

# **Contracts and Communication**

PJM State & Member Training Dept.

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# **Disclaimer:**

PJM has made all efforts possible to accurately document all information in this presentation. The information seen here does not supersede the PJM Operating Agreement or the PJM Tariff both of which can be found by accessing: <a href="http://www.pjm.com/documents/agreements/pjm-agreements.aspx">http://www.pjm.com/documents/agreements/pjm-agreements.aspx</a>

For additional detailed information on any of the topics discussed, please refer to the appropriate PJM manual which can be found by accessing: <a href="http://www.pjm.com/documents/manuals.aspx">http://www.pjm.com/documents/manuals.aspx</a>

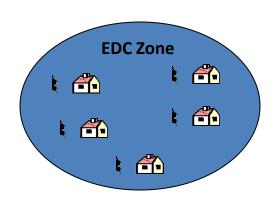


#### Contract Information

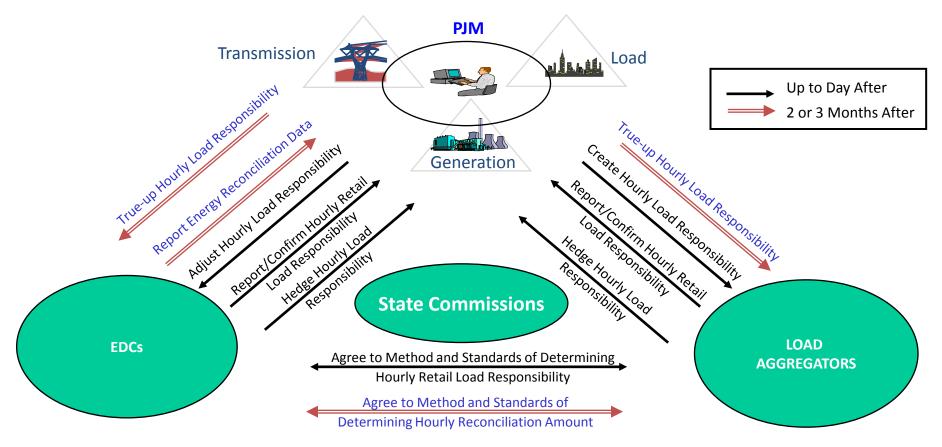
- Pricing
  - Day-ahead automatically carries over to Real-time
  - Real-time
- Contract Name
- Start/Stop date
- Seller, Buyer
  - Both must be PJM Members
- Source, Sink Pricing Points
  - Seller looks like load priced at Source (Charge)
  - Buyer looks like generation priced at Sink (Credit)
  - Buyer pays LMP difference between Source and Sink (congestion and losses)
  - Source/Sink for RLR, WLR and GEN types should be the same
    - See next slides



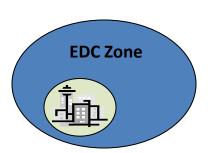
- Contract Information Service Types
  - RLR Retail Load Responsibility
    - Surrogate for Metered Interchange
    - Seller is Retail Load Aggregator, Buyer is EDC
    - Typically entered by EDC (other arrangements)
    - Applied to Balancing Market
    - Typically priced at zonal LMP or Aggregate
    - Source and Sink are the same
    - Used to calculate loads and Load Ratio Shares ("carves" out LSE load from zone)
    - If nothing else done (i.e. IBT, Day ahead, import, generation), LSE charged Energy MW
      \* Source RT LMP



### **PJM Retail Access Energy Model**

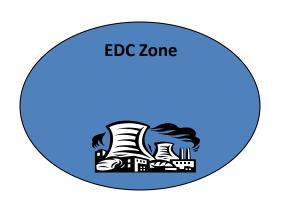


- Contract Information Service Types
  - WLR Wholesale Load Responsibility
    - Surrogate for Metered Interchange
    - Seller is Muni, Co-op (Wholesale customer); Buyer is EDC
    - Generally entered by EDC
    - Applied to Balancing Market
    - Typically priced at Aggregate (must be fully in zone)
    - Source and Sink are the same
    - Used to calculate load and Load Ratio Shares for wholesale entities not fully metered to PJM
    - If nothing else done (i.e. IBT, Day ahead, import, generation), Seller charged Energy
      MW \* Source RT LMP
    - Must coordinate with PJM Market Settlements



#### **Gen Contracts in Power Meter**

- Contract Information Service Types
  - GEN Merchant Generation
  - Entered in Power Meter
    - Surrogate for metered interchange
    - Seller is EDC, Buyer is Generator
    - Generally entered by EDC
    - Applied to Balancing Market
    - Priced at Generator bus
    - Source and Sink are the same
    - Designate merchant generation supply schedules for generators billed directly by PJM



