Time Stamp Tag	
DT Eastern Time Stamp Tag	
Dispatch Type Code	
Dispatch Type Description	Dispatch Type Description represents the reason for a generator's dispatch, whether a normal dispatch, reserve pickup, backup dispatch mode, or max gen pickup
Reserve Pickup Ind	Reserve Pick Up Indicator is an character which indicates whether the SCD interval was initiated as a reserve pickup (values are Y or N).

Class: Invoice Version

Dimensional data which describes invoice versions (billing day, invoice version #, invoice date, etc.).

Object Name	Object Description
Invoice Billing Day	Invoice Billing Day is a date representing the operation / trade day the billing data is for.
Invoice Billing Run Date	Invoice Billing Run Date is the date representing the date / time the Invoice Version was created.
Invoice Version Number	Invoice Version Number is a number representing the version for an invoice; a version number =0 represent the current set of un-invoiced settlement data; invoice version numbers > 0 represent billed invoice settlement data.
Invoice Billing Month	Invoice Billing Month is a date representing the month the billing data is for.
Invoice Date	Invoice Date is a date representing the date / time the invoice was posted.
Stlmnt Type Desc	Settlement Type Description represents the reason the settlement interval is being invoiced on the given invoice (values are Initial Settlement, Rebill, 4 Month Settlement, 8 Month Settlement, 12 Month Settlement, 24 Month Settlement).
Earliest Version Ind	Earliest Version Indicator is a character representing whether or not the given invoice version is the earliest (initial) version for the given billing month (values are Y or N).
Latest Version Ind	Latest Version Indicator is a character representing whether or not the given invoice version is the latest (most current) version (invoiced or not) for the given billing month (values are Y or N).
Invoice Posted Ind	Invoice Posted Indicator is a character representing whether or not the given invoice has been posted for customer access (values are Y or N).
Latest Invoiced Version Ind	Latest Invoiced Version Indicator is a character representing whether or not the given invoice version is the latest (most current) version that has been invoiced for the given billing month (values are Y or N).
Sortable Invoice Version Number	
Billing Version Update Date	Billing Version Update Date is a date representing the day the given billing version was captured into the NYISO DSS.

Class: Transaction Contracts

Dimensional data which describes a transaction contract (i.e. transaction contract id, transaction contract user reference, etc.); contains Transaction Contract NERC Tag and Transaction Contract Contact Info sub-classes.

Object Name	Object Description
TransCnt ID	500 - Transaction Contract ID is a unique number assigned by the NYISO representing the unique identifier for the given transaction contract
TransCnt User Ref	Transaction Contract User Reference represents the information entered by the bidding agent on a Transaction Bid which is used to identify transactions internal to the organization; also is used to inform the NYISO of grandfathered transmission rights
TransCnt Transaction Category	Transaction Contract Transaction Category represents the category of the given transaction contract (values are I-Import, E-Export, W-Wheelthrough, N-Internal).
TransCnt Priority Desc	Transaction Contract Priority Description represents the priority assigned to the given transaction contract; used to determine priority of the transaction when curtailments are necessary.
TransCnt NERC Priority ID	Transaction Contract NERC Priority ID is a number representing the priority assigned to the given transaction contract; used to determine priority of the transaction when curtailments are necessary.
TransCnt NERC Priority Desc	Transaction Contract NERC Priority Description represents the priority assigned to the given transaction contract; used to determine priority of the transaction when curtailments are necessary.
TransCnt Emergency Ind	
TransCnt Firm Trans Ind	Transaction Contract Firm Transmission Indicator is a character which represents whether the transaction contract is for firm transmission (values Y or N).
TransCnt GdFthr Rights Ind	Transaction Contract Grandfathered Rights Indicator is a character which represents whether the transaction contract represents a grandfathered transmission right (values are Y or N).
TransCnt ISO RefBus Ind	Transaction Contract NYISO Reference Bus Indicator is a character representing whether or not the given transaction contract is sourced from or sunk at the NYISO reference bus (values are Y or N).
TransCnt Pre Scheduled Ind	
TransCnt PURPA Contract Ind	Transaction Contract Public Utility Regulatory Policy Act Contract Indicator is a character which represents whether the given transaction contract is subject to PURPA regulations (values are Y or N).

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Class: Transaction Contract NERC Tag

Dimensional data which describes the NERC Tag related-characteristics of transaction contracts (NERC tag receiving control area, transaction priority, transaction category, etc.).

Object Name	Object Description
TransCnt NERC Tag PSE Num	Tranasaction Contract NERC Tag Purchasing-Selling-Entity Number is a number representing the organization (purchasing selling entity) defined on the NERC Tag for the given transaction contract, following guidelines from the North American Electric Reliability Council.
TransCnt NERC Tag PSE	Trnasaction Contract NERC Tag Purchasing-Selling-Entity represents the name of the organization (purchasing selling entity) defined on the NERC Tag for the given transaction contract, following guidelines from the North American Electric Reliability Council.
TransCnt NERC Tag Recv CA	Transaction Contract NERC Tag Receiving Control Area represents the control area defined on the NERC Tag which contains the sink is for the given transaction contract, following guidelines from the North American Electric Reliability Council.
TransCnt NERC Tag Send CA	Transaction Contract NERC Tag Sending Control Area represents the control area defined on the NERC Tag which contains the source is for the given transaction contract, following guidelines from the North American Electric Reliability Council.

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Class: Transaction Contract Contact Info

Dimensional data which describes contact information for a transaction contract (transaction contract address lines (1-5), transaction contract contact name, transaction contract email address, etc.).

Object Name	Object Description
TransCnt Contact Name	Transaction Contract Contact Name represents the name of the contact person for the transaction contract billing organization.
TransCnt Primary Contact Phone #	Transaction Contract Primary Contact Phone # represents the primary telephone number for the contact person for the transaction contract billing organization.
TransCnt Secondary Contact Phon #	Transaction Contract Secondary Contact Phone # represents the secondary telephone number for the contact person for the transaction contract billing organization.
TransCnt Address Line 1	Transaction Contract Address Line 1 represents the first line of the mail address of the offical contact person for the transaction contract billing organization.
TransCnt Address Line 2	Transaction Contract Address Line 2 represents the second line of the mail address of the offical contact person for the transaction contract billing organization.
TransCnt Address Line 3	Transaction Contract Address Line 3 represents the third line of the mail address of the offical contact person for the transaction contract billing organization.
TransCnt Address Line 4	Transaction Contract Address Line 4 represents the fourth line of the mail address of the offical contact person for the transaction contract billing organization.
TransCnt Address Line 5	Transaction Contract Address Line 5 represents the fifth line of the mail address of the offical contact person for the transaction contract billing organization.
TransCnt Email Address	Transaction Contract Email Address represents the email address of the contact person for the transaction contract billing organization.
TransCnt Pager #	Transaction Contract Pager # is the pager number for the contact person for the transaction contract billing organization.
TransCnt Fax #	Transaction Contract Fax # represent the fax number for the contact person for the transaction contract billing organization.

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Class: Transaction Customer Organization

Dimensional data which describes the organization responsible for a transaction contract (organization name, organization type indicator, etc.); contains Transaction Contract Contact Info and Transaction Contract Bid Indicators sub-classes.

Object Name	Object Description
TC Org Name	100 - Transaction Contract Billing Organization Name represents the name of the organization, which is responsible for the given transaction contract.
TC Tariff Signed Ind	Transaction Customer Tariff Signed Indicator is a character representing whether or not the organization has signed the NYISO Market Administration and Control Area Services Tariff (MST), and/or the NYISO Open Access Transmission Tariff (OATT)
TC Org Type Desc	Transaction Customer Organization Type Description represents the name of the type of organization, which is responsible for the given transaction contract.
TC Org Active Ind	Transaction Customer Organization Active Indicator is a character representing whether or not the organization, which is responsible for the given transaction contract, is active in the NYISO marketplace (values are Y or N).
TC Agreement Ref No	
TC Org Qual Ind	Transaction Customer Organization Qualified Indicator is a character which represents whether or nor the billing organization, which is responsible for the given transaction contract, is approved to participate in the NYISO market (values are Y or N).

