

Relationship between Power Park Modules and BM Units

- Details of each Power Park Module, ie the number of Power Park Strings and Power Park Units that it is comprised of, should be submitted as required under the Grid Code.
- A BM Unit relates to an infeed onto (or offtake from) the NETS.

The relationship between Power Park Modules and BM Units will depend on the configuration of the connection site. Since, in theory, the BM Unit is the interface point it is the configuration of the user site that determines the PPM/ BMU relationship. In some cases the TO may own the connection site and it would then be the configuration of the TO equipment that would determine the PPM/ BMU relationship.

Options to capture the PPM/ BMU relationship include:

Telemeter all of the switchgear that can affect the configuration of the site.

This would allow the PPM/BMU relationship to be determined in real time by inspection of the SCADA system diagrams.

If the site is owned by the generator then in planning timescales the expected state of the switchgear would need to be submitted to the SO as well as the PPM matrix. However the status of the switchgear is less likely to be telemetered.

If the site is owned by the TO then the SO would have control of the configuration and the status of the switchgear is more likely to be telemetered. However the SO would need to advise the generator of the actual/ planned configuration so that the generator can make accurate BM submissions.

Extend the PPM Matrix to include the BMU that each PPM is part of.

The PPM matrix that is submitted for each PPM would include the BMU that the PPM is part of..

This approach could be used in all timescales.

If the site is TO owned then the SO would need to advise the generator of the actual/ planned configuration so that the generator can make accurate PPM Matrix and BM data submissions.

Change the PPM Matrix so that it becomes a BMU matrix.

Instead of submitting a PPM matrix for each PPM the generator would submit a BMU Matrix for each BMU. This would include which PPMs are in the BMU as well as the number of Power Park Strings and Power Park Units in the PPM.

This approach could be used in all timescales.

If the site is TO owned then the SO would need to advise the generator of the actual/ planned configuration so that the generator can make accurate BMU Matrix and BM submissions.

Proposal

The last option, submission of a BMU Matrix, is most likely to provide data in a format that is easiest to use. If the SO controls the site configuration then the generator may only need to provide a PPM Matrix.

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