

Introduction to the Installed Capacity (ICAP) Market

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Intermediate ICAP Course

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Intro Topics of Discussion

- Benefits of the NYISO ICAP Market
- Processes & Activities Associated with Managing ICAP Market
- Features of the ICAP Automated Market System (ICAP AMS)

Topic 1: ICAP Market Benefits



ICAP Market Benefits

- Ensures resource adequacy
- Resources recover a portion of fixed costs
- Provides market signal for investment



Benefits of the ICAP Market:

- Ensures resource adequacy
 - Do we have enough?
 - Supply is sufficient to meet load
 - Adhere to reliability standard



Benefits of the ICAP Market:

Recover portion of fixed costs

Variable Costs vs. Fixed Costs



Energy Market

(Market Clearing Prices - LBMPs)



Portion from ICAP
Market

(Auction Clearing Prices)



Benefits of the ICAP Market:

- Market signal for investment
 - Potential Investors:
 - Is it worth building a new plant?
 - Where should I build a new plant?

Do I have the technology to build a plant that is competitive?

Topic 2:

Market Processes & Activities



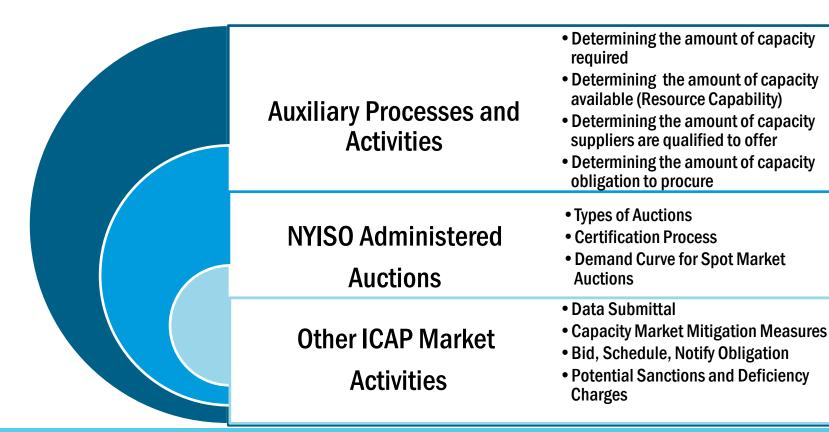


ICAP Market Mechanics









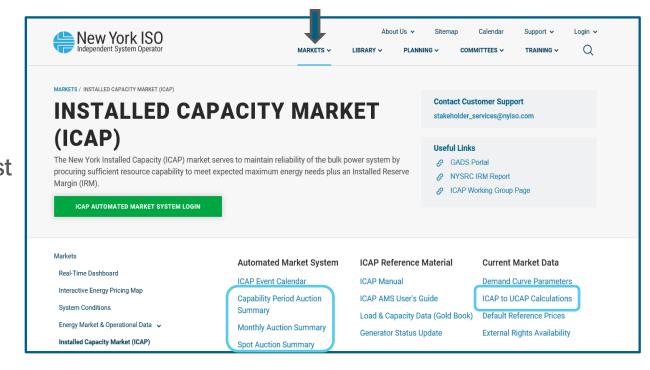
Topic 3: ICAP Automated Market System (ICAP AMS)



- Web-enabled application
- Supports auction preparation requirements
 - Data management, retrieval and general information requirements of participation
 - Transmission Owners enter load forecast and load-shift information
 - Supports NYISO internal administrative functions required to administer the market
 - ICAP Event Calendar



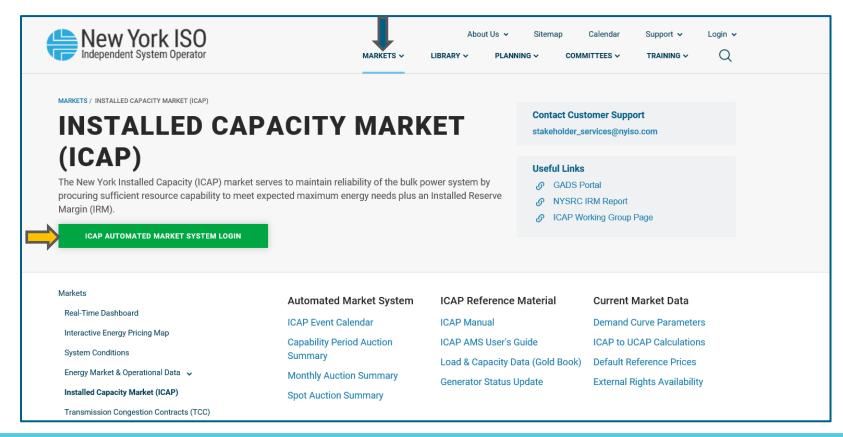
- Public postings produced
 - Auction Data/Results
 - NYCA Load Forecast and UCAP requirements by Transmission District and Municipal Electric Utility