Class: Transaction Customer Contact Info

Dimensional data which describes contact information for the organization responsible for a transaction contract (organization address lines (1-5), organization contact name, organization email address, etc.).

Object Name	Object Description
TC Org Contact Name	Transaction Customer Organization Contact Name represents the name of the official contact person for the organization, which is responsible for the given transaction contract.
TC Org Address Line 1	Transaction Customer Organization Address Line 1 represents the first line of the mail address of the offical contact person for the organization, which is responsible for the given transaction contract.
TC Org Address Line 2	Transaction Customer Organization Address Line 2 represents the second line of the mail address of the offical contact person for the organization, which is responsible for the given transaction contract.
TC Org Address Line 3	Transaction Customer Organization Address Line 3 represents the third line of the mail address of the offical contact person for the organization, which is responsible for the given transaction contract.
TC Org Address Line 4	Transaction Customer Organization Address Line 4 represents the fourth line of th mail address of the offical contact person for the organization, which is responsible for the given transaction contract.
TC Org Address Line 5	Transaction Customer Organization Address Line 5 represents the fifth line of the mail address of the offical contact person for the organization, which is responsible for the given transaction contract.
TC Org Email Address	Transaction Customer Organization Email Address represents the email address of the offical contact person for the organization, which is responsible for the given transaction contract.
TC Org Fax #	Transaction Customer Organization Fax # represents the fax number of the official contact person for the organization, which is responsible for the given transaction contract.
TC Org Pager #	Transaction Customer Organization Pager # represents the pager number of the official contact person for the organization, which is responsible for the given transaction contract.
TC Org Primary Contact Phone #	Transaction Customer Organization Primary Contact Phone # represents the primary telephone number of the official contact person for the organization, which is responsible for the given transaction contract.
TC Org Secondary Contact Phone :	Transaction Customer Organization Secondary Contact Phone # represents the secondary telephone number of the official contact person for the organization, which is responsible for the given transaction contract.

Class: Transaction Customer Bid Indicators

Dimensional data which describes the bidding approvals/limits determined by NYSIO for the organization responsible for a transaction contract (DAM generation bid indicator, load bid indicator, virtual bid limit, etc.).

Object Name	Object Description
TC DAM Trans Cust Bid Ind	Transaction Customer Hour Ahead Market Transmission Customer Bid Indicator represents whether or not the organization, which is responsible for the given transaction contract, is approved for Hour Ahead Market transmission customer bidding (vaules are Y or N).
TC DAM Gen Bid Ind	Transaction Customer Day Ahead Market Generation Bid Indicator represents whether or not the organization, which is responsible for the given transaction contract, is approved for Day Ahead Market generation bidding (values are Y or N).
TC HAM Trans Cust Bid Ind	HAM Transmission Customer Bid Indicator represents whether or not the organization is approved for Hour Ahead Market transmission customer bidding
TC HAM Gen Bid Ind	Transaction Customer Hour Ahead Market Generation Bid Indicator represents whether or not the organization, which is responsible for the given transaction contract, is approved for Hour Ahead Market generation bidding (values are Y or N).
TC ICAP Bid Ind	Transaction Customer Installed Capacity Bid Indicator represents whether or not the organization, which is responsible for the given transaction contract, is approved for Installed Capacity market bidding (values are Y or N).
TC Load Bid Ind	Transaction Customer Load Bid Indicator represents whether or not the organization, which is responsible for the given transaction contract, is approved for NYISO load bidding (values are Y or N).
TC NonFirm Trans Cust Bid Ind	Transaction Customer Non-Firm Transmission Customer Bid Indicator represents whether or not the organization, which is responsible for the given transaction contract, is approved for Non-Firm transmission customer bidding (values are Y or N).
TC TCC Bid Ind	Transaction Customer Transmission Congestion Contract Bid Indicator represents whether or not the organization, which is responsible for the given transaction contract, is approved for Transmission Congestion Contract market bidding (values are Y or N).
TC Virtual Load Bid Ind	Transaction Customer Virtual Load Bid Indicator represents whether or not the organization, which is responsible for the given transaction contract, is approved for Virtual Load bidding (values are Y or N).
TC Virtual Supply Bid Ind	Transaction Customer Virtual Supply Bid Indicator represents whether or not the organization, which is responsible for the given transaction contract, is approved for Virtual Supply bidding (values are Y or N).

TC Virtual Bid Limit (MW)	Transaction Customer Virtual Bid Limit (MW) is a number representing the maximum amount of energy the organization, which is responsible for the given transaction contract, is approved to bid into the NYISO virtual bid market.

Class: Source Organization

Dimensional data which describes the organization responsible for a transaction contract's source location (organization name); contains Source Zone / Subzone sub-class.

Object Name	Object Description
Src Org Name	Source Organization Name represents the name of an organization, which is responsible for the given generator representing the source of the given transactio contract
Src Org Contact Name	Source Organization Contact Name represents the name of the official contact person for the organization, which is responsible for the generator representing the source of the given transaction contract.
Src Org Email Address	Source Organization Email Address represents the email address of the offical contact person for the organization, which is responsible for the source of the giver transaction contract.
Src Org Primary Contact Phone #	Source Organization Primary Contact Phone # represents the primary telephone number of the official contact person for the organization, which is responsible for the source of the given transaction contract.

Class: Source Zone / Subzone

Dimensional data which describes the zone and subzone containing the transaction contract's source location (zone name, zone PTID, subzone name, subzone PTID).

Object Name	Object Description
Src Zone PTID	Source Zone PTID is a number representing the unique point identifier for a zone, which contains the source for the given transaction contract.
Src Zone Name	Source Zone Name represents the full name of the zone, which contains the source for the given transaction
Src Subzone PTID	Source Subzone PTID is a number representing the unique point identifier for a subzone, which contains the source for the given transaction contract.
Src Subzone Name	Source Subzone Name represents the full name of the subzone, which contains the source for the given transaction

Class: Generator

Dimensional data which describes the generator representing the source location of the transaction contract (generator name, generator PTID).

Object Name	Object Description
TransCnt Gen Name	Transaction Contract Generator Name represents the full name of the Generator, which represents the source of the given transaction contract
TransCnt Gen PTID	Transaction Contract Generator PTID is a number representing the unique point identifier for the Generator, which represents the source of the given transaction contract.
TransCnt Gen Contact Name	Transaction Contract Generator Contact Name represents the name of the official contact person for the Generator, which represents the source of the given transaction contract.
TransCnt Gen Email Address	Transaction Contract Generator Email Address represents the email address of the offical contact person for the generator, which is representing the source of the given transaction contract.
TransCnt Gen Primary Contact Phone	Transaction Contract Generator Primary Contact Phone # represents the primary telephone number of the official contact person for the Generator, which represent the source of the given transaction contract.

Class: Sink Organization

Dimensional data which describes the organization responsible for a transaction contract's sink location (organization name); contains Sink Zone / Subzone sub-class.

Object Name	Object Description
Sink Org Name	Sink Organization Name represents the name of an organization, which is responsible for the given load bus representing the sink of the given transaction contract
Sink Org Contact Name	Sink Organization Contact Name represents the name of the official contact person for the organization, which is responsible for the load bus representing the sink of the given transaction contract.
Sink Org Email Address	Sink Organization Email Address represents the email address of the offical contact person for the organization, which is responsible for the load bus representing the sink of the given transaction contract.
Sink Org Primary Contact Phone #	Sink Organization Primary Contact Phone # represents the primary telephone number of the official contact person for the organization, which is responsible for the load bus representing the sink of the given transaction contract.

