

Data Miner 2

Venkat Balachandran
Tech Change Forum
April 25, 2017



Data Miner 2 will become the central data repository and interface for PJM public data.

Key Product Features

- Unified / highly available interface for all PJM public data
- APIs available for system to system integrations
- Metadata available



Legend

- Start Date
- ◆ End Date

- Demo sessions will be setup for API Developer Portal / UI.
- Enhanced visualization possible in future based on member feedback and interests.
- More data will be available via Data Miner, with increased reliability, performance and ease-of-use.
- Existing flat files will be retired approximately one year after Go Live. Targeting Q3 2018 to begin retiring existing pjm.com postings.

- Similar look and feel to Data Miner
- Data Miner hosted on Microsoft Azure Cloud Platform
 - Filtering, Pagination and Sorting
 - Data Dictionary Search
- RESTful web API services
- Supports multiple Data Formats
 - JSON
 - XML
- Versioning

| Feed Name | Categorization | Short Name | Current URL | DM2 URL [Beta Only] |
|---|--------------------|---------------------|---|---|
| Day-Ahead Scheduling Reserve | Ancillary Services | dasr_results | http://www.pjm.com/markets-and-operations/energy.aspx | https://dataminer2-train.pjm.com/feed/dasr_results/definition |
| Non-Synchronized Reserve | Ancillary Services | non_sync_reserve | http://www.pjm.com/markets-and-operations/energy.aspx | https://dataminer2-train.pjm.com/feed/non_sync_reserve/definition |
| Synchronized Reserve Events | Ancillary Services | sync_reserve_events | http://www.pjm.com/markets-and-operations/energy.aspx | https://dataminer2-train.pjm.com/feed/sync_reserve_events/definition |
| Hourly Day-Ahead Increment Offer & Decrement Bid Data | Bid And offer Data | hrl_da_incs_decs | http://www.pjm.com/markets-and-operations/energy.aspx | https://dataminer2-train.pjm.com/feed/hrl_da_incs_decs/definition |
| Nodal Reference Prices | Credit | nodal_ref_prices | http://www.pjm.com/markets-and-operations/energy.aspx | https://dataminer2-train.pjm.com/feed/nodal_ref_prices/definition |
| Forecasted Generation Outages | Generation | frcstd_gen_outages | http://www.pjm.com/markets-and-operations/billing-settlements-and-credit/preliminary-billing-reports.aspx | https://dataminer2-train.pjm.com/feed/frcstd_gen_outages/definition |

| Feed Name | Categorization | Short Name | Current URL | DM2 URL [Beta Only] |
|--|-------------------------|---------------------|---|---|
| Generation outage for Seven days by type | Generation | gen_outages_by_type | http://www.pjm.com/markets-and-operations/billing-settlements-and-credit/preliminary-billing-reports.aspx | https://dataminer2-train.pjm.com/feed/gen_outages_by_type/definition |
| Off-Cost Operations | Generation | off_cost_ops | http://www.pjm.com/markets-and-operations/billing-settlements-and-credit/preliminary-billing-reports.aspx | https://dataminer2-train.pjm.com/feed/off_cost_ops/definition |
| Wind Generation | Generation(Renewables) | wind_gen | http://www.pjm.com/markets-and-operations/ancillary-services.aspx | https://dataminer2-train.pjm.com/feed/wind_gen/definition |
| Hourly Load: Estimated | Load | hrl_load_estimated | http://www.pjm.com/markets-and-operations/ops-analysis.aspx | https://dataminer2-train.pjm.com/feed/hrl_load_estimated/definition |
| Hourly Load: Preliminary | Load | hrl_load_prelim | http://www.pjm.com/markets-and-operations/ops-analysis.aspx | https://dataminer2-train.pjm.com/feed/hrl_load_prelim/definition |

| Feed Name | Categorization | Short Name | Current URL | DM2 URL [Beta Only] |
|--|-----------------------|----------------------|---|---|
| Ancillary Services (Daily files) - under Real-Time Energy Market | LMP | ancillary_services | http://www.pjm.com/markets-and-operations/ops-analysis.aspx | https://dataminer2-train.pjm.com/feed/ancillary_services/definition |
| Hourly LMPs under Day Ahead Energy Market | LMP | da_hrl_lmps | http://www.pjm.com/markets-and-operations/ops-analysis.aspx | https://dataminer2-train.pjm.com/feed/da_hrl_lmps/definition |
| Hourly LMPs under Real-Time Energy Market | LMP | rt_hrl_lmps | http://www.pjm.com/markets-and-operations/ops-analysis.aspx | https://dataminer2-train.pjm.com/feed/rt_hrl_lmps/definition |
| Generation and Extra High Voltage Losses | Losses | gen_ehv_losses | http://www.pjm.com/markets-and-operations/ops-analysis.aspx | https://dataminer2-train.pjm.com/feed/gen_ehv_losses/definition |
| PJM Regulation Zone Preliminary Billing Data | Ancillary Services | reg_zone_prelim_bill | http://www.pjm.com/markets-and-operations/ops-analysis.aspx | https://dataminer2-train.pjm.com/feed/reg_zone_prelim_bill/definition |
| Daily cleared INCs, DECs, and UTCs(XLS) | Bid and Offers Data | day_inc_dec_utc | http://www.pjm.com/markets-and-operations/energy.aspx | https://dataminer2-train.pjm.com/feed/day_inc_dec_utc/definition |
| Pricing Nodes | Reference Data | Pnode | N/A | https://dataminer2-train.pjm.com/feed/pnode/definition |

- API Guide
<http://www.pjm.com/markets-and-operations/etools/data-miner-2.aspx>
- Data Miner 2 Support
 - Please Contact: DataMiner2Support@pjm.com