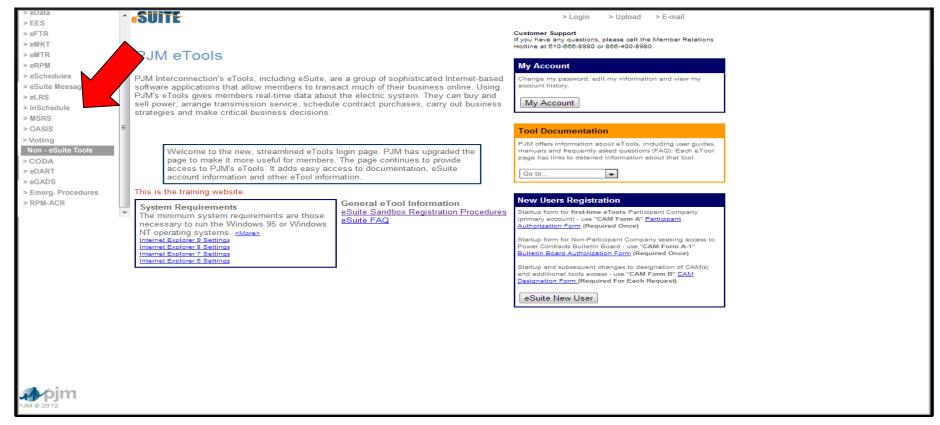
- Contract Information Service Types
  - IBT Internal Bilateral Transaction
    - Used for all internal bilateral energy transactions including supply for parties serving retail load
      - Financial change of MW ownership
      - Does not affect scheduling
    - May be specified as Day-ahead or Balancing
      - Day-ahead automatically copies to Balancing as well
    - Entered by either of the parties
    - Source and Sink can be the same or different
      - Must be agreed to by both parties
    - Adjusts a participants spot market interchange for PJM
      - Prices for energy settled outside PJM Market Settlements
      - Buyer gets paid sink LMP for energy
      - Buyer pays (sink-source) LMP explicit congestion and losses
      - Seller is charged source LMP



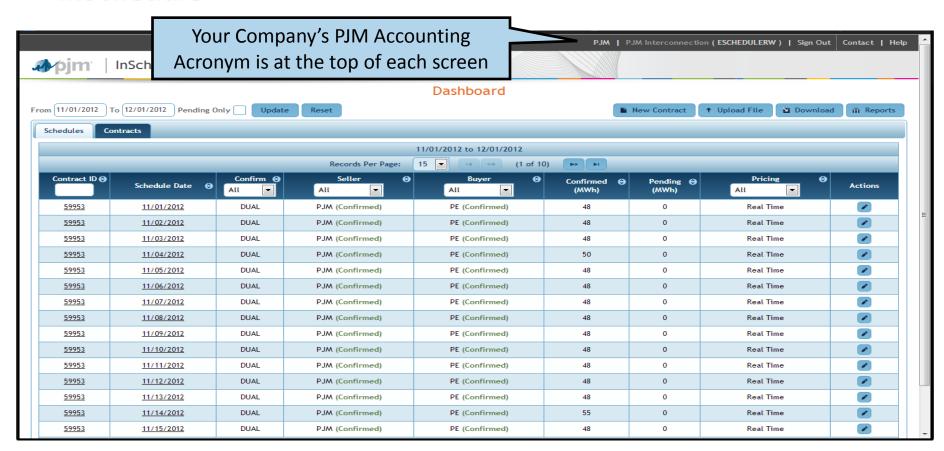
- Contract Information
  - Schedule Confirmation Type
    - Unilateral Buyer
      - Seller automatically confirmed
    - Unilateral Seller
      - Buyer automatically confirmed
    - Bilateral
      - Both Buyer and Seller must confirm
  - Comments
    - For party-party communications only, PJM does not review