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Class: Sink Zone / Subzone

Dimensional data which describes the zone and subzone containing the transaction contract's sink location (zone name, zone PTID, subzone name, subzone PTID).

Object Name	Object Description
Sink Zone PTID	Sink Zone PTID is a number representing the unique point identifier for a zone, which contains the load bus representing the given sink location of the transaction.
Sink Zone Name	Sink Zone Name represents the full name of the zone, which contains the load bus representing the given sink location of the transaction.
Sink Subzone PTID	Sink Subzone PTID is a number representing the unique point identifier for a subzone, which contains the load bus representing the sink of the given transactio contract.
Sink Subzone Name	Sink Subzone Name represents the full name of the subzone, which contains the load bus representing the sink of the given transaction contract.

Class: Load Serving Entity

Dimensional data which describes a load serving entity responsible for the load bus representing the sink location for the transaction contract (load serving entity name, load serving entity PTID).

Object Name	Object Description
TransCnt LSE Name	400 - Transaction Contract Load Serving Entity Name represents the full name of the load serving entity, which is responsible for the load bus representing the sink for the given transaction contract.
TransCnt LSE PTID	Transaction Contract Load Serving Entity PTID is a number representing the unique point identifier for a load serving entity, which is responsible for the load bu representing the sink for the given transaction contract.
TransCnt LSE Contact Name	Transaction Contract Load Serving Entity Contact Name represents the name of the official contact person for the load serving entity, which is responsible for the load bus representing the sink for the given transaction contract.
TransCnt LSE Email Address	Transaction Contract Load Serving Entity Email Address represents the email address of the offical contact person for the load serving entity which is representing the sink of the given transaction contract.
TransCnt LSE Primary Contact Phone	Transaction Contract Load Serving Entity Primary Contact Phone # represents the primary telephone number of the official contact person for the load serving entity, which is responsible for the load bus representing the sink for the given transaction contract.

Class: Load Bus

Dimensional data which describes a load bus representing the sink location for the transaction contract (load bus name, load bus PTID).

Object Name	Object Description
TransCnt Load Bus Name	Transaction Contract Load Bus Name represents the name of the load bus, which represents the sink of the given transaction contract.
TransCnt Load Bus PTID	Transaction Contract Load Bus PTID is a number representing the unique point identifier for the load bus, which represents the sink of the given transaction contract.

Class: BalMkt LBMP Energy Settlement

Settlements data related to a transaction customer's NYISO Balancing Market LBMP Energy settlements; contains daily, hourly, and SCD-level sub-classes, which contain settlement results, billing determinants, and other related data sub-classes.

Object Name	Object Description
Invoice Version Number	Invoice Version Number is a number representing the version for an invoice; a version number =0 represent the current set of un-invoiced settlement data; invoice version numbers > 0 represent billed invoice settlement data.

Class: Daily (BalMkt LBMP Stlmnt)

Daily-level settlement data related to a transaction customer's settlement for balancing LBMP energy (energy, loss and congestion) in the NYISO markets; includes Daily Settlement Results and Daily Other Related Info sub-classes.

Object Name	Object Description
Interval Start Day (Eastern)	101 - Interval Start Day is a date representing the starting day of the interval, expressed in Eastern prevailing time

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Class: Daily - Stlmnt Results (LBMP)

Daily-level data that is a summation of a transaction customer's SCD-level settlement results for balancing LBMP energy (energy, loss and congestion) in the NYISO markets.

Object Name	Object Description
Day BalMkt LBMP Engy Stlmnt ($)	764 - Balancing Market LBMP Energy Settlement (Energy Component) is a number representing the BAS-determined LBMP energy energy component settlement for the given transaction in the NYISO balancing market
Day BalMkt LBMP Loss Stlmnt ($)	765 - Balancing Market LBMP Energy Settlement Loss Component) is a number representing the BAS-determined LBMP energy loss component settlement for the given transaction in the NYISO balancing market
Day BalMkt LBMP Cong Stlmnt ($)	766 - Balancing Market LBMP Energy Settlement (Congestion Component) is a number representing the BAS-determined balancing market LBMP energy congestion component settlement for the given transaction
Day BalMkt Total LBMP Stlmnt ($)	767 - Balancing Market Total LBMP Energy Settlement is a number representing the BAS-determined LBMP energy total settlement for the given transaction in the NYISO balancing market; is the sum of the balancing market LBMP energy, loss, and congestion components

Class: Daily - Other Related Info (LBMP)

Daily-level data that is considered to be other useful information related to a transaction customer's settlement for balancing LBMP energy (energy, loss and congestion) in the NYISO markets.

Object Name	Object Description
Day BalMkt LBMP Energy (MWh)	763 - Balancing Market LBMP Energy (MWh) is a number representing the BAS-determined amount of balancing market LBMP energy for the given transaction
Day RT Sched Trans (MWh)	Real-Time Scheduled Transaction Energy (MWh) is a number representing the total amount of transaction energy scheduled in real time for a given transaction, for an SCD interval
Day RT Incr Sched Trans (MWh)	Real Time Incremental Scheduled Transaction Energy (MWh) is a number representing the additional amount of energy scheduled in Real Time (above the DAM scheduled energy) for a given generator.
Day Gen-Org Eff Date	Generator-Organization Effective Date is a date representing when the generator became part of the billing organization.
Day Load Bus - LSE Eff Date	Load Bus - LSE Effective Date is a date representing when the load bus became part of the LSE.
Day LSE-Org Eff Date	Load Serving Entity-Organization Effective Date is a date representing when the LSE became part of the billing organization.
Day TransCnt Org - Trans Eff Date	

Class: Hourly (BalMkt LBMP Stlmnt)

Hourly-level settlement data related to a transaction customer's settlement for balancing LBMP energy (energy, loss and congestion) in the NYISO markets; includes Hourly Settlement Results and Hourly Other Related Info sub-classes.

Object Name	Object Description
Interval Start Day (Eastern)	101 - Interval Start Day is a date representing the starting day of the interval, expressed in Eastern prevailing time
Interval Start Hour (Eastern)	102 - Interval Start Hour is a number representing the starting hour for the interval (hour beginning 0-23), expressed in Eastern prevailing time

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Class: Hourly - Stlmnt Results (LBMP)

Hourly-level data that is a summation of a transaction customer's SCD-level settlement results for balancing LBMP energy (energy, loss and congestion) in the NYISO markets.

Object Name	Object Description
Hr BalMkt LBMP Engy Stlmnt ($)	517 - Balancing Market LBMP Energy Settlement (Energy Component) is a number representing the BAS-determined LBMP energy energy component settlement for the given transaction in the NYISO balancing market
Hr BalMkt LBMP Loss Stlmnt ($)	518 - Balancing Market LBMP Energy Settlement Loss Component) is a number representing the BAS-determined LBMP energy loss component settlement for the given transaction in the NYISO balancing market
Hr BalMkt LBMP Cong Stlmnt ($)	519 - Balancing Market LBMP Energy Settlement (Congestion Component) is a number representing the BAS-determined balancing market LBMP energy congestion component settlement for the given transaction
Hr BalMkt Total LBMP Stlmnt ($)	518 - Balancing Market Total LBMP Energy Settlement is a number representing the BAS-determined LBMP energy total settlement for the given transaction in the NYISO balancing market; is the sum of the balancing market LBMP energy, loss, and congestion components

Class: Hourly - Other Related Info (LBMP)

Hourly-level data that is considered to be other useful information related to a transaction customer's settlement for balancing LBMP energy (energy, loss and congestion) in the NYISO markets.

