



ENABLING BATTERY ENERGY STORAGE SYSTEMS TO PARTICIPATE IN THE DEMAND RESPONSE AND INTERRUPTIBLE LOAD PROGRAMMES

ADDENDUM TO FINAL DETERMINATION PAPER

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1. On 21 October 2024, the Energy Market Authority (“EMA”) issued a Final Determination Paper on ‘Enabling Battery Energy Storage Systems to participate in the Demand Response and Interruptible Load programmes’ (“Final Determination Paper”). The paper stated that Battery Energy Storage Systems (“BESS”) with nameplate rating of 1MW or more but below 10MW may participate in the Demand Response (“DR”) and Interruptible Load (“IL”) programmes, subject to a cap of 150MW for the overall BESS capacity that can be registered as DR/IL assets.
2. The Final Determination Paper specified that such BESS should:
 - (i) Be registered as a Generation Settlement Facility (“GSF”) under the Market Rules and be levied the prevailing market/reserve charges where applicable.
 - (ii) Not receive payments for their injection energy quantity, to ensure that the BESS will not earn both DR and energy payouts. Such BESS will continue to pay for their withdrawal energy quantity and fair share of prevailing market/reserve charges.
3. EMA subsequently determined a revised approach that would be aligned with the policy intent of allowing embedded BESS installations with a nameplate rating of 1MW or more but below 10MW to participate in the DR/IL programmes, while reducing cost and time needed to implement the system changes required by the Energy Market Company and SP Services Ltd. Under this revised approach, BESS installations participating in the DR/IL programmes:
 - (i) Are to be registered as part of a Load Registered Facility (“LRF”);
 - (ii) Will be treated as part of the relevant LRF, without the need for the BESS installation to be registered as a GSF;
 - (iii) Will not be subject to the market charges applicable to a GSF and will also not be paid for any energy discharged from the BESS installations and injected into the power grid; and
 - (iv) If the LRF is paired with solar PV, the installation of a meter at the solar generation point may be required. This prevents the risk of the LRF receiving energy and DR/IL payments for the BESS.
4. For clarifications, please contact us at EMA_ECDD_Demand@ema.gov.sg.