Addressing Unsubmitted eDART Unplanned Outage Tickets

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System Operations Subcommittee
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- 2.4 Unplanned (Forced) Outages

  – A Generator Unplanned (Forced) Outage is an immediate reduction in output or capacity or removal from service, in whole or in part, of a generating unit by reason of an Emergency or threatened Emergency, unanticipated failure, or other cause beyond the control of the owner or operator of the facility. If the Generator has any advanced knowledge of an imminent unplanned outage, the Generator shall notify PJM with as much lead-time as practicable, but within one hour. Members that own or control a generation resource are expected to:

    • Inform PJM of the Unplanned Outage as promptly as possible.
    • Submit an Unplanned Outage ticket via eDART, using “unknown” as the return time if necessary.
    • As soon as possible following the start of the outage:
    • Provide PJM with the expected date and time that the generation resource will be made available
    • Provide PJM the reason for the outage

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Background

- Post Winter Storm Elliot there were significant discrepancies among the outages reported in Markets Gateway, reported in eDART, captured in dispatch log and reported in GADS

- This initiated Monitoring Analytics to send a letter to PJM Market Participants to ensure outages were correctly reported in Markets Gateway, eDART and GADS.
  - Monitoring Analytics- January 26, 2023, letter to Market Participants

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Executive Summary

- Evidence that some unplanned/forced outages are still not being entered in eDART.
- The team has built a tool that identifies and validates Unplanned (FTS/Trip) events through:
  - Real time operator logs
  - Markets gateway
  - MW output of unit
- Impacts:
  - Forced outage rate used in forecasts
  - Accuracy of report out to stakeholders
  - Dispatch MW reserve requirement
  - Accurate generator performance risk

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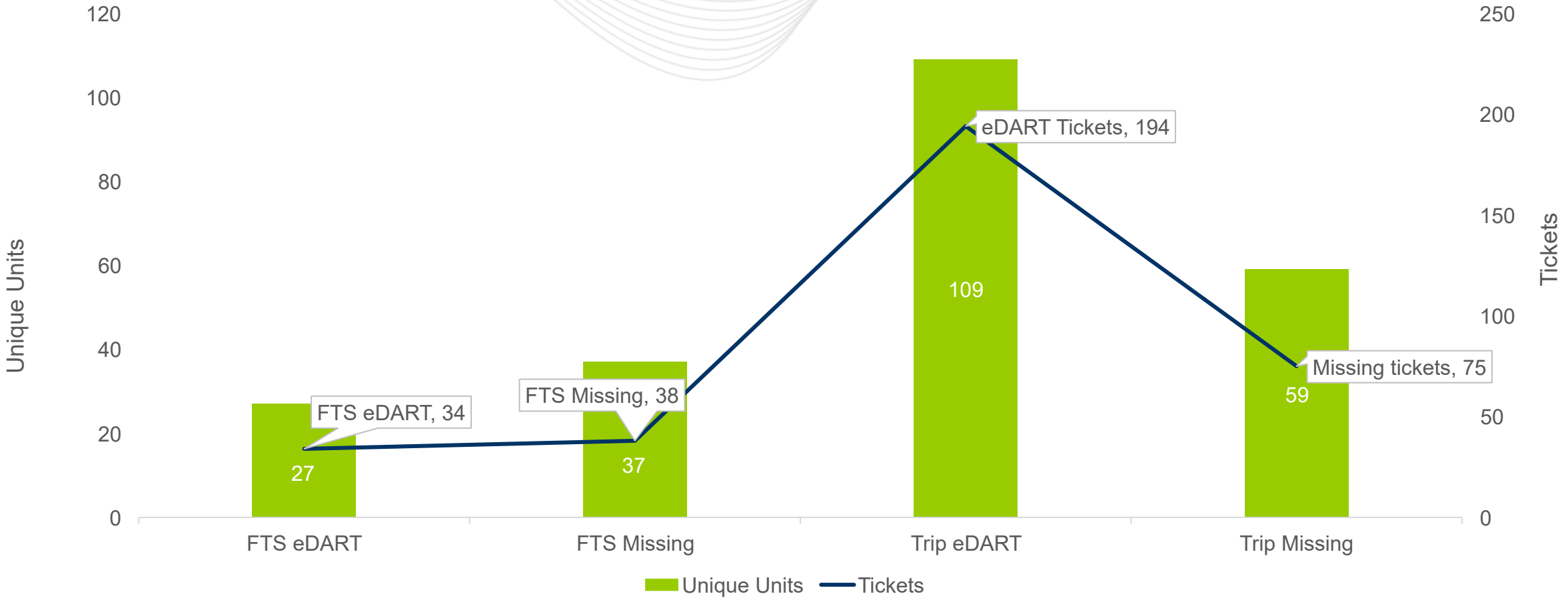
Winter Storm FERN

Failed to Start and Unit trip eDART tickets vs. Missing tickets



* eDART tickets identified by cause code and description

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Key Takeaways

1	2	3
• Unplanned Outages being entered eDART throughout the year and around the RTO is an ongoing concern.	• Utilizing Winter storm FERN as an example 113 (FTS and Trip) tickets across 88 unique generators were missing over the 10-day period.	• This impacts PJM's ability to accurately report forced outage data to stakeholders and accurately forecast actual forced outage rates.

- We are open to feedback on a way to capture missing Unplanned/Forced Outage events in eDART moving forward.

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Addressing Unsubmitted eDART Unplanned Outage Tickets

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