Object Name	Object Description
Hr BalMkt LBMP Energy (MWh)	516 - Balancing Market LBMP Energy (MWh) is a number representing the BAS-determined amount of balancing market LBMP energy for the given transaction
Hr RT Sched Trans (MWh)	Real-Time Scheduled Transaction Energy (MWh) is a number representing the total amount of transaction energy scheduled in real time for a given transaction, for an SCD interval
Hr RT Incr Sched Trans (MWh)	Real Time Incremental Scheduled Transaction Energy (MWh) is a number representing the additional amount of energy scheduled in Real Time (above the DAM scheduled energy) for a given generator.
Hr Gen-Org Eff Date	Generator-Organization Effective Date is a date representing when the generator became part of the billing organization.
Hr Load Bus - LSE Eff Date	Load Bus - LSE Effective Date is a date representing when the load bus became part of the LSE.
Hr LSE-Org Eff Date	Load Serving Entity-Organization Effective Date is a date representing when the LSE became part of the billing organization.
Hr TransCnt Org - Trans Eff Date	

Class: SCD (BalMkt LBMP Stlmnt)

SCD-level settlement data related to a transaction customer's settlement for balancing LBMP energy (energy, loss and congestion) in the NYISO markets; includes SCD Settlement Results, SCD Billing Determinants, and SCD Other Related Info sub-classes.

Object Name	Object Description
Interval Start Day (Eastern)	101 - Interval Start Day is a date representing the starting day of the interval, expressed in Eastern prevailing time
Interval Start Hour (Eastern)	102 - Interval Start Hour is a number representing the starting hour for the interval (hour beginning 0-23), expressed in Eastern prevailing time
Interval Start Date/Time (Eastern)	Interval Start Date is a date representing the starting date/time (MM/DD/YYYY HH:MM:SS am) of the interval, expressed in Eastern prevailing time

Class: SCD - Stlmnt Results (LBMP)

SCD-level data that is a transaction customer's SCD-level settlement results for balancing LBMP energy (energy, loss and congestion) in the NYISO markets.

Object Name	Object Description
SCD BalMkt LBMP Engy Stlmnt ($)	Balancing Market LBMP Energy Settlement (Energy Component) is a number representing the BAS-determined LBMP energy energy component settlement for the given transaction in the NYISO balancing market
SCD BalMkt LBMP Loss Stlmnt ($)	Balancing Market LBMP Energy Settlement Loss Component) is a number representing the BAS-determined LBMP energy loss component settlement for the given transaction in the NYISO balancing market
SCD BalMkt LBMP Cong Stlmnt ($)	Balancing Market LBMP Energy Settlement (Congestion Component) is a number representing the BAS-determined balancing market LBMP energy congestion component settlement for the given transaction
SCD BalMkt Total LBMP Stlmnt ($)	Balancing Market Total LBMP Energy Settlement is a number representing the BAS-determined LBMP energy total settlement for the given transaction in the NYISO balancing market; is the sum of the balancing market LBMP energy, loss, and congestion components

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Class: SCD - Billing Determinants (LBMP)

SCD-level data that are required inputs into a transaction customer's settlement for balancing LBMP energy (energy, loss and congestion) in the NYISO markets.

Object Name	Object Description
SCD RT Energy Price -Sink ($/MW	Real-Time Energy Price - Sink ($/MW) is a number representing the real-time price of energy component at the sink load bus LBMP per interval
SCD RT Energy Price -Src ($/MW)	Real-Time Energy Price - Source ($/MW) is a number representing the real-time price of energy component at the source generator LBMP per interval
SCD RT Loss Price -Sink ($/MW)	Real-Time Loss Price - Sink ($/MW) is a number representing the real-time price of loss component at the sink load bus LBMP per interval
SCD RT Loss Price -Src ($/MW)	Real-Time Loss Price - Source ($/MW) is a number representing the real-time price of loss component at the source generator LBMP per interval
SCD RT Cong Price -Src ($/MW)	Real-Time Congestion Price - Source ($/MW) is a number representing the real-time price of congestion component at the source generator LBMP per interval
SCD RT Cong Price -Sink ($/MW)	Real-Time Congestion Price - Sink ($/MW) is a number representing the real-time price of congestion component at the sink load bus LBMP per interval
SCD RT Total Price - Sink ($/MW)	Real-Time Total Price - Sink ($/MW) is a number representing the total real-time price at a generator bus (LBMP energy component + LBMP losses component - LBMP congestion component)
SCD RT Total Price - Src ($/MW)	Real-Time Total Price - Source ($/MW) is a number representing the total real-time price at a load bus (LBMP energy component + LBMP losses component - LBMP congestion component)
SCD RT Sched Trans (MW)	Real Time Scheduled Transaction Energy (MW) is a number representing the total amount of transaction energy scheduled in real time for a given transaction, for an SCD interval.
SCD BalMkt LBMP Energy (MWh)	Balancing Market LBMP Energy (MWh) is a number representing the BAS-determined amount of balancing market LBMP energy for the given transaction
Hr DAM Sched Trans (MW)	Day Ahead Market Scheduled Transaction Energy (MW) is a number representing the amount of energy scheduled for the given transaction by the NYISO in the Day Ahead Market
Hr DAM Trans Bid Fixed Energy (MW)	Day Ahead Market Transaction Bid Fixed Energy (MW) is a number representing the amount of energy being bid into the NYISO DAM for the given transaction, submitted by a transaction customer on a transaction bid
Hr HAM Trans Bid Fixed Energy (MW)	Hour Ahead Market Transaction Bid Fixed Energy (MW) is a number representing the amount of energy being bid into the NYISO HAM for the given transaction, submitted via a transaction bid

Trans Type	Transaction Type represents the type of the given transaction (LBMP, TUC with replacement, TUC w/o replacement)
Interface Const Ind - Gen	Interface Constrained Indicator - Generator is a character representing whether or not the external transmission interface, for the generator representing the source location, is constrained for the given interval; used to determine which set of market prices (BME, RT) are used in the balancing market transaction settlements
Interface Const Ind - Load	Interface Constrained Indicator - Load is a character representing whether or not the external transmission interface, for the load bus representing the sink location, is constrained for the given interval; used to determine which set of market prices (BME, RT) are used in the balancing market transaction settlements
TransCnt Transaction Category	Transaction Contract Transaction Category represents the category of the given transaction contract (values are I-Import, E-Export, W-Wheelthrough, N-Internal).
SCD Interval Seconds	SCD Interval Seconds is a number representing the number of seconds in the SCD interval
Trans Cut By Desc	Transaction Cut By Description represents the organization who required the cut to the given transaction (market participant, NYISO, other control area, etc.)

Class: SCD - Other Related Info (LBMP)

SCD-level data that is considered to be other useful information related to a transaction customer's settlement for balancing LBMP energy (energy, loss and congestion) in the NYISO markets.

Object Name	Object Description
SCD RT Sched Trans (MWh)	Real Time Scheduled Transaction Energy (MWh) is a number representing the total amount of transaction energy scheduled in real time for a given transaction, injected at a given generator, for an SCD interval.
SCD RT Incr Sched Trans (MWh)	Real Time Incremental Scheduled Transaction Energy (MWh) is a number representing the additional amount of energy scheduled in Real Time (above the DAM scheduled energy) for a given generator.
SCD RT Incr Sched Trans (MW)	Real Time Incremental Scheduled Transaction Energy (MW) is a number representing the additional amount of energy scheduled in Real Time (above the DAM scheduled energy) for a given generator.
Cut Transaction Flag	Cut Transaction Flag is a character representing whether or not the given transaction was cut/curtailed for the given SCD interval in real time
Curtailed Indicator	Curtailed Indicator is a value that represents whether the transaction has been curtailed.
Hr DAM Ind	
Hr HAM Ind	

Class: BalMkt Replacemnt Energy Settlement

Settlements data related to a transaction customer's NYISO Balancing Market Replacement Energy settlements; contains daily, hourly, and SCD-level sub-classes, which contain settlement results, billing determinants, and other related data sub-classes.

