



eDART Intro & Gen Checkout

PJM Initial Training Program

Student Guide

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Objectives

Objectives

Identify the tools used to participate in the various PJM markets





1

eDART

eDART

eDART is a suite of electronic applications used to facilitate communications between Operators which includes engineering communication and coordination functions as it relates to:

- Facility and Outage Requests
- Updates to reactive capability curves (D-curves)
- Voltage regulator statuses among other generation and transmission functionalities



eDART Continued

eDART Continued

eDART's benefits to PJM membership include:

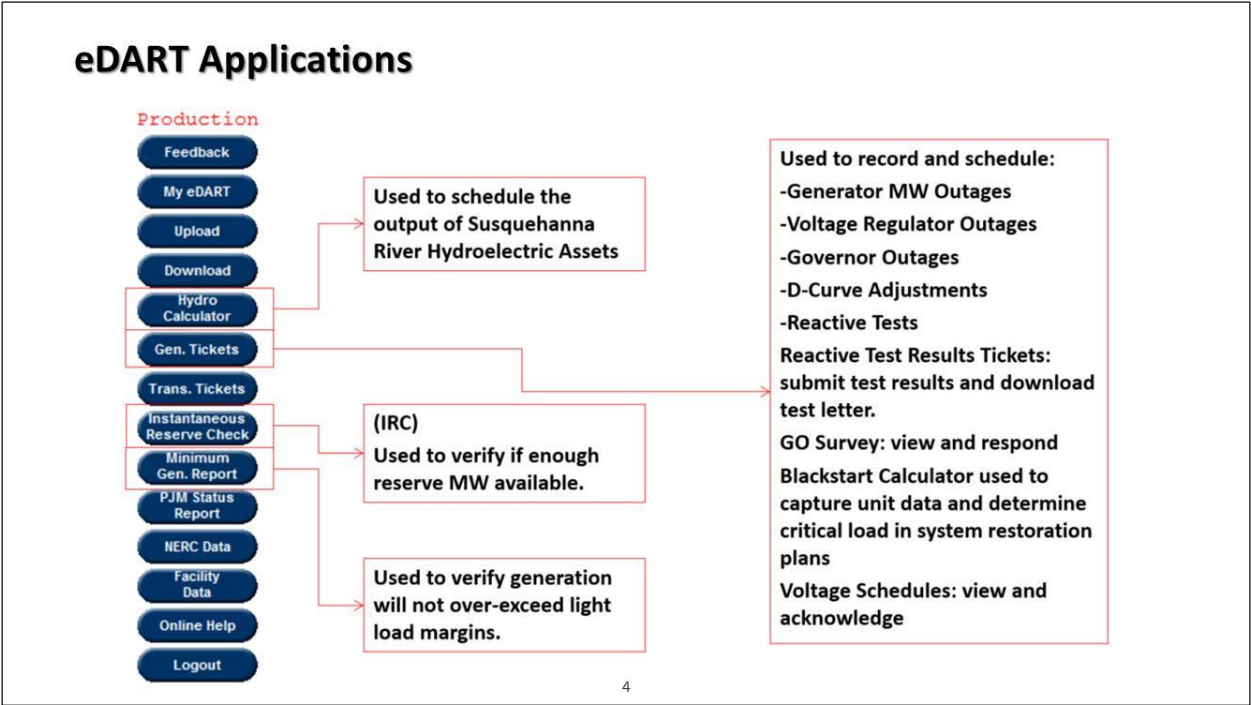
- A quick, 24/7 process for outage and model change request submittal
- Easy access to comprehensive information
- A simple and user-friendly online interface

Through eDART, a user can filter outage information based on:

