

Manual Economic Dispatch Operation (Off-SCED)

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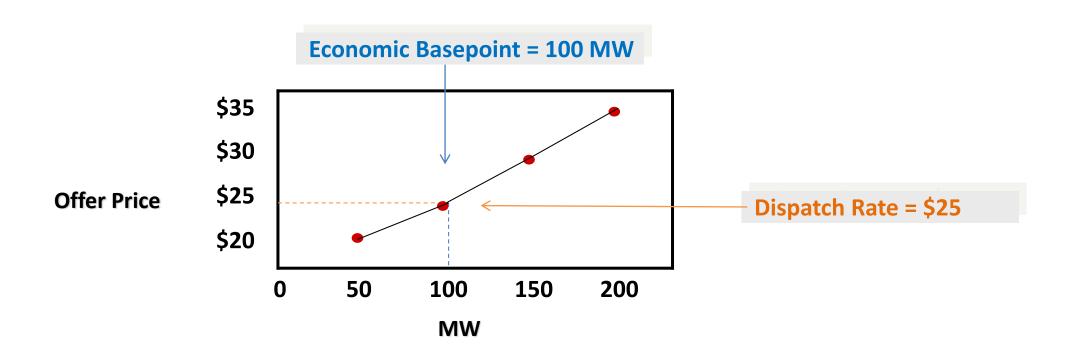
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Resources Scheduled to Meet Demand



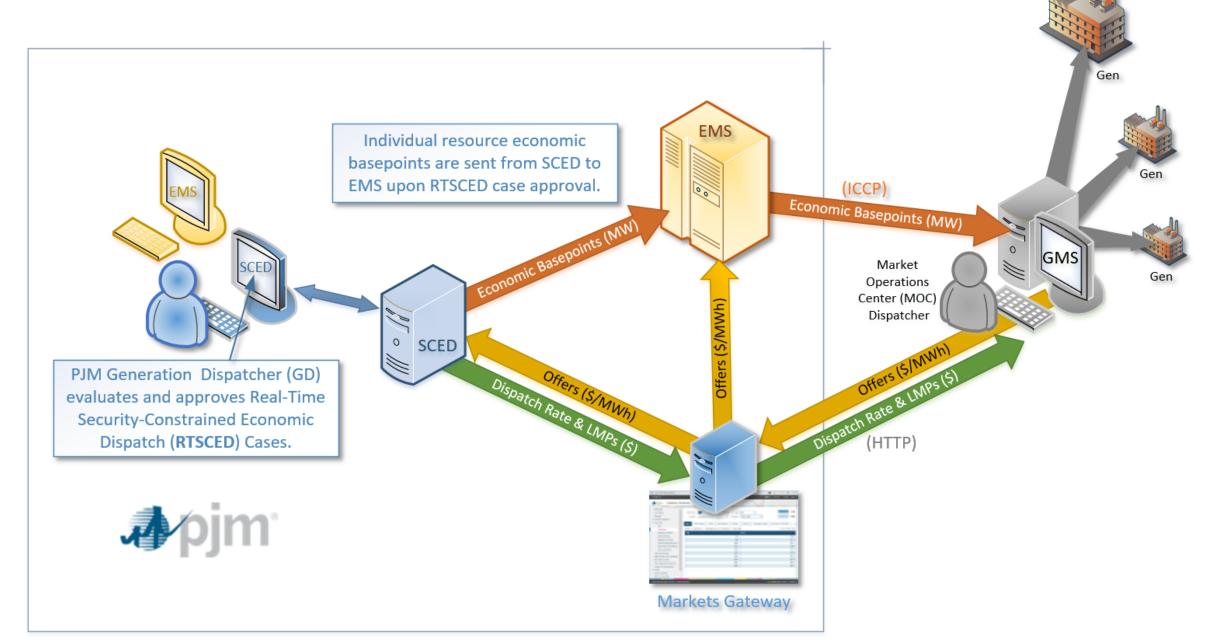
Review: Dispatch Rate

During normal ("On SCED") operations, Dispatch Rate (\$) and Economic Basepoint (MW) are calculated by SCED for every generation resource, based on LMP calculations for every location in the system.