Object Name	Object Description
Invoice Version Number	Invoice Version Number is a number representing the version for an invoice; a version number =0 represent the current set of un-invoiced settlement data; invoice version numbers > 0 represent billed invoice settlement data.

Class: Daily (BalMkt Repl Stlmnt)

Daily-level settlement data related to a transaction customer's settlement for balancing replacement energy (energy, loss and congestion) in the NYISO markets; includes Daily Settlement Results and Daily Other Related Info sub-classes.

Object Name	Object Description
Interval Start Day (Eastern)	101 - Interval Start Day is a date representing the starting day of the interval, expressed in Eastern prevailing time

Class: Daily - Stlmnt Results (Repl)

Daily-level data that is a summation of a transaction customer's SCD-level settlement results for balancing replacement energy (energy, loss and congestion) in the NYISO markets.

Object Name	Object Description
Day BalMkt Repl Engy Stlmnt ($)	Balancing Market Replacement Energy -Energy Component Settlement ($) is a number representing the BAS-determined amount of balancing market replacement energy energy component settlement for the given transaction and interval; created due to a real-time cut to or curtailment of the given transaction
Day BalMkt Repl Loss Stlmnt ($)	Balancing Market Replacement Energy -Loss Component Settlement ($) is a number representing the BAS-determined amount of balancing market replacement energy loss component settlement for the given transaction and interval; created due to a real-time cut to or curtailment of the given transaction
Day BalMkt Repl Cong Stlmnt ($)	Balancing Market Replacement Energy -Congestion Component Settlement ($) is number representing the BAS-determined amount of balancing market replacement energy congestion component settlement for the given transaction and interval; created due to a real-time cut to or curtailment of the given transactio
Day Total BalMkt Repl Stlmnt ($)	Total Balancing Market Replacement Energy Settlement ($) is a number representing the BAS-determined amount of total balancing market replacement energy settlement for the given transaction and interval; it is the sum of the balancing market replacement energy energy, loss, and congestion component settlements

Class: Daily - Other Related Info (Repl)

Daily-level data that is considered to be other useful information related to a transaction customer's settlement for balancing replacement energy (energy, loss and congestion) in the NYISO markets.

Object Name	Object Description
Day BalMkt Repl Energy (MWh)	Balancing Market Replacement Energy (MWh) is a number representing the amount of energy subject to NYISO balancing market replacement energy settlements/charges

Class: Hourly (BalMkt Repl Stlmnt)

Hourly-level settlement data related to a transaction customer's settlement for balancing replacement energy (energy, loss and congestion) in the NYISO markets; includes Hourly Settlement Results and Hourly Other Related Info sub-classes.

Object Name	Object Description
Interval Start Day (Eastern)	101 - Interval Start Day is a date representing the starting day of the interval, expressed in Eastern prevailing time
Interval Start Hour (Eastern)	102 - Interval Start Hour is a number representing the starting hour for the interval (hour beginning 0-23), expressed in Eastern prevailing time

Class: Hourly - Stlmnt Results (Repl)

Hourly-level data that is a summation of a transaction customer's SCD-level settlement results for balancing replacement energy (energy, loss and congestion) in the NYISO markets.

Object Name	Object Description
Hr BalMkt Repl Engy Stlmnt ($)	Balancing Market Replacement Energy -Energy Component Settlement ($) is a number representing the BAS-determined amount of balancing market replacement energy energy component settlement for the given transaction and interval; created due to a real-time cut to or curtailment of the given transaction
Hr BalMkt Repl Loss Stlmnt ($)	Balancing Market Replacement Energy -Loss Component Settlement ($) is a number representing the BAS-determined amount of balancing market replacement energy loss component settlement for the given transaction and interval; created due to a real-time cut to or curtailment of the given transaction
Hr BalMkt Repl Cong Stlmnt ($)	Balancing Market Replacement Energy -Congestion Component Settlement ($) is number representing the BAS-determined amount of balancing market replacement energy congestion component settlement for the given transaction and interval; created due to a real-time cut to or curtailment of the given transactio
Hr Total BalMkt Repl Stlmnt ($)	Total Balancing Market Replacement Energy Settlement ($) is a number representing the BAS-determined amount of total balancing market replacement energy settlement for the given transaction and interval; it is the sum of the balancing market replacement energy energy, loss, and congestion component settlements

Class: Hourly - Other Related Info (Repl)

Hourly-level data that is considered to be other useful information related to a transaction customer's settlement for balancing replacement energy (energy, loss and congestion) in the NYISO markets.

Object Name	Object Description
Hr BalMkt Repl Energy (MWh)	Balancing Market Replacement Energy (MWh) is a number representing the amount of energy subject to NYISO balancing market replacement energy settlements/charges

Class: SCD (BalMkt Repl Stlmnt)

SCD-level settlement data related to a transaction customer's settlement for balancing replacement energy (energy, loss and congestion) in the NYISO markets; includes SCD Settlement Results, SCD Billing Determinants, and SCD Other Related Info sub-classes.

Object Name	Object Description
Interval Start Day (Eastern)	101 - Interval Start Day is a date representing the starting day of the interval, expressed in Eastern prevailing time
Interval Start Hour (Eastern)	102 - Interval Start Hour is a number representing the starting hour for the interval (hour beginning 0-23), expressed in Eastern prevailing time
Interval Start Date/Time (Eastern)	Interval Start Date is a date representing the starting date/time (MM/DD/YYYY HH:MM:SS am) of the interval, expressed in Eastern prevailing time

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Class: SCD - Stlmnt Results (Repl)

SCD-level data that is a transaction customer's SCD-level settlement results for balancing replacement energy (energy, loss and congestion) in the NYISO markets.

Object Name	Object Description
SCD BalMkt Repl Engy Stlmnt ($)	Balancing Market Replacement Energy -Energy Component Settlement ($) is a number representing the BAS-determined amount of balancing market replacement energy energy component settlement for the given transaction and interval; created due to a real-time cut to or curtailment of the given transaction
SCD BalMkt Repl Loss Stlmnt ($)	Balancing Market Replacement Energy -Loss Component Settlement ($) is a number representing the BAS-determined amount of balancing market replacement energy loss component settlement for the given transaction and interval; created due to a real-time cut to or curtailment of the given transaction
SCD BalMkt Repl Cong Stlmnt ($)	Balancing Market Replacement Energy -Congestion Component Settlement ($) is number representing the BAS-determined amount of balancing market replacement energy congestion component settlement for the given transaction and interval; created due to a real-time cut to or curtailment of the given transactio
SCD Total BalMkt Repl Stlmnt ($)	Total Balancing Market Replacement Energy Settlement ($) is a number representing the BAS-determined amount of total balancing market replacement energy settlement for the given transaction and interval; it is the sum of the balancing market replacement energy energy, loss, and congestion component settlements

Class: SCD - Billing Determinants (Repl)

SCD-level data that are required inputs into a transaction customer's settlement for balancing replacement energy (energy, loss and congestion) in the NYISO markets.