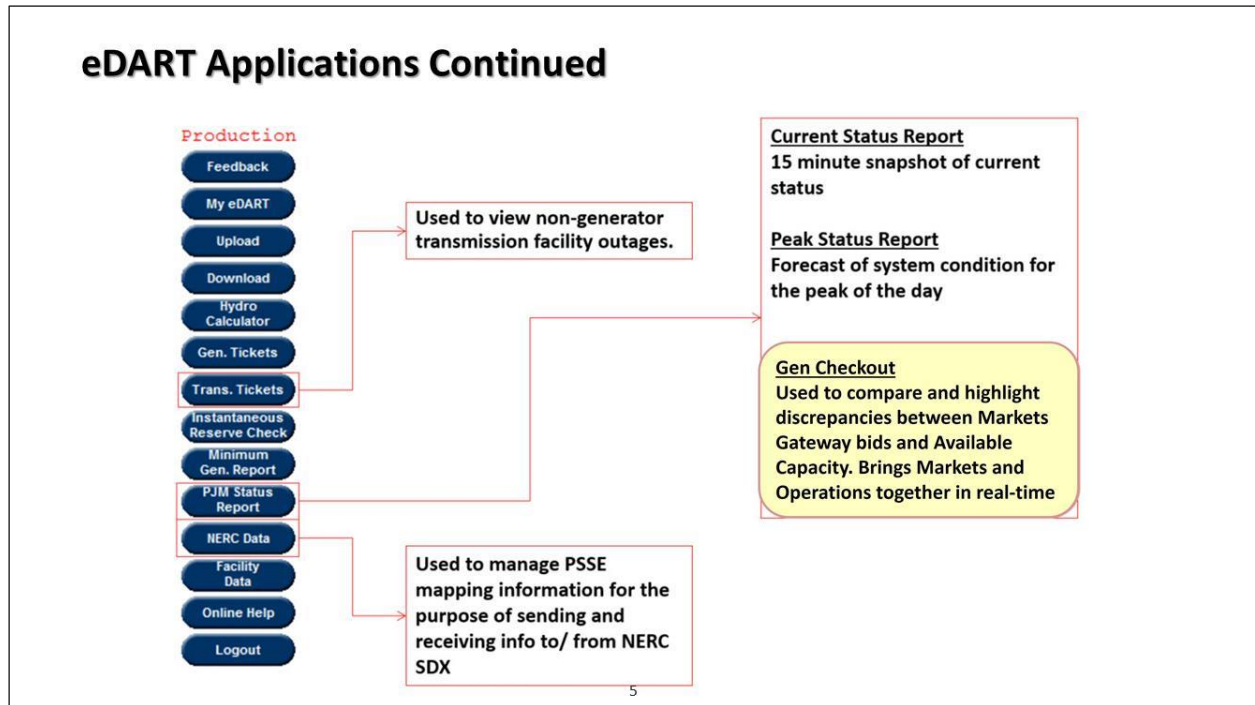
- Start date, end date, ticket number and other criteria to help ease the dissemination of information to help make a comprehensive range of reports



eDART Applications



eDART Applications Continued



Gen Checkout

What is Gen Checkout?

What is Gen Checkout?

This program compares:

- Unit schedule availability/bid data in Markets Gateway
- Unit outages submitted via a Generator Ticket (eDART)
- Stated capability to ensure accurate market data and capacity/reserve projections

Generation Checkout occurs twice daily

- 02:00 to check out for the same day
- 13:30 to check out for the next day

Discrepancy Handling

Discrepancy Handling

Gen Checkout is basically a reporting mechanism

All resolutions are handled via Markets Gateway and/or Gen tickets

Resolutions for the Today Report must be handled by 04:00

- ALL CALL initiates process at approximately 02:00

Resolutions for the Tomorrow Report must be handled by 14:15

- 13:30 unit commitment report triggers Gen Checkout

For more information on Markets Gateway functionality, please go to:

<http://www.pjm.com/markets-and-operations/etools/markets-gateway.aspx>

For more information on eDART – Generator Ticket functionality, please go to:

<http://www.pjm.com/markets-and-operations/etools/edart.aspx>

Comparison Overview

Comparison Overview

Gen Checkout on a per unit basis, lists the Markets Gateway values and compares them to outages in eDART

