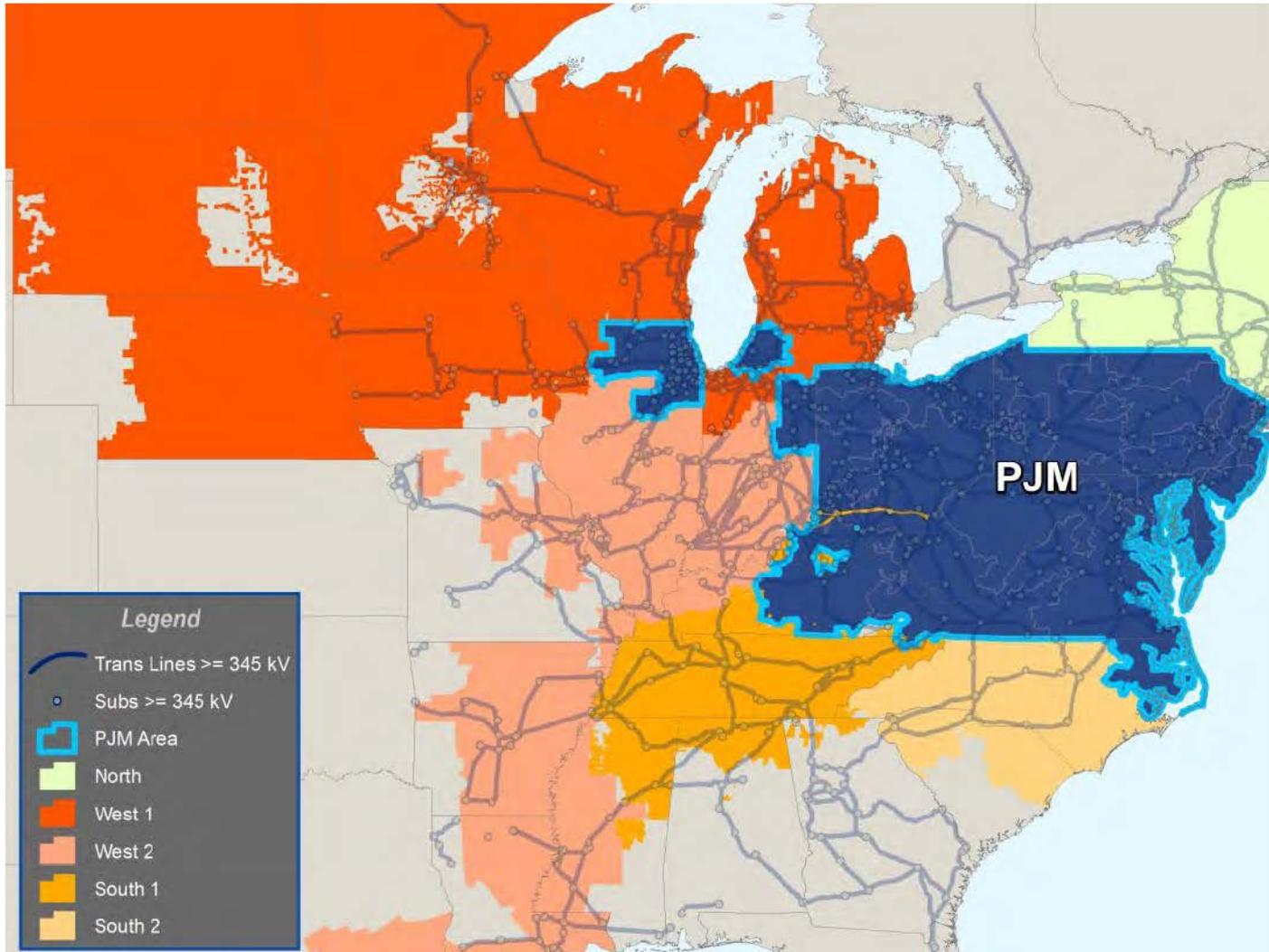


Long Term Transmission Service Modeling and Studies

Aaron Berner
Manager, Interconnection Analysis
aaron.berner@pjm.com
October 29, 2015



- 1000 MW transfers (Export from PJM to CIL zones – North, West1, West2, South1, South2)
LTFs modeled at All Import and 65% Export in basecase
 - 65% export modeled in base case allows only 65% of transfers to back off import flows
 - Exports ramped from 65-100% in subsystem file
 - CBM modeled
 - Monitored PJM areas using existing thresholds
 - Monitored external areas using proposed thresholds

Area	North		South1		South2		West1		West2	
	5 DF or 5% Rating	3 DF or 3% Rating								
AEP	12	34	12	34	12	34	12	34	12	34
AEP-AP	0	1	0	1	0	1	0	1	0	1
AEP-ATSI	1	1	1	1	1	1	1	1	1	1
AEP-DEOK	1	1	1	1	1	1	1	1	1	1
AEP-DUQ	0	1	0	1	0	1	0	1	0	1
AP	1	3	1	3	1	3	1	3	1	3
ATSI	1	1	1	1	1	1	1	1	1	1
ComEd	10	11	10	11	10	11	10	11	10	11
DEOK	0	1	0	1	0	1	0	1	0	1
DOM	1	13	1	13	1	13	1	13	1	13
DUQ	1	1	1	1	1	1	1	1	1	1
EKPC	2	8	2	8	2	8	2	8	2	8
Penelec	4	7	2	5	2	5	2	5	2	5
PPL	2	2	2	2	2	2	2	2	2	2

Area	North		South 1		South 2		West 1		West 2	
	5 DF or 5% Rating	3 DF or 3% Rating								
	NYISO-Penelec	2	2	0	1	0	1	0	1	0
OVEC-AEP	0	2	0	2	0	1	0	1	0	1
OVEC-DEOK	0	1	0	1	0	1	0	1	0	1
DEOK-DAY	0	1	0	1	0	1	0	1	0	1
CPLW-AEP	0	1	0	1	0	1	0	1	0	1
LGEE-OVEC	1	1	1	1	1	1	1	1	1	1
LGEE-AEP	0	1	0	1	0	1	0	1	0	1
EKPC-LGEE	0	1	0	1	0	1	0	1	0	1
ComEd-AMIL	0	1	0	1	0	1	0	1	0	1

- All Import and 65% Export in basecase
- 65% export modeled in base case allows only 65% of transfers to back off import flows
- Exports ramped from 65-100% in subsystem file
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- Monitored PJM areas using existing thresholds
- Monitored external areas using proposed thresholds

Area	5 DF or	3 DF or
	5% Rating	3% Rating
APS	1	2
ATSI	1	1
AEP	10	21
ATSI - AEP	1	1
AEP - APS	0	1
AEP - DEOK	1	1
DEOK	0	1
ComEd	8	9
ComEd-AMIL	0	1
Penelec	1	3
DOM	1	9
OVEC-AEP	2	2
OVEC-DEOK	0	1
DEOK-DAY	0	1
EKPC	2	4
DLCO	1	1

- CIL studies identify some additional facilities not captured by generation deliverability
- Future studies may identify additional flowgates not currently identified as constrained
- System flows would again indicate a mismatch between the generation deliverability and CIL study processes

- Possible solutions
 - Refuse to accept additional transmission service along paths which show CIL constraints
 - PJM identifies CIL related upgrades for PJM facilities
 - Allow service to be granted following mitigation of PJM facility constraints – disregard CIL impacts on external flowgates?
 - Require customer approach affected system entity to upgrade facilities identified in CIL studies

- Discuss any feedback regarding new methodology proposed
- Determine path forward for CIL concerns
- Determine group feedback to Planning Committee