Object Name	Object Description
SCD RT Energy Price -Src ($/MW)	Real-Time Energy Price - Source ($/MW) is a number representing the real-time price of energy component at the source generator LBMP per interval
SCD RT Loss Price -Src ($/MW)	Real-Time Loss Price - Source ($/MW) is a number representing the real-time price of loss component at the source generator LBMP per interval
SCD RT Cong Price -Src ($/MW)	Real-Time Congestion Price - Source ($/MW) is a number representing the real-time price of congestion component at the source generator LBMP per interval
SCD RT Total Price - Src ($/MW)	Real-Time Total Price - Source ($/MW) is a number representing the total real-time price at a load bus (LBMP energy component + LBMP losses component - LBMP congestion component)
SCD BalMkt Repl Energy (MWh)	Balancing Market Replacement Energy (MWh) is a number representing the amount of energy subject to NYISO balancing market replacement energy settlements/charges
TransCnt Transaction Category	Transaction Contract Transaction Category represents the category of the given transaction contract (values are I-Import, E-Export, W-Wheelthrough, N-Internal).
Trans Type	Transaction Type represents the type of the given transaction (LBMP, TUC with replacement, TUC w/o replacement)
Interface Const Ind - Gen	Interface Constrained Indicator - Generator is a character representing whether or not the external transmission interface, for the generator representing the source location, is constrained for the given interval; used to determine which set of market prices (BME, RT) are used in the balancing market transaction settlements
SCD Interval Seconds	SCD Interval Seconds is a number representing the number of seconds in the SCD interval
Trans Cut By Desc	Transaction Cut By Description represents the organization who required the cut to the given transaction (market participant, NYISO, other control area, etc.)
Hr DAM Ind	
Hr HAM Ind	

Class: SCD - Other Related Info (Repl)

SCD-level data that is considered to be other useful information related to a transaction customer's settlement for balancing replacement energy (energy, loss and congestion) in the NYISO markets.

Object Name	Object Description
Cut Transaction Flag	Cut Transaction Flag is a character representing whether or not the given transaction was cut/curtailed for the given SCD interval in real time
Curtailed Indicator	Curtailed Indicator is a value that represents whether the transaction has been curtailed.

Class: BalMkt Tran Usage Charge Settlement

Settlements data related to a transaction customer's NYISO Balancing Market Transmission Usage Charge settlements; contains daily, hourly, and SCD-level sub-classes, which contain settlement results, billing determinants, and other related data sub-classes.

Object Name	Object Description
Invoice Version Number	Invoice Version Number is a number representing the version for an invoice; a version number =0 represent the current set of un-invoiced settlement data; invoice version numbers > 0 represent billed invoice settlement data.

Class: Daily (BalMkt TUC Stlmnt)

Daily-level settlement data related to a transaction customer's settlement for balancing market transmission usage charges (loss and congestion) in the NYISO markets; includes Daily Settlement Results and Daily Other Related Info sub-classes.

Object Name	Object Description
Interval Start Day (Eastern)	101 - Interval Start Day is a date representing the starting day of the interval, expressed in Eastern prevailing time

Class: Daily - Stlmnt Results (TUC)

Daily-level data that is a summation of a transaction customer's SCD-level settlement results for balancing market transmission usage charges (loss and congestion) in the NYISO markets.

Object Name	Object Description
Day BalMkt TUC Loss Stlmnt ($)	755 - Balancing Market Transmission Usage Charge Loss Component Settlement ($) is a number representing the BAS-determined amount of balancing market transmission usage charge for loss for the given transaction
Day BalMkt TUC Cong Stlmnt ($)	756 - Balancing Market Transmission Usage Charge Congestion Component Settlement ($) is a number representing the BAS-determined amount of balancing market transmission usage charge for congestion for the given transaction
Day Total BalMkt TUC Stlmnt ($)	757 - Total Balancing Market Transmission Usage Charge Settlement ($) is a number representing the BAS-determined amount of total balancing market transmission usage charges for the given transaction; it is the sum of the balancing market transmission usage charge congestion and loss components

Class: Daily - Other Related Info (TUC)

Daily-level data that is considered to be other useful information related to a transaction customer's settlement for balancing market transmission usage charges (loss and congestion) in the NYISO markets.

Object Name	Object Description
Day BalMkt TUC Sched (MWh)	754 - Balancing Market Transaction Usage Charge Schedule (MWh) is a number representing the amount of energy subject to NYISO balancing market transmission usage charges settlements/charges
Day RT Sched Trans (MWh)	Real-Time Scheduled Transaction Energy (MWh) is a number representing the total amount of transaction energy scheduled in real time for a given transaction, for an SCD interval
Day RT Incr Sched Trans (MWh)	Real Time Incremental Scheduled Transaction Energy (MWh) is a number representing the additional amount of energy scheduled in Real Time (above the DAM scheduled energy) for a given generator.

Class: Hourly (BalMkt TUC Stlmnt)

Hourly-level settlement data related to a transaction customer's settlement for balancing market transmission usage charges (loss and congestion) in the NYISO markets; includes Hourly Settlement Results and Hourly Other Related Info sub-classes.

Object Name	Object Description
Interval Start Day (Eastern)	101 - Interval Start Day is a date representing the starting day of the interval, expressed in Eastern prevailing time
Interval Start Hour (Eastern)	102 - Interval Start Hour is a number representing the starting hour for the interval (hour beginning 0-23), expressed in Eastern prevailing time

Class: Hourly - Stlmnt Results (TUC)

Hourly-level data that is a summation of a transaction customer's SCD-level settlement results for balancing market transmission usage charges (energy, loss and congestion) in the NYISO markets.

Object Name	Object Description
Hr BalMkt TUC Loss Stlmnt ($)	Balancing Market Transmission Usage Charge Loss Component Settlement ($) is a number representing the BAS-determined amount of balancing market transmission usage charge for loss for the given transaction
Hr BalMkt TUC Cong Stlmnt ($)	Balancing Market Transmission Usage Charge Congestion Component Settlement ($) is a number representing the BAS-determined amount of balancing market transmission usage charge for congestion for the given transaction
Hr Total BalMkt TUC Stlmnt ($)	Total Balancing Market Transmission Usage Charge Settlement ($) is a number representing the BAS-determined amount of total balancing market transmission usage charges for the given transaction; it is the sum of the balancing market transmission usage charge congestion and loss components

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Class: Hourly - Other Related Info (TUC)

Hourly-level data that is considered to be other useful information related to a transaction customer's settlement for balancing market transmission usage charges (loss and congestion) in the NYISO markets.

Object Name	Object Description
Hr BalMkt TUC Sched (MWh)	505 - Balancing Market Transaction Usage Charge Schedule (MWh) is a number representing the amount of energy subject to NYISO balancing market transmission usage charges settlements/charges
Hr RT Sched Trans (MWh)	Real-Time Scheduled Transaction Energy (MWh) is a number representing the total amount of transaction energy scheduled in real time for a given transaction, for an SCD interval
Hr RT Incr Sched Trans (MWh)	Real Time Incremental Scheduled Transaction Energy (MWh) is a number representing the additional amount of energy scheduled in Real Time (above the DAM scheduled energy) for a given generator.

Class: SCD (BalMkt TUC Stlmnt)

SCD-level settlement data related to a transaction customer's settlement for balancing market transmission usage charges (loss and congestion) in the NYISO markets; includes SCD Settlement Results, SCD Billing Determinants, and SCD Other Related Info sub-classes.

Object Name	Object Description
Interval Start Day (Eastern)	101 - Interval Start Day is a date representing the starting day of the interval, expressed in Eastern prevailing time
Interval Start Hour (Eastern)	102 - Interval Start Hour is a number representing the starting hour for the interval (hour beginning 0-23), expressed in Eastern prevailing time
Interval Start Date/Time (Eastern)	Interval Start Date is a date representing the starting date/time (MM/DD/YYYY HH:MM:SS am) of the interval, expressed in Eastern prevailing time

Class: SCD - Stlmnt Results (TUC)

SCD-level data that is a transaction customer's SCD-level settlement results for balancing market transmission usage charges (loss and congestion) in the NYISO markets.

