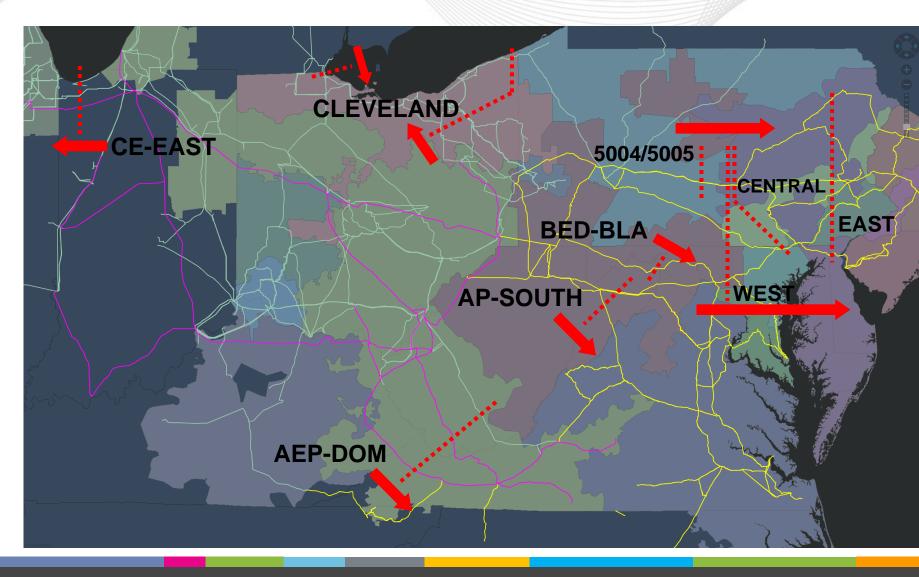


IROL Monitoring -PMU Application

Jordan Shenk Reliability Engineer PJM Interconnection



Reactive Transfer Interfaces



Reactive Transfer Interface: Interface where transfer cause voltage violations to occur prior to thermal limitations.

Pre-Defined

- Facility
- Source
- Sink

Historically more limiting than experienced recently.





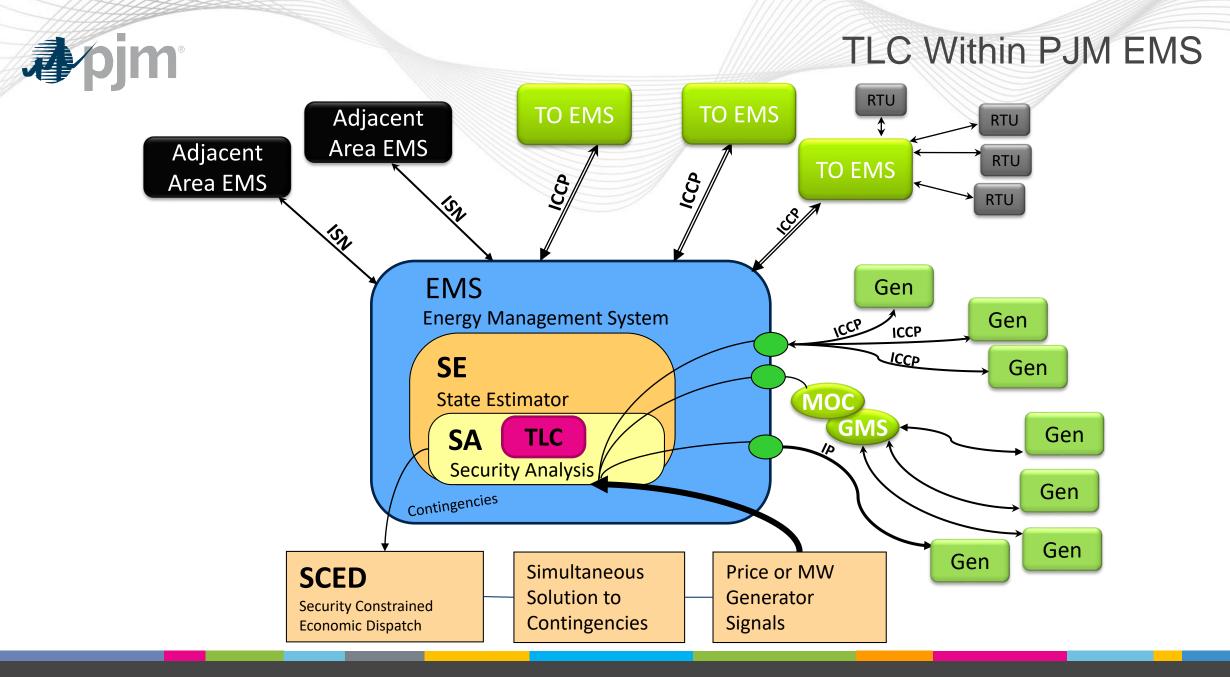
Interconnection Reliability Operating Limit (IROL)

