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| SMOGRR Number | [034](https://www.ercot.com/mktrules/issues/SMOGRR034) | SMOGRR Title | Remove Obsolete Gray Box regarding NPRR1020 |
| Date Posted | May 20, 2025 |
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| Requested Resolution  | Normal |
| Settlement Metering Operating Guide Sections Requiring Revision | 4.1, Standard IDR Channel Assignments |
| Related Documents Requiring Revision/Related Revision Requests | None |
| Revision Description | This Settlement Metering Operating Guide Revision Request (SMOGRR) removes obsolete gray box language associated with Nodal Protocol Revision Request (NPRR) 1020, Allow Some Integrated Energy Storage Designs to Calculate Internal Loads. |
| Reason for Revision |  [Strategic Plan](https://www.ercot.com/files/docs/2023/08/25/ERCOT-Strategic-Plan-2024-2028.pdf) Objective 1 – Be an industry leader for grid reliability and resilience [Strategic Plan](https://www.ercot.com/files/docs/2023/08/25/ERCOT-Strategic-Plan-2024-2028.pdf) Objective 2 - Enhance the ERCOT region’s economic competitiveness with respect to trends in wholesale power rates and retail electricity prices to consumers [Strategic Plan](https://www.ercot.com/files/docs/2023/08/25/ERCOT-Strategic-Plan-2024-2028.pdf) Objective 3 - Advance ERCOT, Inc. as an independent leading industry expert and an employer of choice by fostering innovation, investing in our people, and emphasizing the importance of our mission General system and/or process improvement(s) Regulatory requirements ERCOT Board/PUCT Directive*(please select ONLY ONE – if more than one apply, please select the ONE that is most relevant)* |
| Justification of Reason for Revision and Market Impacts | When NPRR1020 was approved, it was envisioned that the calculation of Wholesale Storage Load (WSL) active energy (kWh) used to charge the Energy Storage Resource (ESR) would be performed in the Settlements system. Currently, this calculation is performed in the ERCOT-Polled Settlement (EPS) Meters, making this gray box no longer applicable or needed. |

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| Proposed Guide Language Revision |

## 4.1 Standard IDR Channel Assignments

(1) Interval Data Recorder (IDR) channel assignment programming for ERCOT-Polled Settlement (EPS) Meters shall conform to the following:

(a) Unidirectional meters for Loads:

(i) Channel 1 shall record active energy (kWh) flowing out of the ERCOT System;

(ii) Channel 2 shall record reactive energy (kVArh) flowing out of the ERCOT System (quadrant 1 plus quadrant 2); and

(iii) Channel 3 shall record reactive energy (kVArh) flowing into the ERCOT System (quadrant 3 plus quadrant 4).

(b) Bi-directional meters and generation meters with no Resource Entity calculated auxiliary Load:

(i) Channel 1 shall record active energy (kWh) flowing out of the ERCOT System;

(ii) Channel 2 shall record reactive energy (kVArh) flowing out of the ERCOT System (quadrant 1 plus quadrant 2);

(iii) Channel 3 shall record reactive energy (kVArh) flowing into the ERCOT System (quadrant 3 plus quadrant 4); and

(iv) Channel 4 shall record active energy (kWh) flowing into the ERCOT System.

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(c) WSL meters that include a Resource Entity calculated auxiliary Load and a Transmission and/or Distribution Service Provider (TDSP) calculated Wholesale Storage Load (WSL):

(i) Channel 1 shall record active energy (kWh) flowing into the Energy Storage Resource (ESR);

(ii) Channel 2 shall record reactive energy (kVArh) flowing into the ESR (quadrant 1 plus quadrant 2); and

(iii) Channel 3 shall record reactive energy (kVArh) flowing out of the ESR (quadrant 3 plus quadrant 4).

(iv) Channel 4 shall record active energy (kWh) flowing out of the ESR.

(v) Channel 5 shall record auxiliary Load active energy (kWh) from Resource Entity provided Real-time telemetry.

(vi) Channel 6 shall record the WSL calculated active energy (kWh) used to charge the ESR.

(2) TDSPs may utilize other recording channels, on EPS Meters equipped with more than the required channels, for additional data recording, provided the utilization of such channels does not interfere with the EPS Meter settlement requirements or the ability of the Meter Data Acquisition System (MDAS) to retrieve the settlement data. In addition, the interval length for any optional channels retrieved by MDAS shall be consistent with the settlement data interval. Use of more than 16 channels shall require ERCOT approval.