Object Name	Object Description
SCD BalMkt TUC Loss Stlmnt ($)	Balancing Market Transmission Usage Charge Loss Component Settlement ($) is a number representing the BAS-determined amount of balancing market transmission usage charge for loss for the given transaction
SCD BalMkt TUC Cong Stlmnt ($)	Balancing Market Transmission Usage Charge Congestion Component Settlement ($) is a number representing the BAS-determined amount of balancing market transmission usage charge for congestion for the given transaction
SCD Total BalMkt TUC Stlmnt ($)	Total Balancing Market Transmission Usage Charge Settlement ($) is a number representing the BAS-determined amount of total balancing market transmission usage charges for the given transaction; it is the sum of the balancing market transmission usage charge congestion and loss components

Class: SCD - Billing Determinants (TUC)

SCD-level data that are required inputs into a transaction customer's settlement for balancing market transmission usage charges (loss and congestion) in the NYISO markets.

Object Name	Object Description
SCD RT Loss Price -Sink ($/MW)	Real-Time Loss Price - Sink ($/MW) is a number representing the real-time price of loss component at the sink load bus LBMP per interval
SCD RT Loss Price -Src ($/MW)	Real-Time Loss Price - Source ($/MW) is a number representing the real-time price of loss component at the source generator LBMP per interval
SCD RT Cong Price -Sink ($/MW)	Real-Time Congestion Price - Sink ($/MW) is a number representing the real-time price of congestion component at the sink load bus LBMP per interval
SCD RT Cong Price -Src ($/MW)	Real-Time Congestion Price - Source ($/MW) is a number representing the real-time price of congestion component at the source generator LBMP per interval
SCD RT Total Price - Sink ($/MW)	Real-Time Total Price - Sink ($/MW) is a number representing the total real-time price at a generator bus (LBMP energy component + LBMP losses component - LBMP congestion component)
SCD RT Total Price - Src ($/MW)	Real-Time Total Price - Source ($/MW) is a number representing the total real-time price at a load bus (LBMP energy component + LBMP losses component - LBMP congestion component)
SCD BalMkt TUC Sched (MWh)	Balancing Market Transaction Usage Charge Schedule (MWh) is a number representing the amount of energy subject to NYISO balancing market transmission usage charges settlements/charges
Hr DAM Sched Trans (MW)	Day Ahead Market Scheduled Transaction Energy (MW) is a number representing the amount of energy scheduled for the given transaction by the NYISO in the Day Ahead Market
Hr DAM Trans Bid Fixed Energy (MW)	Day Ahead Market Transaction Bid Fixed Energy (MW) is a number representing the amount of energy being bid into the NYISO DAM for the given transaction, submitted by a transaction customer on a transaction bid
Hr HAM Sched Trans (MW)	Hour Ahead Scheduled Transaction Energy (MW) is a number representing the amount of energy scheduled by NYISO in the HAM for the given transaction and hour
Hr HAM Trans Bid Fixed Energy (MW)	Hour Ahead Market Transaction Bid Fixed Energy (MW) is a number representing the amount of energy being bid into the NYISO HAM for the given transaction, submitted via a transaction bid
SCD RT Sched Trans (MW)	Real Time Scheduled Transaction Energy (MW) is a number representing the total amount of transaction energy scheduled in real time for a given transaction, for an SCD interval.
TransCnt Transaction Category	Transaction Contract Transaction Category represents the category of the given transaction contract (values are I-Import, E-Export, W-Wheelthrough, N-Internal).

Trans Type	Transaction Type represents the type of the given transaction (LBMP, TUC with replacement, TUC w/o replacement)
Interface Const Ind - Gen	Interface Constrained Indicator - Generator is a character representing whether or not the external transmission interface, for the generator representing the source location, is constrained for the given interval; used to determine which set of market prices (BME, RT) are used in the balancing market transaction settlements
Interface Const Ind - Load	Interface Constrained Indicator - Load is a character representing whether or not the external transmission interface, for the load bus representing the sink location, is constrained for the given interval; used to determine which set of market prices (BME, RT) are used in the balancing market transaction settlements.
SCD Interval Seconds	SCD Interval Seconds is a number representing the number of seconds in the SCD interval
Trans Cut By Desc	Transaction Cut By Description represents the organization who required the cut to the given transaction (market participant, NYISO, other control area, etc.)

Class: SCD - Other Related Info (TUC)

SCD-level data that is considered to be other useful information related to a transaction customer's settlement for balancing market transmission usage charges (loss and congestion) in the NYISO markets.

Object Name	Object Description
SCD RT Sched Trans (MWh)	Real Time Scheduled Transaction Energy (MWh) is a number representing the total amount of transaction energy scheduled in real time for a given transaction, injected at a given generator, for an SCD interval.
SCD RT Incr Sched Trans (MWh)	Real Time Incremental Scheduled Transaction Energy (MWh) is a number representing the additional amount of energy scheduled in Real Time (above the DAM scheduled energy) for a given generator.
SCD RT Incr Sched Trans (MW)	Real Time Incremental Scheduled Transaction Energy (MW) is a number representing the additional amount of energy scheduled in Real Time (above the DAM scheduled energy) for a given generator.
SCD BalMkt TUC Sched (MW)	Balancing Market Transaction Usage Charge Schedule (MW) is a number representing the amount of energy subject to NYISO balancing market transmission usage charges settlements/charges
Cut Transaction Flag	Cut Transaction Flag is a character representing whether or not the given transaction was cut/curtailed for the given SCD interval in real time
Curtailed Indicator	Curtailed Indicator is a value that represents whether the transaction has been curtailed.
Hr DAM Ind	
Hr HAM Ind	

Class: Real Time BPCG Settlement

Settlement data related to a transaction customer's NYISO Real Time Bid Production Cost Guarantee settlements (external generators); contains settlement results, intermediate results, billing determinants, and other related data sub-classes.

Object Name	Object Description
Invoice Version Number	Invoice Version Number is a number representing the version for an invoice; a version number =0 represent the current set of un-invoiced settlement data; invoice version numbers > 0 represent billed invoice settlement data.
Interval Start Day (Eastern)	101 - Interval Start Day is a date representing the starting day of the interval, expressed in Eastern prevailing time
Interval Start Hour (Eastern)	102 - Interval Start Hour is a number representing the starting hour for the interval (hour beginning 0-23), expressed in Eastern prevailing time
Interval Start Date/Time (Eastern)	Interval Start Date is a date representing the starting date/time (MM/DD/YYYY HH:MM:SS am) of the interval, expressed in Eastern prevailing time

Class: Settlements Results (RT BPCG)

Daily-level data element that is a transaction customer's settlement results for real time bid production cost guarantee (external generators) in the NYISO markets.

Object Name	Object Description
Day RT Trans BPCG ($)	769 - Real-Time Transaction Bid Production Cost Guarantee Settlement ($) is a number representing the BAS-determined payment to ensure cost recovery for the given transaction (external generator) in the NYISO balancing market

Class: Intermediate Calculations (RT BPCG)

Hourly and SCD-level data elements that are determined during the calculation of a transaction customer's settlement for real time bid production cost guarantee (external generators) in the NYISO markets.

Object Name	Object Description
Hr RT Trans Net Rev ($)	529 - Hourly Real-Time Transaction Net Revenue ($) is a number representing the BAS-determined amount of balancing market transaction LBMP revenue net of the calculated production cost of the corresponding balancing market energy (for external generators selling energy in the NYISO balancing market)
SCD RT Net Trans Rev ($)	SCD-level Real-Time Net Transaction Revenue ($) is a number representing the BAS-determined amount of balancing market transaction LBMP revenue net of the calculated production cost of the corresponding balancing market energy (for external generators selling energy in the NYISO balancing market)

Class: Billing Determinants (RT BPCG)

Hourly and SCD-level data that are required inputs into a transaction customer's settlement (energy component) for real time bid production cost guarantee (external generators) in the NYISO markets.