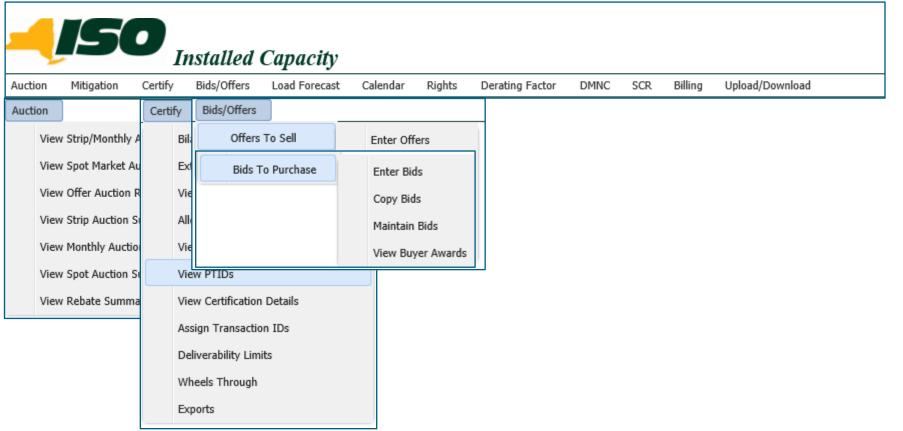
- Secure user-specific data:
 - Load Serving Entities can view UCAP requirements
 - Suppliers can submit and view DMNC information
 - Suppliers may view their Resources' Equivalent Demand Forced Outage Rate (EFORd) ratings over a Capability Period
 - Submit bids/offers
 - Provide certification information for bilateral transactions and for generator allocations
 - View market position
 - Settlement-related information to support customer invoicing





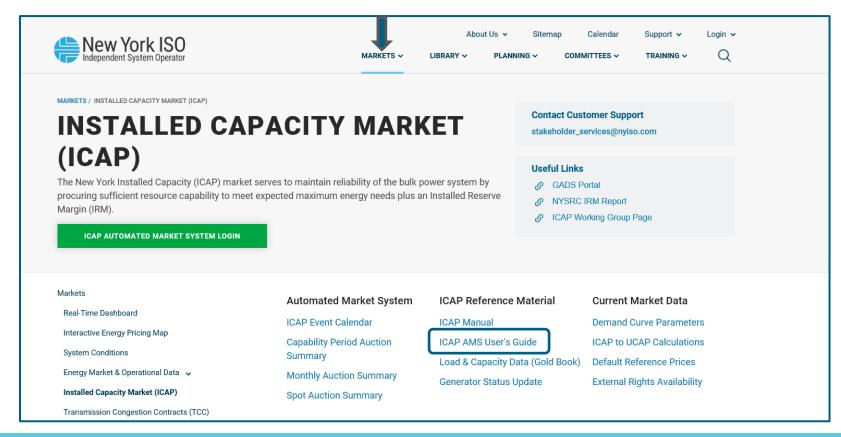


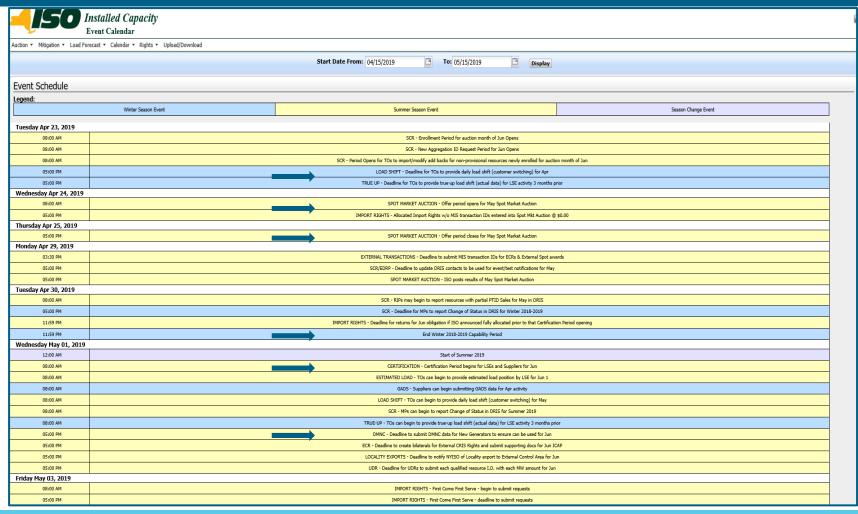
New York ISO Independent System Operator



ICAP AMS Users Guide









Summary

- Benefits of the ICAP Market
- Processes and activities associated with the ICAP Market
 - Capacity Required
 - Resource Capability (Capacity Available)
 - Capacity Suppliers Qualified to Offer
 - Load Serving Entities ("LSE") Obligations
 - ICAP Auctions and Awards
 - ICAP Settlements
 - Capacity Market Mitigation Measures
 - ICAP Sanctions and Deficiencies
- ICAP Automated Market System (ICAP AMS)