# Chapter 2: Submission Rights, Requirements and Timing

EIRGRID **semo** SONI
Single Electricity
Market **Operator**

- Participating in the TSC arrangements is mandatory for all units above the De Minimis Threshold, and therefore all of these units must provide some level of data:

    - For some which cannot be physically dispatched / controlled, registration data may be all that is required for imbalance settlement;
    - For others which can be physically dispatched / controlled, additional detailed data is required to determine their operation on system and settlement of balancing actions.

- Units of different types and with different attributes have different rights and obligations for submission of data.

# Submission Rights, Requirements and Timing – 2/7

- Data types submitted include the following:
  - (Validation) Registration Data ((V)RD):
    - Used to identify and categorise units based on characteristics and represent some aspects of how a unit physically operates which tend to not change frequently over time.
  - Physical Notification Data (PND):
    - Used to represent the generation profile desired by a unit in the absence of responding to requests for balancing services, forming the start point of scheduling and dispatch, and used in settlement. Also includes data for requesting Unit Under Test status.
  - (Validation) Technical Offer Data ((V)TOD):
    - Used to represent how a unit physically operates so it can be modelled in scheduling and dispatch and settlement.
  - Grid Code Data:
    - Used in addition to TOD and VRD to reflect how a unit physically operates in areas which aren't related to the balancing market or which are related to real-time operational data updates, for scheduling and dispatch.
  - Commercial Offer Data (COD):
    - Used to represent the costs of operating and forecasts of the unit's power and energy availability, for scheduling and dispatch and settlement.

# Submission Rights, Requirements and Timing – 3/7

| Unit Type / Data Type | Registration Data | Physical Notification Data | Grid Code / System Data | Technical Offer Data | Commercial Offer Data |
|---|---|---|---|---|---|
| Dispatchable Generator; Autoproducer Unit | 🟢 | 🟢 | 🟢 | 🟢 | 🟢 |
| Controllable/non-Dispatchable Generator | 🟢 | 🟠 | 🔴 | 🔴 | 🔴 |
| Dispatchable Generator with Priority Dispatch and Zero Marginal Costs | 🟢 | 🟢 | 🟢 | 🟢 | 🟣 |
| Demand Side Unit | 🟣 | 🟢 | 🟣 | 🟣 | 🟣 |
| Supplier Unit (incl. ASU); Trading Site Supplier Unit | 🟣 | 🟠 | 🔴 | 🔴 | 🔴 |
| Energy Limited Generator Unit | 🟢 | 🟢 | 🟣 | 🟢 | 🟣 |
| Assetless Unit; Trading Unit; Interconnector Error Unit; Interconnector Residual Capacity Unit; Non-Controllable and Non-Dispatchable Generator | 🟣 | 🔴 | 🔴 | 🔴 | 🔴 |
| Dual Rated Generator Unit | 🟢 | 🟢 | 🟣 | 🟢 | 🟢 |
| Interconnector | 🟢 | 🔴 | 🟣 | 🔴 | 🔴 |
| Pumped / Battery Storage Unit | 🟣 | 🟢 | 🟢 | 🟣 | 🟣 |
| Registered Generator Unit Below De Minimis Threshold; Aggregated Generator Unit | 🟢 | 🟣 | 🔵 | 🔵 | 🔵 |

🟢 Must Submit  🟠 May Submit  🔴 Must not Submit
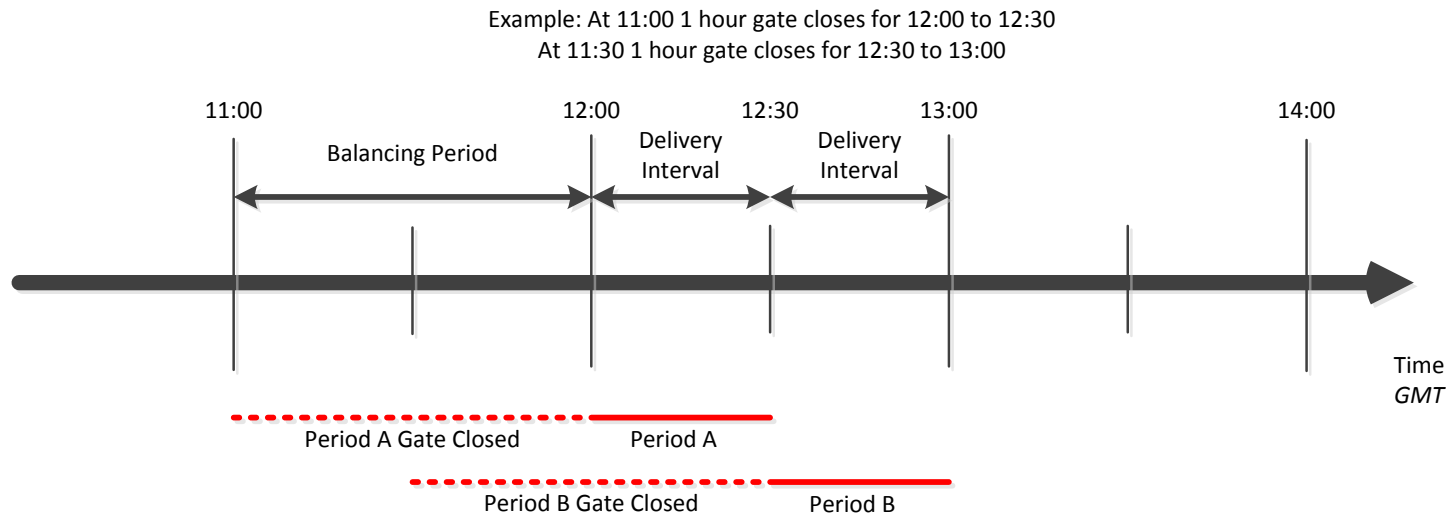🔵 Depends on Configuration  🟣 Submitted with Specific Requirements