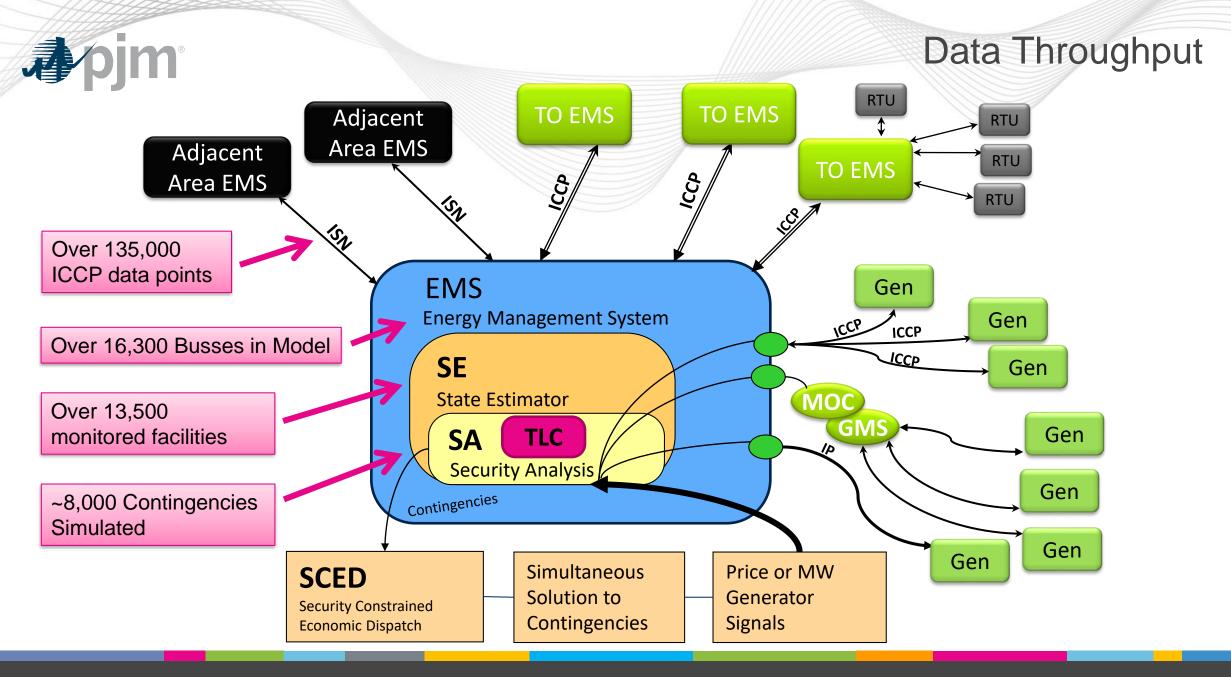
"a System Operating limit that, if violated, could lead to instability, uncontrolled separation, or Cascading outages that adversely impact the reliability of the Bulk Electric System (BES)."

"facilities that if exceeded have the potential to result in wide-area voltage collapse." NERC Glossary of Terms

PJM Manual 37

IRO-002 R7	Back-up monitoring of IROL facilities	
TOP-001 R13	Real-Time assessment every 30 minutes	
TOP-004 R4	Recovery from unknown operating state within 30 minutes	E.g. Transfer limits have not been determined







Back-up IROL Monitoring