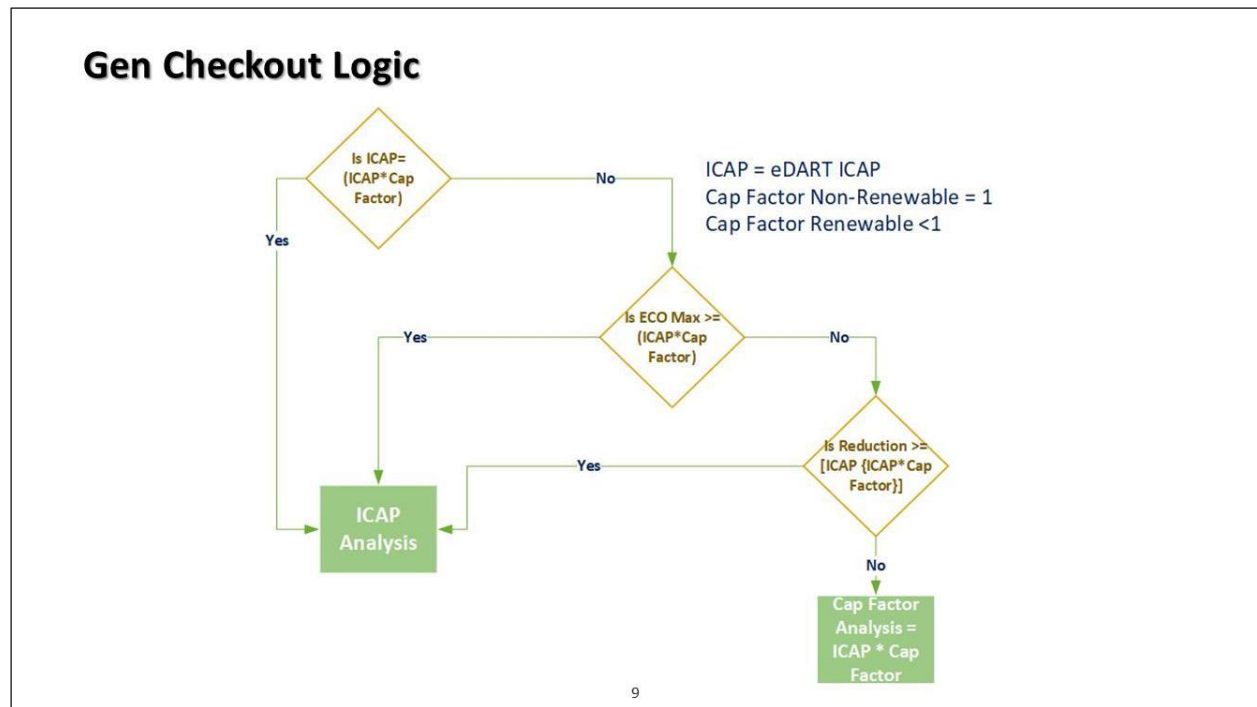
Any issues are highlighted (yellow or red)

Companies “Acknowledge” when Markets Gateway values are in sync with outage availability (within a specified tolerance)

- Acknowledgement will be for Today or Tomorrow

Gen Type	Warn. Level %	Ack. Level %
Combustine Turbine	15	20
Diesel	20	50
Hydro	99	200
Nuclear	5	10
Renewable	99	200
Steam/Fossil	15	20
Wind	99	200

Gen Checkout Logic



Gen Checkout Calculations

Gen Checkout Calculations

ICAP Analysis

Condition	Adjusted Capacity, ADJ. ICAP	Adjusted ICAP Diff (%)
Economic	$Adj.ICAP_{EC} = ICAP + Amb.Adj. - Re\ duct - Incremental$ $* Incremental = EmergencyMax - EconomicMax$	$DIFF = \frac{ADJ.CAP_{EC} - EconomicMax}{ADJ.CAP_{EC}} \times 100$
Emergency	$Adj.ICAP_{EM} = ICAP + Amb.Adj. - Re\ duct$	$DIFF = \frac{ADJ.CAP_{EM} - EmergencyMax}{ADJ.CAP_{EM}} \times 100$

***Note:** Ambient Air values will be the opposite sign of what is reported in Generator Tickets
 -For Cap Factor Analysis, ICAP = ICAP*Capacity Factor



Knowledge Check!

1. How often does Generation Checkout run each day?

- a. Once, at the end of the business day*
- b. Three times—morning, afternoon, and evening*
- c. Twice—at 0200 for same-day checks and at 1330 for next-day checks*
- d. Every hour on the hour*

2. What is the primary purpose of the eDART tool?

- a. To facilitate dispatcher communications and manage operational data for PJM members*
- b. To forecast long-term system demand and reserve margins*
- c. To communicate between generation companies and fuel suppliers*
- d. To calculate Locational Marginal Prices in real-time*

3. Generation Checkout compares unit data in Markets Gateway with which of the following?

- a. Historical generator performance trends*
- b. Outage data submitted through E-DART*
- c. Bids submitted to the Day-Ahead Market*
- d. PJM's annual reliability assessment*

Questions

Questions?

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The Member Community is PJM's self-service portal for members to search for answers to their questions or to track and/or open cases with Client Management & Services