

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

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eDART

- eDART stands for electric Dispatcher Applications and Reporting Tool
 - a suite of electronic applications used to facilitate dispatcher-todispatcher communications, along with other engineering communication and coordination functions
 - 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 and to help make a comprehensive range of reports

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
- eDART's creation has greatly reduced the amount of physical paperwork and the time consuming communication of prior processes



Gen Checkout

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What is Gen Checkout?

- eDart Generation Checkout This program compares unit schedule availability/bid data in eMarket, unit outages submitted via Generator Ticket (eDart) and stated capability to ensure accurate market data and capacity/reserve projections
 - Gen Checkout occurs twice daily
 - 02:00 to check out for the same day
 - 16:00 to check out for the next day

Discrepancy Handling

- Gen Checkout is basically a reporting mechanism
- All resolutions handled via eMarket 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 1800
 - 16:00 unit commitment report triggers Gen Checkout

For more information on eMarket functionality, please go to http://www.pjm.com/markets-and-operations/etools/emkt.aspx For more information on eDART – Generator Ticket functionality, please go to http://www.pjm.com/markets-and-operations/etools/edart.aspx

Comparison Overview

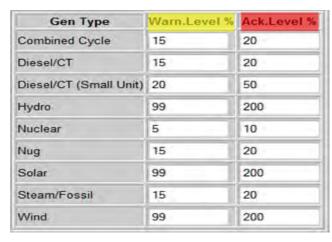
 Gen Checkout on a per unit basis, lists the eMarket values and compares them to outages in eDART

Any issues are highlighted (yellow ____ or red ____)

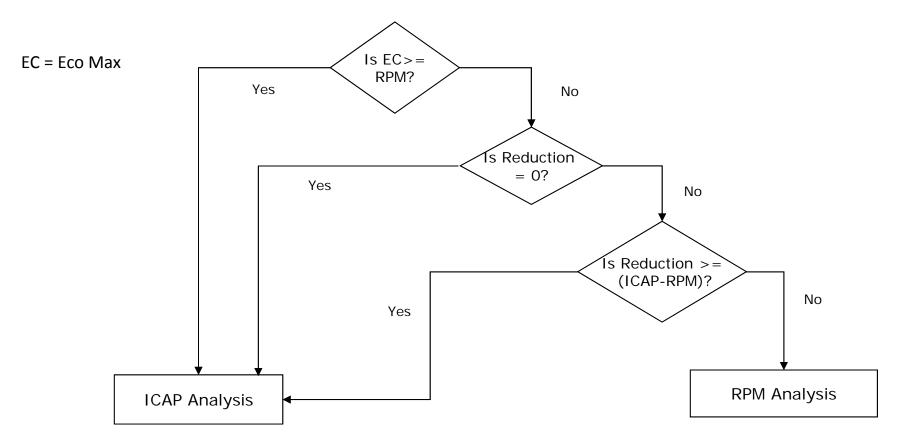
Companies "Acknowledge" when eMarket values are in sync with

outage availability (within a specified tolerance)

 Acknowledgement will be for Today or Tomorrow



Gen Checkout Calculation Overview



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Gen Checkout Calculations

ICAP Analysis

Condition	Adjusted Capacity, ADJ. ICAP	ADJ. ICAP Diff (%)
Economic	Adj $.ICAP$ $_{EC}$ = $ICAP$ + Amb $.Adj$ $$ Re $duct$ - $Incrementa$ l * $Incrementa$ l = $EmergencyM$ ax - $EconomicMa$ x	$DIFF = \frac{ADJ \cdot CAP_{EC} - EconomicMa}{ADJ \cdot CAP_{EC}} \times 100$
Emergency	$Adj .ICAP_{EM} = ICAP + Amb .Adj Re duct$	$DIFF = \frac{ADJ \cdot CAP_{EM} - EmergencyM}{ADJ \cdot CAP_{EM}} \times 100$

*Note: Ambient Air values will be the opposite sign of what is reported in Generator Tickets

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Gen Checkout Calculations

RPM Analysis**	**Used when RPM committed value exceeds EcoMax and a re Value minus RPM commitment	eduction is entered less than the ICAP
Condition	Adjusted RPM, ADJ. RPM	ADJ. RPM Diff (%)
Economic	$Adj .RPM$ $_{EC} = RPM + Amb .Adj Incrementa l$ $* Incrementa $	$DIFF = \frac{ADJ \cdot RPM}{ADJ \cdot RPM} = \frac{EC - EconomicMa}{EC} \times 100$
Emergency	Adj .RPM = RPM + Amb .Adj .	$DIFF = \frac{ADJ \cdot RPM}{ADJ \cdot RPM} = \frac{EmergencyM}{EM} \times 100$

*Note: Ambient Air values will be the opposite sign of what is reported in Generator Tickets

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Questions?

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