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- Participants are obliged to provide data within certain timeframes:
  - Registration data within registration timeframes;
  - Default COD and VTOD must be submitted as part of registration to ensure that there will always be some form of this data available if data is not submitted for a given day or period. Participants must review and update as necessary at least once per quarter;
  - (Note that the default data submission in registration is part of the enduring registration process, a slightly different process was undertaken for the transitional registration process pre-go-live);
  - Trading Day and Imbalance Settlement Period specific COD, TOD and PND between Balancing Market Gate Opening and Gate Closure times.

- Different timelines may apply in Emergency Communications situations, with such extensions to data submission beyond Gate Closure Times determined as required by the MO;

- The Market Operator has the right to query data, when submitted:
  - This is not a part of the validation process, and data will not be rejected or changed on the basis of such as query;
  - The MO can raise a query to inform the participant if data looks incorrect, but the obligation and right to change the data rests with the participant only.

- There are technical requirements which must be met in participants submitting data;

- Some unit types must submit a certain subset of data, or must submit particular values in their data transaction.

# Submission Rights, Requirements and Timing – 5/7

- The Balancing Market Gate Opening Time is the time from which data can be submitted for a given period:
  - At 12:00 TD-19 data submission for the Trading Day opens, Participants can submit data relevant to number of individual days up to 19 days in advance;
  - e.g. if it is currently 13:00 on 01/04/2018, the latest Trading Day for which data can be submitted would be 19/04/2018.
- There are two Balancing Market Gate Closure times:
  - Gate Closure 1 (GC1):
    - At 13:30 TD-1 data submission closes for a Trading Day for some data, and default data rules apply for other elements of data;
    - At this time Data submission closes for Validation Data Set (VDS) Number for the Trading Day, no resubmission of VDS Number is possible for Trading Day after GC1 except for allowances for change in timelines following Emergency Communications processes;
    - If no initial PND and COD submitted to be used in scheduling and dispatch, default/standing values will be used until updated values submitted.
  - Gate Closure 2 (GC2):
    - At 1 hour before the start of each Imbalance Settlement Period, data submission closes for all data;
    - Data submission closes for PND and COD to be used in dispatch, pricing and settlement.

- Balancing Market Gate Closure 2 for an Imbalance Settlement Period:

  – After this point in time all data submission for a period is no longer possible;

  – Aligned with Intraday continuous gate closure;

  – On the hour and half-hour, every half-hour, the following 90 minutes are "Closed";

  – A period is considered "Open" if GC2 for the period has not yet passed.

Example: At 11:00 1 hour gate closes for 12:00 to 12:30
At 11:30 1 hour gate closes for 12:30 to 13:00

- A Bid Offer Acceptance (BOA) is where a unit in the Balancing Market is dispatched differently to their market position (as represented through a unit's PND), thus accepting an offer if the unit was dispatched higher, or accepting a bid if the unit was dispatched lower. The quantities and prices associated with a BOA are calculated using PND, VTOD and COD;

- For PND, the final data at GC2 (the unit's Final Physical Notification) will be used to calculate Bid Offer Acceptances;

- However for COD it is not only the final data at Gate Closure 2 which will apply in all cases. Each submission over time for a period may be used in pricing and settlement based on the timing of accepting offers and bids, and the timing of updating this data;

- This is because Dispatch Instructions which affect an Imbalance Settlement Period can be issued at any time before or after GC2 for that period. For example, a dispatch instruction five hours in advance of the period would be required to synchronise a unit with a five hour notice time;

- The COD which is present and active for the period at the time of the instruction giving rise to the BOA is the COD used to calculate the quantities and prices for that BOA. In this instance, the COD which is present for that period at the time of the Dispatch Instruction, five hours before the period, applies to the BOA even if the COD for that period is updated afterwards before GC2;

- The Imbalance Settlement training materials will cover this in more detail.