

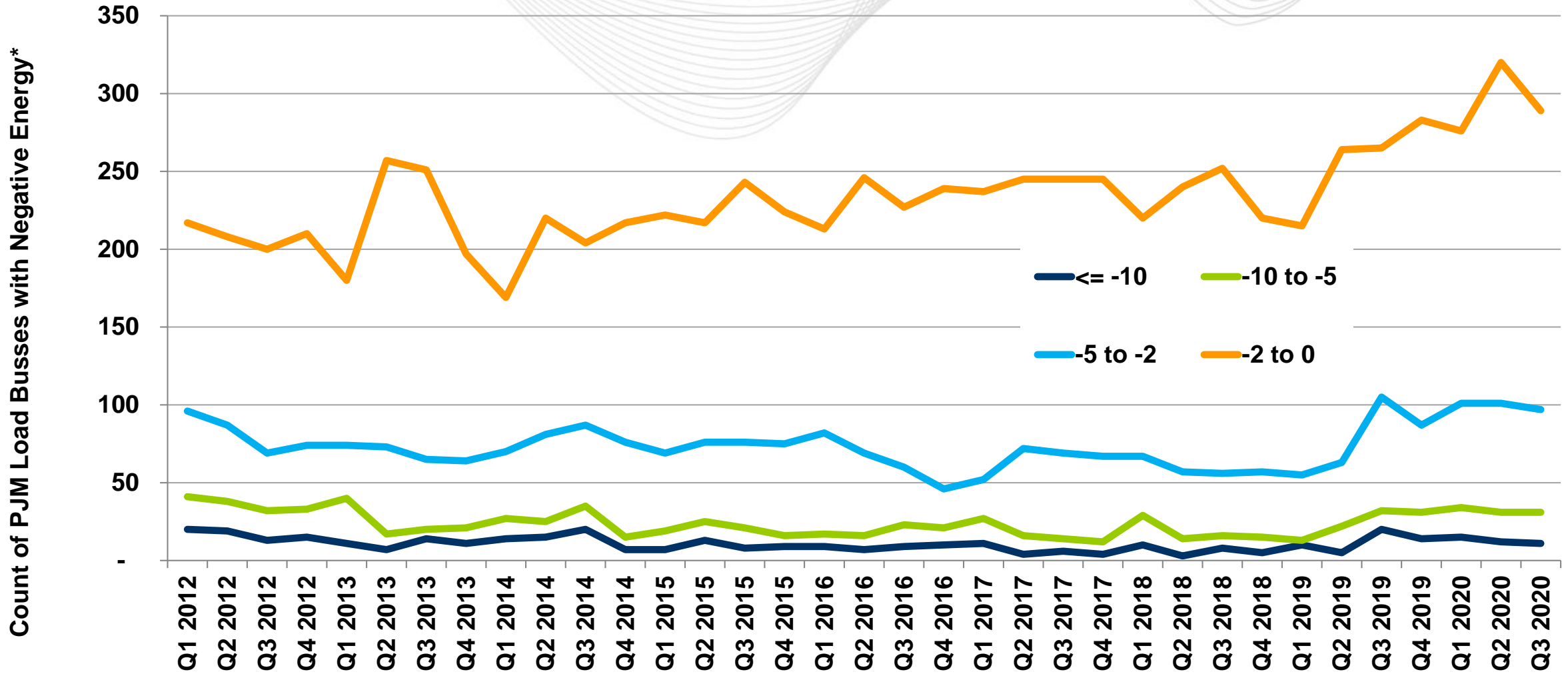
Net Energy Injections at Load Busses Quarterly Report

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Market Implementation Committee
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- Follow up effort to the Net Energy Metering Senior Task Force (NEMSTF) recommendation
 - PJM will implement a quarterly review to track and trend overall incidents of net energy injections at load busses
- PJM Manual 28 Requirement
 - PJM will assess and trend quarterly the degree of net energy injections at load busses modeled in the PJM network system model (i.e., reverse power flows) in order to detect and correct any modeling issues and to identify any generation in excess of load that appears at a load bus.