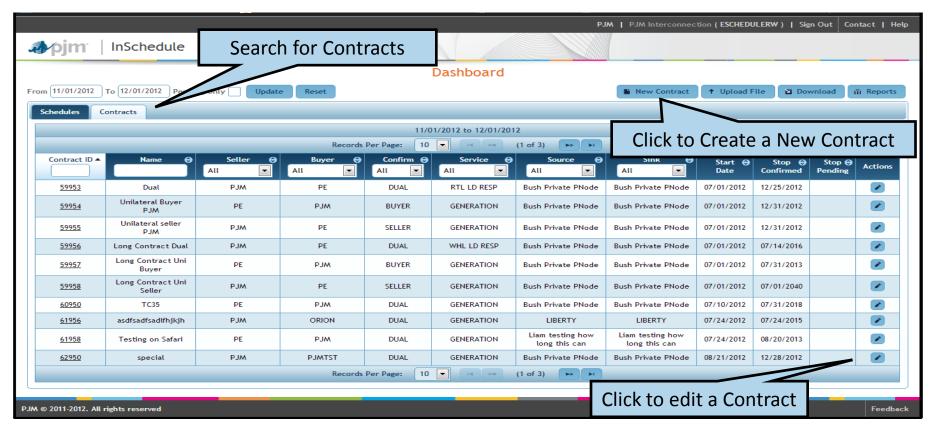


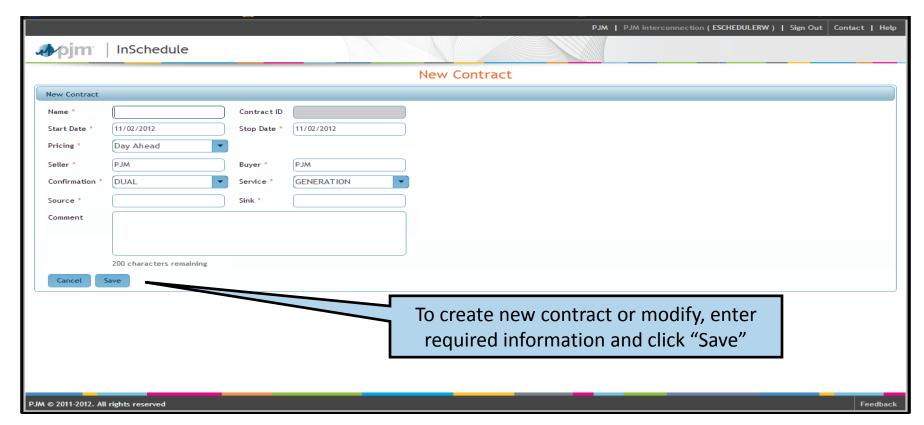
## eSuite: Login for InSchedule

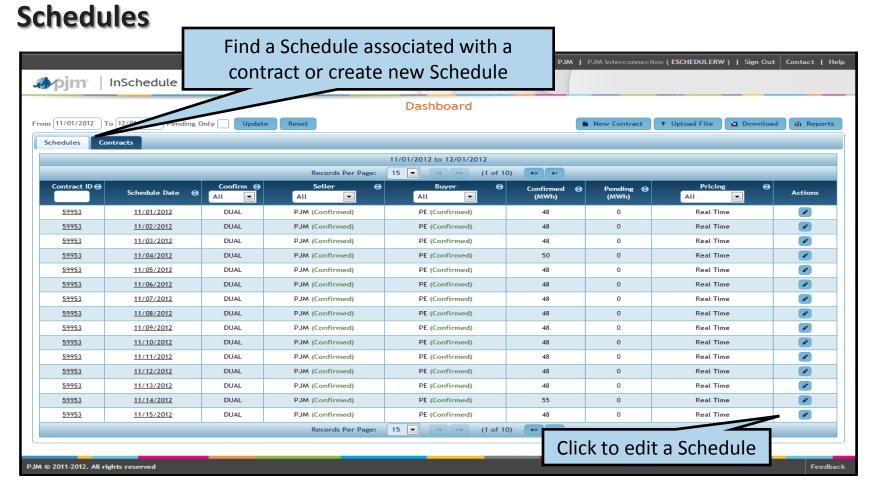


#### **InSchedule**

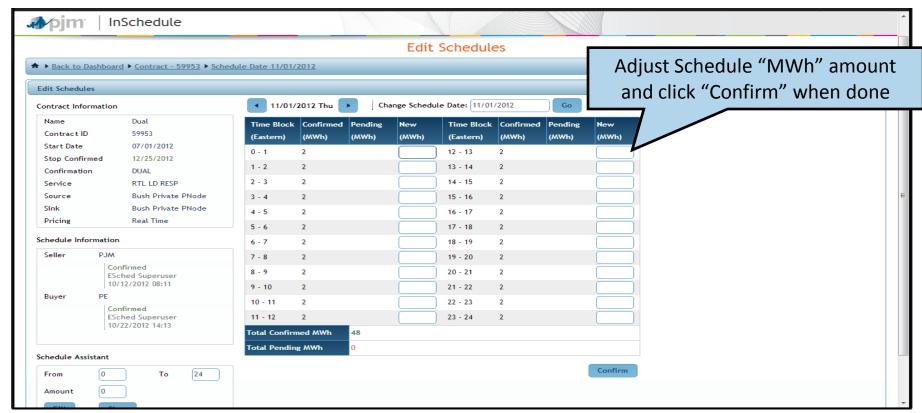




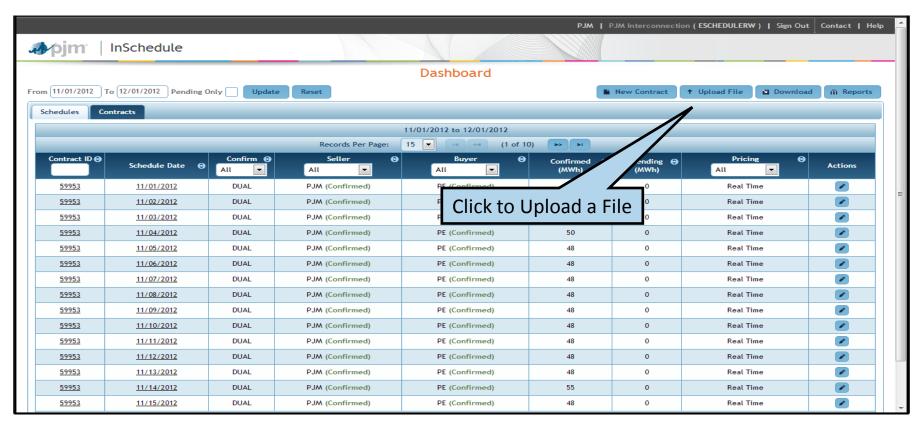




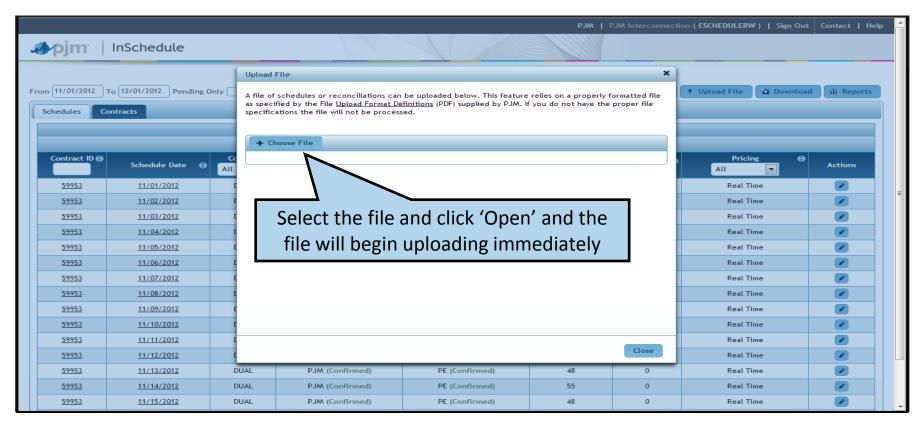