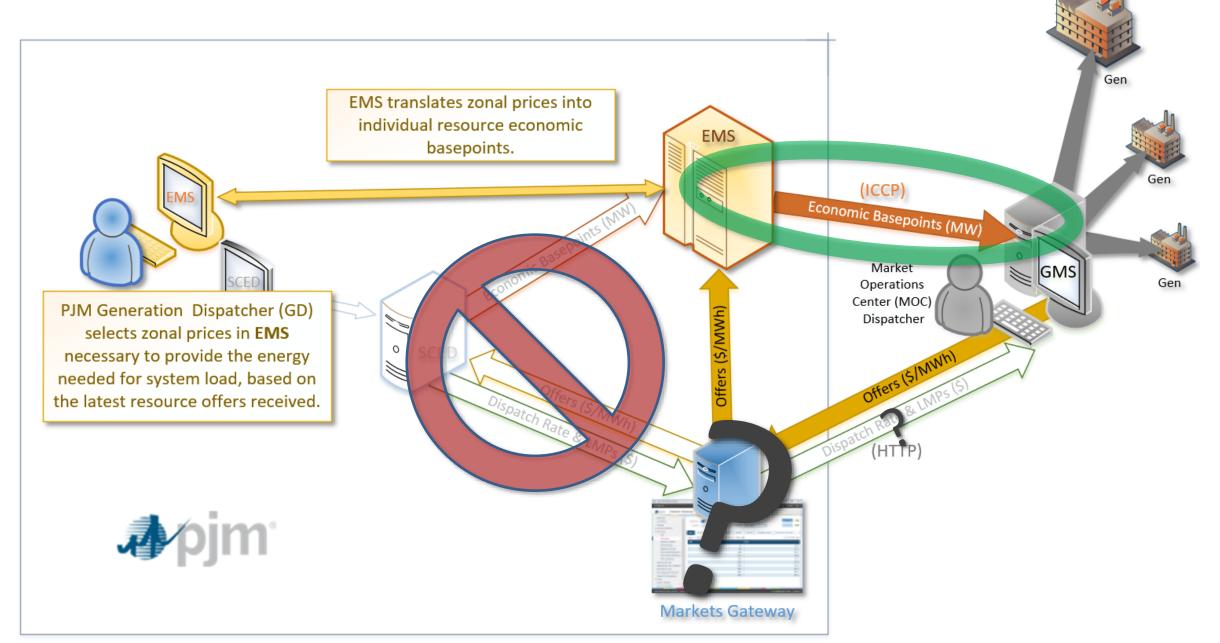
On SCED

(Normal Economic Dispatch Operation)



Off SCED

(Manual Economic Dispatch Operation)

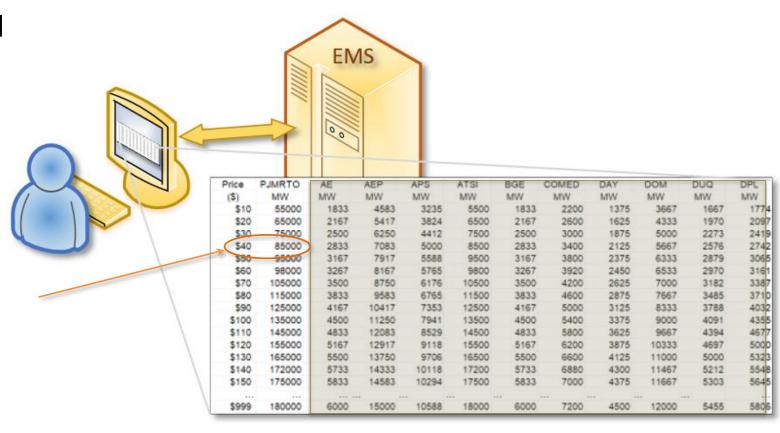


Manual Economic Dispatch (ManED) = Incremental System Dispatch

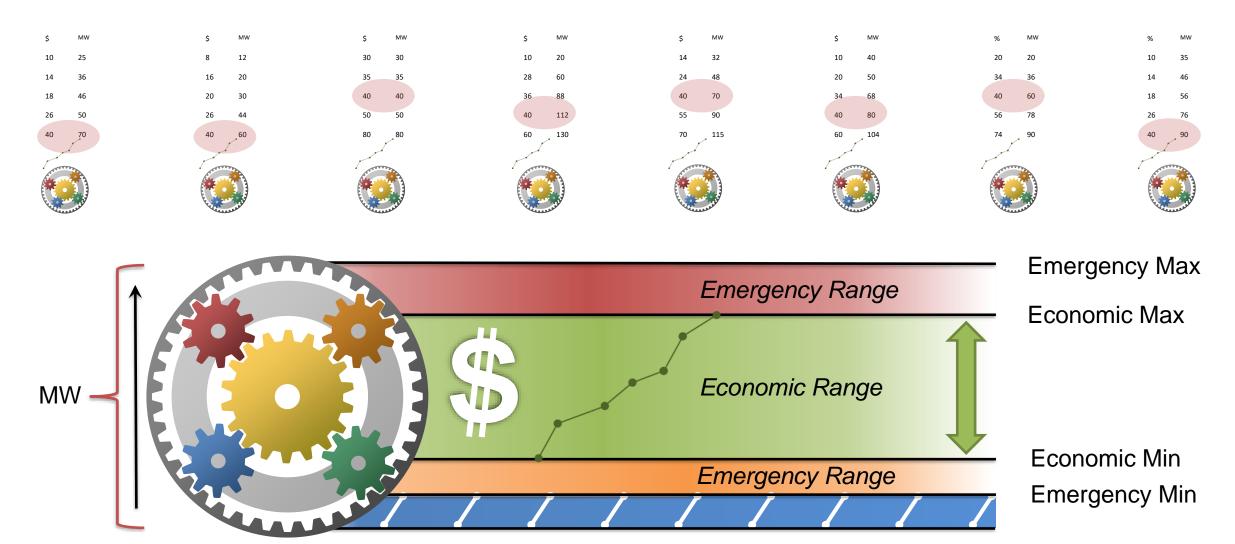
The Price-MW values presented to the Generation Dispatcher for selection represent the incremental sum of resource MWs at each price level.