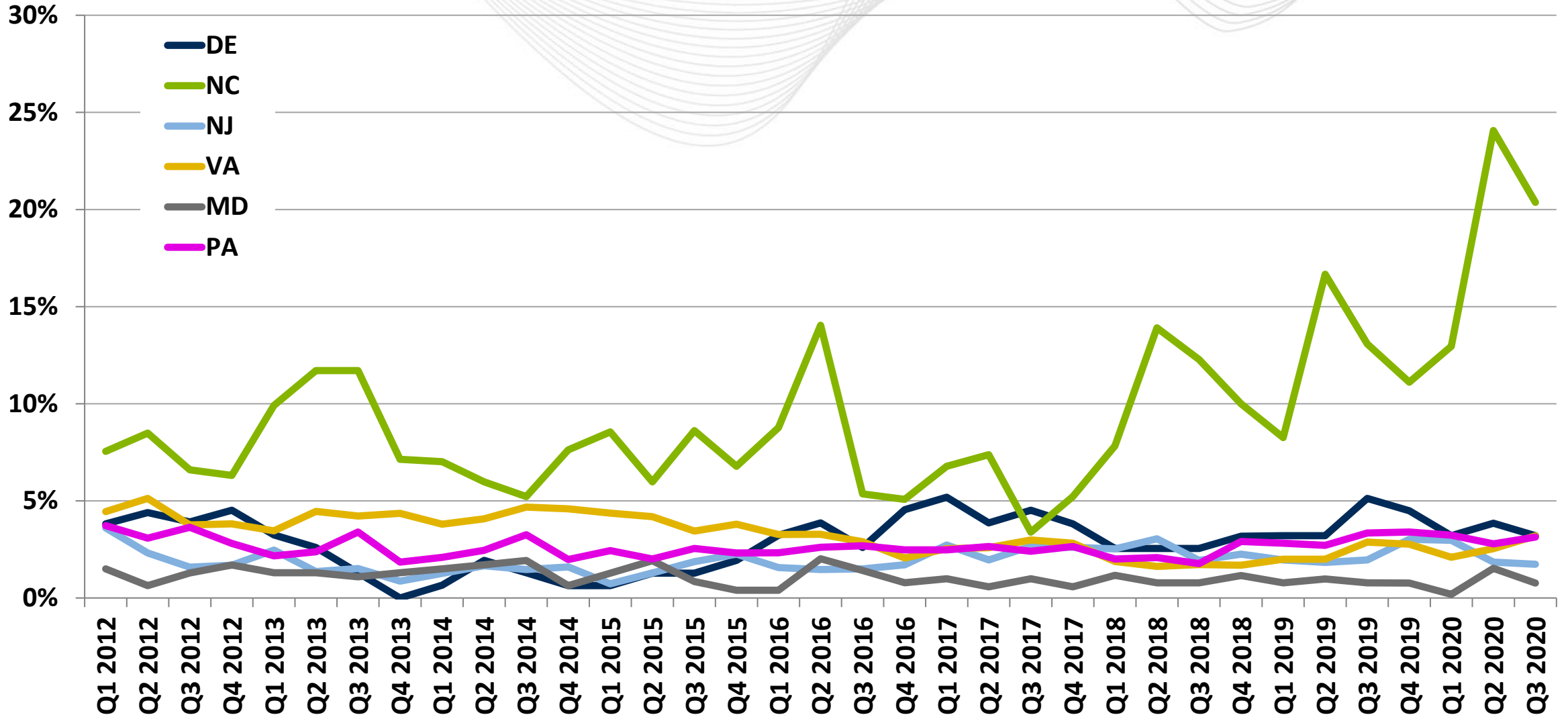
PJM Load Busses with Negative Energy on Average