Object Name	Object Description
SCD RT Sched Trans (MW)	Real Time Scheduled Transaction Energy (MW) is a number representing the total amount of transaction energy scheduled in real time for a given transaction, injected at a given generator, for an SCD interval.
Hr HAM Trans Bid Decr Dollar ($/MW)	Hour Ahead Market Transaction Bid Decremental Bid Price ($/MW) is a number representing the price at which the NYISO should schedule the given transaction, based on HAM market prices at the proxy buses
SCD BalMkt LBMP Energy (MWh)	"Balancing Market LBMP Energy (MWh) is a number representing the BAS-determined amount of balancing market LBMP energy for the given transaction "
SCD BalMkt LBMP Engy Stlmnt ($)	Balancing Market LBMP Energy Settlement (Energy Component) is a number representing the BAS-determined LBMP energy energy component settlement for the given transaction in the NYISO balancing market
SCD BalMkt LBMP Loss Stlmnt ($)	Balancing Market LBMP Energy Settlement Loss Component) is a number representing the BAS-determined LBMP energy loss component settlement for the given transaction in the NYISO balancing market
SCD BalMkt LBMP Cong Stlmnt ($)	Balancing Market LBMP Energy Settlement (Congestion Component) is a number representing the BAS-determined balancing market LBMP energy congestion component settlement for the given transaction
SCD BalMkt Total LBMP Stlmnt ($)	Balancing Market Total LBMP Energy Settlement is a number representing the BAS-determined LBMP energy total settlement for the given transaction in the NYISO balancing market; is the sum of the balancing market LBMP energy, loss, and congestion components
Hr DAM Sched Trans (MW)	Day Ahead Market Scheduled Transaction Energy (MW) is a number representing the amount of energy scheduled for the given transaction by the NYISO in the Day Ahead Market
TransCnt Transaction Category	Transaction Contract Transaction Category represents the category of the given transaction contract (values are I-Import, E-Export, W-Wheelthrough, N-Internal).
Trans Type	Transaction Type represents the type of the given transaction (LBMP, TUC with replacement, TUC w/o replacement)
SCD Interval Seconds	SCD Interval Seconds is a number representing the number of seconds in the SCD interval

Class: Other Related Info (RT BPCG)

Data that is considered to be other useful information related to a transaction customer's settlement for real time bid production cost guarantee in the NYISO markets.

Object Name	Object Description
SCD RT Sched Trans (MWh)	Real Time Scheduled Transaction Energy (MWh) is a number representing the total amount of transaction energy scheduled in real time for a given transaction, injected at a given generator, for an SCD interval.
SCD RT Incr Sched Trans (MWh)	Real Time Incremental Scheduled Transaction Energy (MWh) is a number representing the additional amount of energy scheduled in Real Time (above the DAM scheduled energy) for a given generator.
SCD RT Incr Sched Trans (MW)	Real Time Incremental Scheduled Transaction Energy (MW) is a number representing the additional amount of energy scheduled in Real Time (above the DAM scheduled energy) for a given generator.
Cut Transaction Flag	Cut Transaction Flag is a character representing whether or not the given transaction was cut/curtailed for the given SCD interval in real time
Curtailed Indicator	Curtailed Indicator is a value that represents whether the transaction has been curtailed.
Hr DAM Ind	
Hr HAM Ind	

Class: Transaction Bid Data

Hourly-level data that is a transaction contract's bid information submitted by the transaction customer; contains DAM Transaction Bid, HAM Transaction Bid, and Non-Firm Transaction Bid sub-classes.

Object Name	Object Description
Hr ICAP Ind	
NFirm Ind	

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Class: DAM Transaction Bid

Hourly-level data that is a transaction contract's Day Ahead Market transaction bid information submitted by the transaction customer (DAM Decremental Bid, DAM Sink Price Cap, DAM NERC Priority, etc.).

Object Name	Object Description
DAM Trans Bid Fixed Energy (MW)	Day Ahead Market Transaction Bid Fixed Energy (MW) is a number representing the amount of energy being bid into the NYISO DAM for the given transaction, submitted by a transaction customer on a transaction bid
DAM Trans Bid Sink Pr Cap ($/MW)	Day Ahead Market Transaction Bid Sink Price Cap ($/MW) is a number representing the price at which the given transaction should be cut at the NYISO proxy buses based on energy prices at the sink load bus
DAM Trans Bid Decr Dollar ($/MW)	Day Ahead Market Transaction Bid Decremental Bid Cost ($/MW) is a number representing the price at which the NYISO should schedule the given transaction, based on DAM market prices at the proxy buses
DAM Trans Bid Buyer Cnfm Flag	Day Ahead Market Transaction Bid Buyer Confirm Flag is a character representing whether or not the buyer has confirmed the given transaction with the NYISO
DAM Trans Bid Seller Cnfm Flag	Day Ahead Market Transaction Bid Seller Confirm Flag is a character representing whether or not the seller has confirmed the given transaction with the NYISO

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Class: HAM Transaction Bid

Hourly-level data that is a transaction contract's Hour Ahead Market transaction bid information submitted by the transaction customer (HAM Decremental Bid, HAM Sink Price Cap, HAM NERC Priority, etc.).

Object Name	Object Description
HAM Trans Bid Fixed Energy (MW)	Hour Ahead Market Transaction Bid Fixed Energy (MW) is a number representing the amount of energy being bid into the NYISO HAM for the given transaction, submitted via a transaction bid
HAM Trans Bid Sink Pr Cap ($/MW)	Hour Ahead Market Transaction Bid Sink Price Cap ($/MW) is a number representing the price at which the given transaction should be cut at the NYISO proxy buses based on energy prices at the sink load bus
HAM Trans Bid Decr Dollar ($/MW)	Hour Ahead Market Transaction Bid Decremental Bid Price ($/MW) is a number representing the price at which the NYISO should schedule the given transaction, based on HAM market prices at the proxy buses
HAM Trans Bid Buyer Cnfm Flag	Hour Ahead Market Transaction Bid Buyer Confirm Flag is a character representing whether or not the buyer has confirmed the given transaction with the NYISO
HAM Trans Bid Seller Cnfm Flag	Hour Ahead Market Transaction Bid Seller Confirm Flag is a character representing whether or not the seller has confirmed the given transaction with the NYISO

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Class: Non-Firm Transaction Bid

Hourly-level data that is a transaction contract's Non-Firm transaction bid information submitted by the transaction customer (NFIRM Decremental Bid, NFIRM Sink Price Cap, NFIRM NERC Priority, etc.).

Object Name	Object Description
NFirm Trans Bid Fixed Enrgy (MW)	Non-Firm Transaction Bid Fixed Energy (MW) is a number representing the amount of energy being bid into the NYISO in real time as Non-Firm for the given transaction, submitted via a transaction bid
NFirm Trans Bid Sink Pric Cp ($/MW)	
NFirm Trans Bid Decr Dollar ($/MW)	Non-Firm Transaction Bid Decremental Bid Cost is a number representing the pric at which the NYISO should schedule the given transaction, based on real time market prices at the proxy buses
NFirm Trans Bid Buyer Cnfm Flag	Non-Firm Transaction Bid Buyer Confirm Flag is a character representing whether or not the buyer has confirmed the given transaction with the NYISO
NFirm Trans Bid Seller Cnfm Flag	Non-Firm Transaction Bid Seller Confirm Flag is a character representing whether or not the seller has confirmed the given transaction with the NYISO