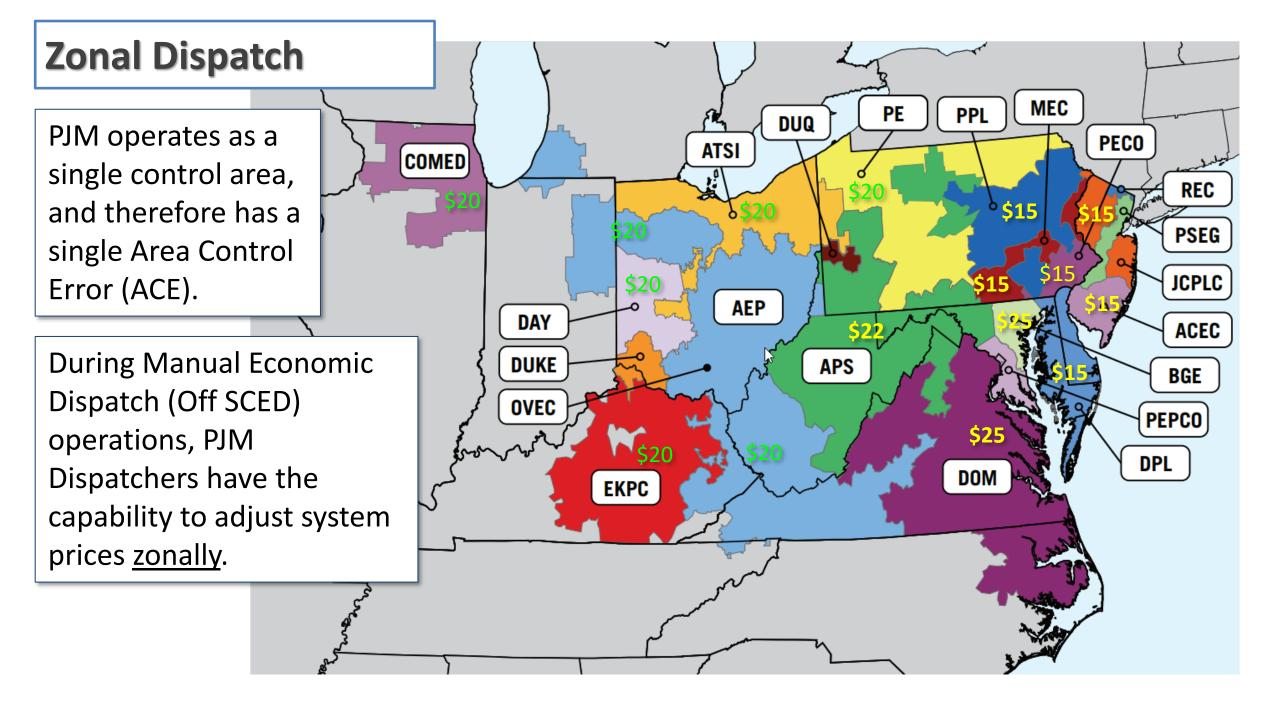
In this example data, a \$40 system incremental price corresponds to a total dispatch of 85,000 MW.

The dispatcher would enter a \$40 system dispatch price into the ManED system to serve 85,000 MW of load.



Example: Dispatch Rate: \$40 – What are the Economic Basepoints?



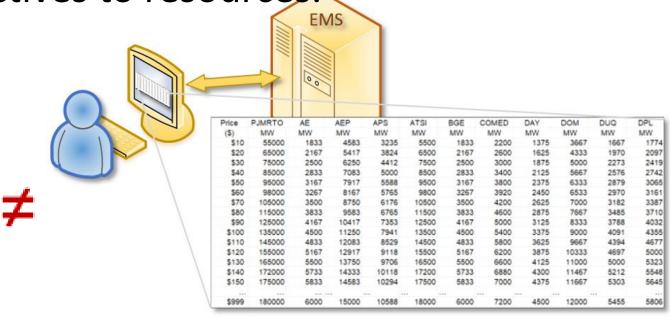


Congestion Control using Manual Economic Dispatch (Off SCED)

Finer-grained control of constraints is achieved by

Manual Dispatch directives to resources.





Note: "Manual Dispatch" ≠ "Manual **Economic** Dispatch"

Common Causes of Manual Economic Dispatch (Off SCED) Operations

Scheduled Markets System Maintenance
(Updates to software or hardware, site switchover)

Software issues ('Bugs', data latency)

• Hardware issues (Failures, maintenance)



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