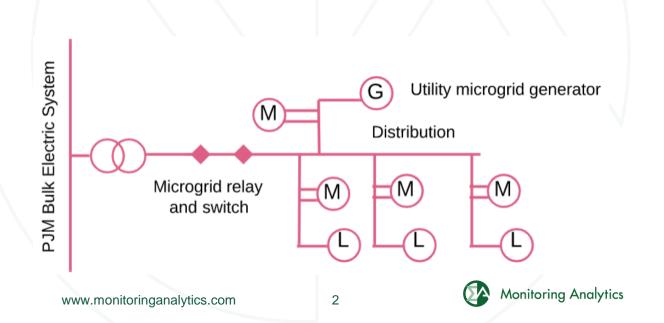
Utility Microgrid

DERS July 15, 2019 Skyler Marzewski



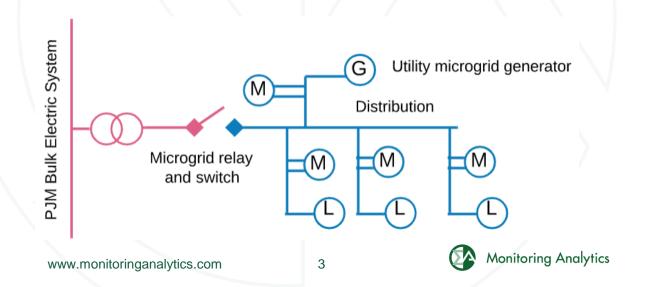
Connected Microgrid

- Generator functions as a PJM resource
- Microgrid load pays LMP



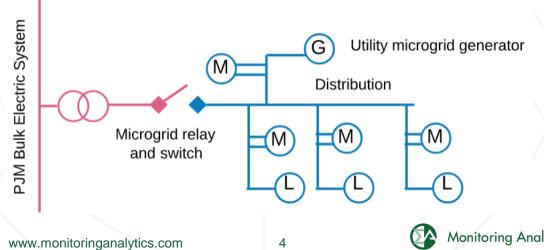
Islanded Microgrid

- Generator cannot access PJM and can only serve local load
- Distribution network supplied by local generator, cannot access PJM



LMP and Load Settlements

- LMP on PJM is irrelevant for the microgrid
- Load and generation are settled locally within the microgrid
- No longer wholesale power when islanded



Generation Specifics when Islanded

- Status Unit is not available, on outage
- **Ancillary Services Unit is deassigned and will face** any penalties associated with deassignment
- PAI Unit is not available, generation MWh not counted towards Wholesale Capacity Requirement as it is no longer able to supply power to the wholesale grid

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