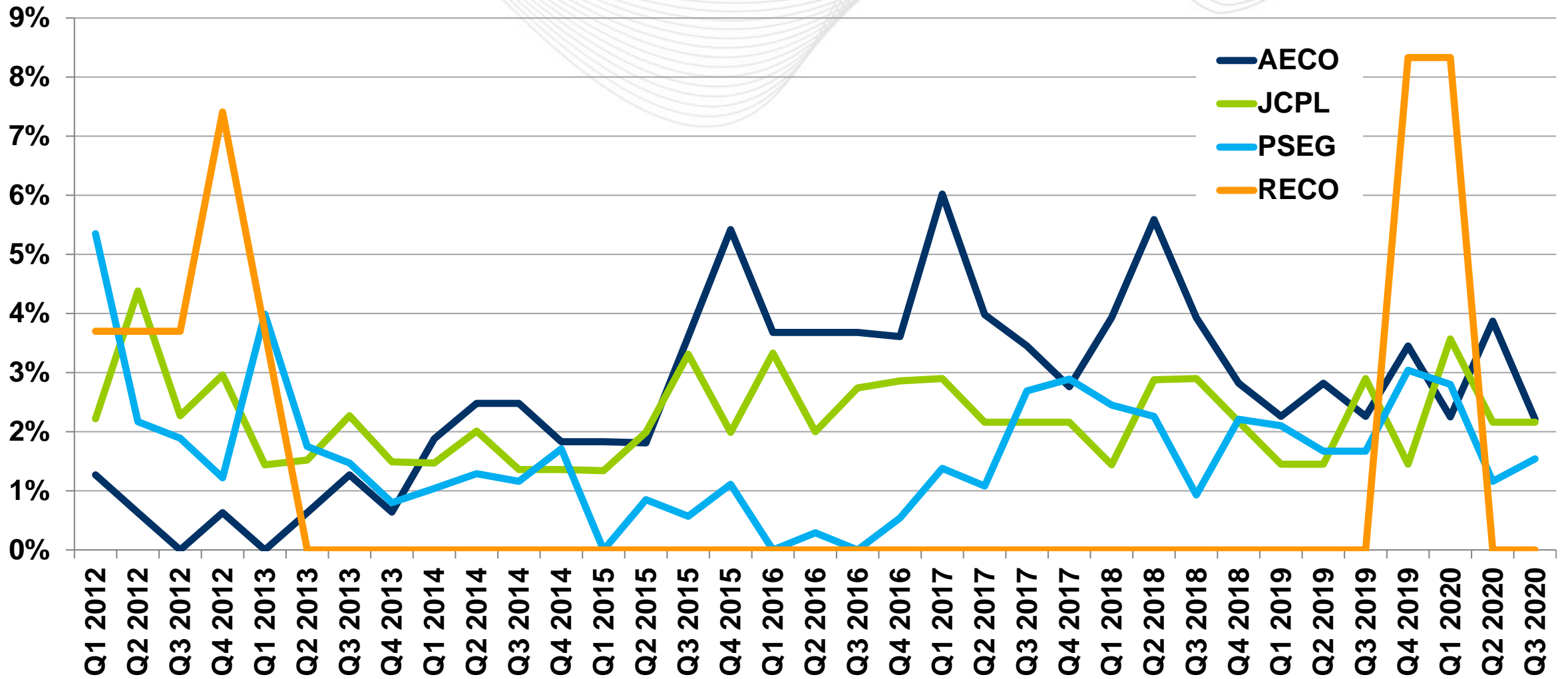
* The total number of PJM load busses is 10,232 as of the most recent model build.



Mid-Atlantic State Load Busses with Negative Energy on Average



New Jersey Load Busses with Negative Energy on Average



- Last quarter it was noted that there had been a large increase (174) in the total number of load nodes solving negative on average since Q1 2019 (slide 3). That number declined in Q3 2020. Over the past year and a half PJM has had many requests to improve modeling of lower voltage areas, especially in Ohio. PJM will continue to tune the model in this area.
- NC had a decrease in the number of negative load buses in Q3. This is attributable to utility-scale solar facilities that are not participating in the PJM Market. NC counts typically increase in Q1 and Q2 then decrease in Q3 and Q4 (slide 4).
- The seemingly large increase in the number of negative load buses in the RECO zone in Q4 2019 and Q1 2020 was actually just two nodes at one station solving at a small negative value (slide 5). Metering coming into the EMS was inverted, which was corrected earlier this year.
- PJM continues to track this data to improve its EMS Network Model. To date, trends have not been indicative of an underlying Net Energy Metering issue.

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Net Energy Injections at Load Busses



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