#### **Schedules**



# **File Upload**



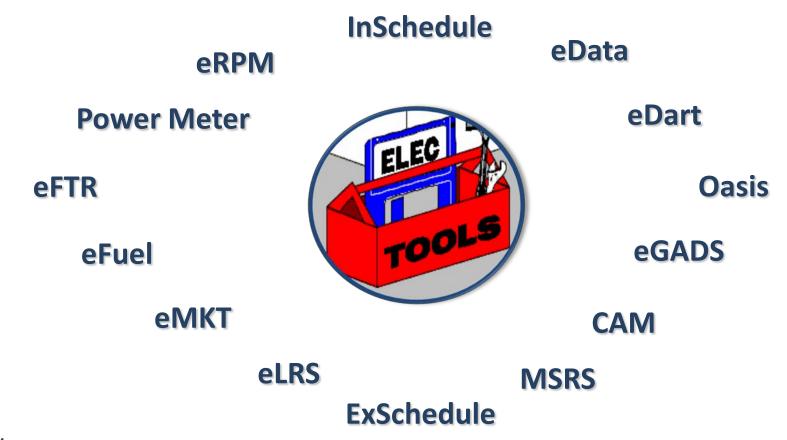
# **File Upload**





# **Communication**

# **Interacting with PJM Markets**



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# **PJM Tools Demonstration**



# **Questions?**

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