

## Manual 14D (Generator Operational Requirements), Appendix A

### APPENDIX A: Behind the Meter Generation Business Rules

#### Definition and Purpose of Behind-the-Meter Generation (BtMG)

(1) The purpose of these rules is to permit ~~owner/operator of market participants operating~~ Behind-the-Meter Generation (BtMG) to receive the associated benefits. These benefits are recognized by allowing such generation to net for the purposes of calculating transmission, capacity, ancillary services, and administrative fee charges.

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#### BtM Adjustment Process

(38) Parties seeking a BtMG adjustment of any type must notify PJM at BTMG@pjm.com. The BtMG request must contain the following information:

- Contact name, company, email address and phone number
- Name of generation unit(s) and EIA plant and unit identification numbers
- Summer net dependable rating of the unit(s)
- Name of the applicable Load Serving Entity and Electric Distribution Company
- If applicable, written approval from the owner, lessee or operator of a distribution facility used to deliver energy from the BtM generator to load
- For non-retail BtM generation, the phone number to be added to the PJM all-call list

(39) PJM will respond to the request and coordinate data and information flow between all affected parties (customer, LSE, EDC, etc.) to determine eligibility, peak load adjustments, etc.

#### Transmission Owner BtMG Reporting and Communication Process

(40) PJM will maintain a list of municipal electric systems, electric cooperatives and electric distribution companies by transmission zone which will be verified by Transmission Owners on an annual basis.

(41) PJM will provide each Transmission Owner with a list of BtMG facilities greater than 1 MW located within the relevant transmission zone, delineated by municipal electric system, electric cooperative and/or electric distribution company. Transmission Owner will then provide PJM the necessary information to determine the impact of BtMG during a manual load dump event or other emergency situations on an annual basis. PJM will include the Transmission Owner verified BtMG information in the

Post Contingency Local Load Relief Warning (“PCLLRW”) tool or other tool as applicable. Transmission Owner will provide the following information<sup>1</sup> for each BtMG and as defined in Manual 3A, Appendix C:

- PJM Transmission Substation - Electrically connected Transmission Substation PJM 8 character EMS name.
- Voltage (kv) - Voltage (PJM EMS terminal voltage at high side of load transformer). If connected at distribution system then this should be the high side voltage at PJM interconnection facility.
- PJM equipment name – Official PJM name for equipment (transformer, line, loads) PJM 8 character.

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(42) Transmission Owner may provide additional or updated information for BtMG facilities (i.e., contact information, typical operational mode, start up time, etc.) on the list or add BtMG facilities to the list as appropriate. Transmission Owner may also review and update the BtMG information more frequently than on an annual basis. PJM will maintain confidentiality of all information provided by Transmission Owner and will only release such information under conditions governed by Operating Agreement, section 18.17.

(43) Transmission Owner may coordinate with BtMG facility either directly, or through electric distributor, during expected prolonged emergency load dump/shed or as otherwise necessary to help mitigate a grid emergency. As BtMG facilities do not participate in the wholesale energy market any request by PJM to operate is on a voluntary basis.

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<sup>1</sup> If BtMG is connected to more than one transmission substation then Transmission Owner will provide up to 3 connected transmission substation as needed.

**Manual 3A (Energy Management System (EMS) Model Updates and Quality Assurance (QA), section 1.2.1**

Provide generator location and contact information.

o The knowledgeable party should provide path that electrically connects facility with a Bulk Electric System (BES >100 kV) substation or at minimum the transmission station for which the path connects.

– This is the closest electrical path, or least impedance path, that is a normally closed-in path with a BES Station facility that is expected to supply this BtMG facility.

Section 1: General Requirements

o BtMG facility's generation typically reduce the amount of load that is supplied through the identified path from the BES station.

- Determine the feasible options for providing telemetry of generating units MW/MVAR output and status of switching devices. See Manual 14D, Appendix A for details.

o Manual 14D, Section 4.1.7 identifies guidelines for metering/telemetry installations

o Manual 14D, Section 4.2.3 identifies metering for individual generators

[o Manual 14D, Appendix A includes the Transmission Owner BtMG reporting and communication process](#)

When BtMG is 10 MW or greater (or has been identified as requiring metering for operational security reasons) provide engineering data updates for generator, transmission and distribution system models to PJM and other TOs as necessary

- Provide equipment model. The information submitted for the BtMG's NERC EIA-860 list should be used as a reference by the knowledgeable party for completing the form found at: <http://pjm.com/committees-and-groups/subcommittees/dms.aspx>. See Appendix D for details for form completion and submission. This NERC EIA-860 submission is at the following website: <http://www.eia.gov/electricity/data/eia860/> (refer to detailed data in zipped files on right side of page, "3\_1\_Generator" spreadsheet).

**Manual 13 (Emergency Operations)**

**Comment [PeteL1]:** To be determined