

Generation Initial Training Program

eDART Intro & Gen Checkout

PJM State & Member Training Dept.

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Objectives



Students will be able to:

• Identify the tools used to participate in the various PJM markets

eDART

- A suite of electronic applications used to facilitate dispatcher-to-dispatcher communications, along with other engineering communication and coordination functions with regards to:
 - Unit outage requests
 - Updates to reactive capability curves (D-curves)
 - Voltage regulator statuses among other generation and transmission functionalities

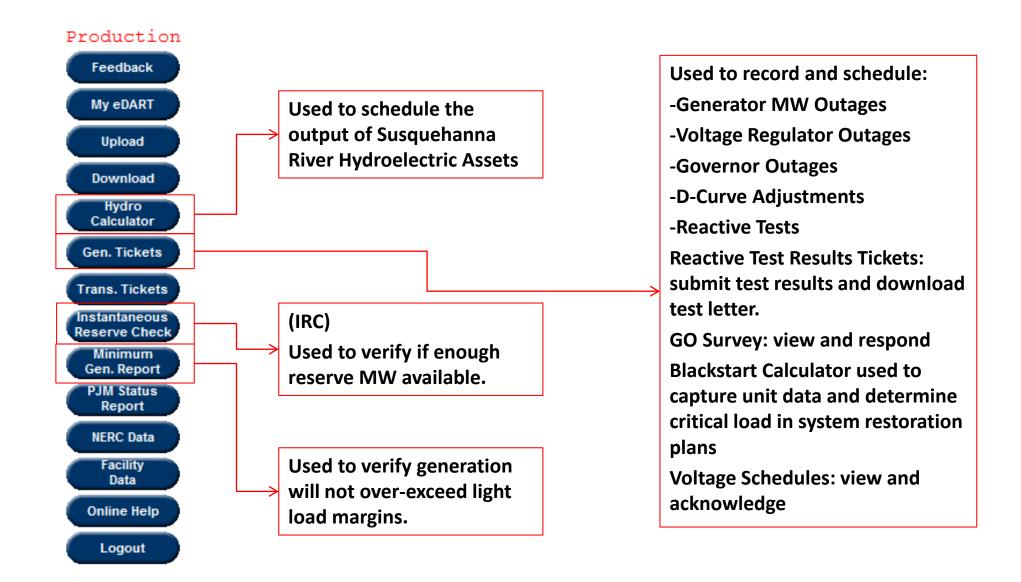


eDART

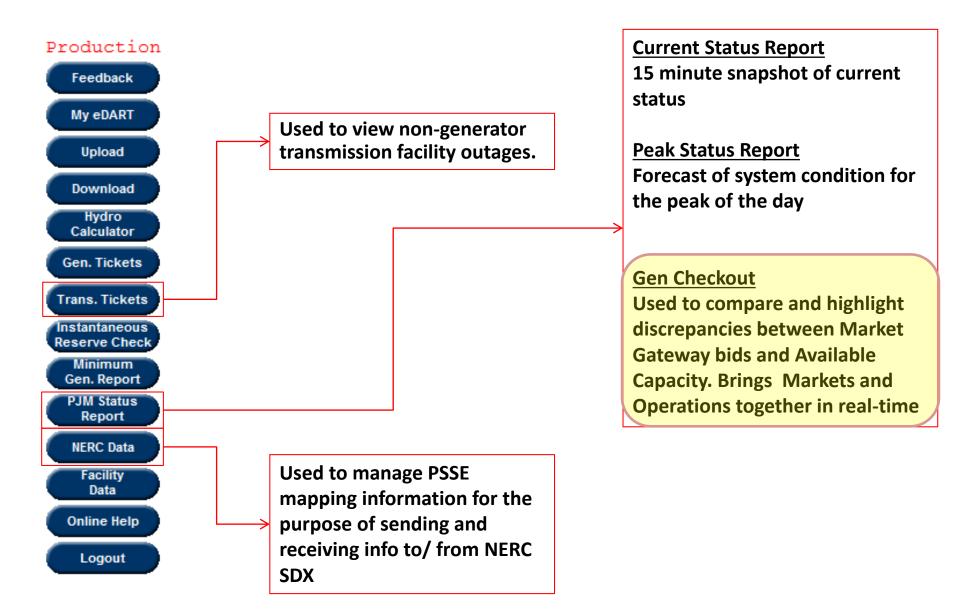
- eDART's benefits to PJM membership include:
 - A quick, 24/7 process for outage and model change request submittal
 - Easy access to comprehensive information
 - A simple and user-friendly online interface
- Through eDART, a user can filter outage information based on:
 - Start date, end date, ticket number and other criteria to help ease the dissemination of information to help make a comprehensive range of reports



eDART Applications



eDART Applications



What is Gen Checkout?

- eDART Generation Checkout This program compares:
 - Unit schedule availability/bid data in Markets Gateway,
 - Unit outages submitted via 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

Gen Checkout is basically a reporting mechanism

- All resolutions handled via Markets Gateway and/or Gen tickets
- Resolutions for the Today Report must be handled by 0400
 - All call initiates process at approx. 2:00 am
- 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

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Comparison Overview

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

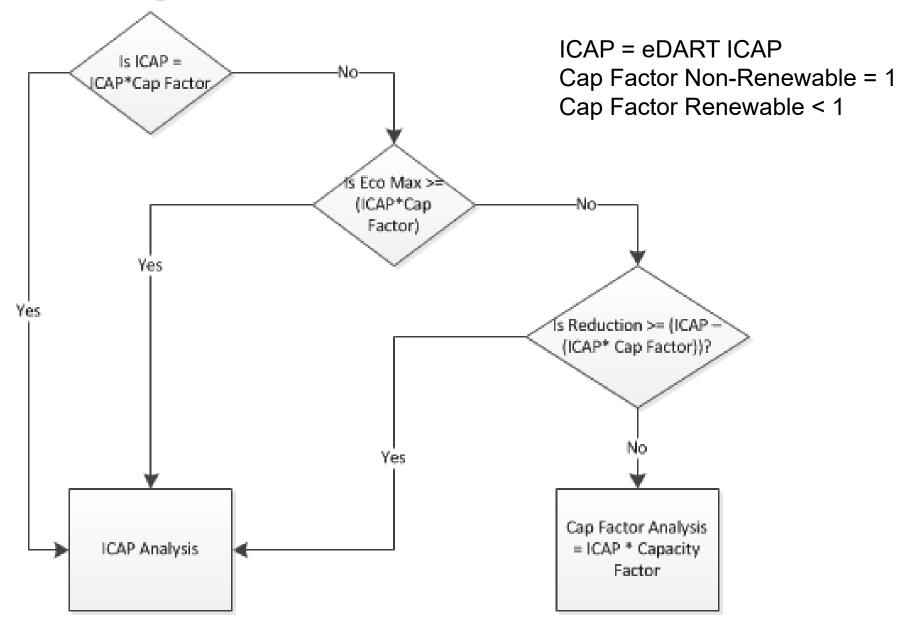
Any issues are highlighted (yellow or red)

 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/Fossill	15	20
Wind	99	200

Gen Checkout Logic



Gen Checkout Calculations

ICAP Analysis

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



Questions?

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