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Private Monthly Auction Aggregation Report

Task Description

Write Python scripts that aggregate all the historical private monthly auction data into one large CSV. Using that CSV, write another Python script that adds to historical ERCOT historical basis assets by including Plant, Size, ShadowPricePerMWH, and BidPricePerMWH information.

Solution Design

* Location
  + Scripts located at Y:\11\_Transmission Analysis\ERCOT\101 - Misc\CRR Limit Aggregates\Python Scripts\Automated Generator Comparators
* Steps to Run:
  + Navigate to the path shown above and run the Python files inside.
  + **AuctionCombine.py** combines the auctions into a large CSV (with the option to group together or not) and **Historical\_Auction\_Combine.py** adds to the ERCOT historical basis assets.
  + The output CSVs are in the Data/Aggregated Auction Data subfolder.
* High-level Details:
  + The script performs File I/O to locate all relevant CSV files storing the Monthly Private Auction data and then performs an optimized searching procedure to quickly and efficiently modify the ERCOT Historical Basis Asset data.

Sample Output

A screenshot of a computer

Description automatically generated with low confidence

What I Learned

Pandas groupBy, drop\_duplicates methods.