



Public 2nd Draft ELCC Results

Patricio Rocha-Garrido
August 12, 2020
PJM CCSTF

- **The 2nd Draft ELCC Results**
 - Reflect the new dispatch methodology discussed at the July 27th meeting
 - Are based on the same portfolios used for the 1st Draft ELCC Results
 - Only include ESR with 4-hour Duration (results for ESR with 6-hour and 10-hour are not included)
 - Use generic features for Hydro with Storage resources (shown in next slide)

Deployment (in Gigawatts) for the 6 Scenarios

#	Wind	Solar	Storage (4,6, or 10 hour)	Storage (8 hour)	Solar + Storage Hybrid (Open Loop)	Solar + Storage Hybrid (Closed Loop)	Hydro w/o Storage	Landfill Gas	Hydro w/ Storage
1	12	7	0.4	5	0.3	0.3	0.7	0.3	2
2	15	11	0.9	5	0.5	0.5	0.7	0.3	2
3	19	16	1.5	5	0.8	0.8	0.7	0.3	2
4	22	22	2	5	1	1	0.7	0.3	2
5	23	31	3	5	2	2	0.7	0.3	2
6	25	40	5	5	2	2	0.7	0.3	2

- Total ICAP = 2,340 MW
- Hourly Minimum Level (July) = 0 MW
- Hourly Maximum Level (July) = 2,340 MW
- Average Hourly Inflow Parameter (July) = 778 MWh (33% of ICAP)
- Storage available (normal plus exigent; July) = 9,952 MWh
 - ~ 4 hours at maximum level
 - It takes around 13 hours to refill the storage



2nd Draft ELCC Results w/ New ESR as 4-hour Duration

#	Wind	Solar	Storage (4 hour)	Storage (8 hour)	Solar + Storage Hybrid (Open Loop)	Solar + Storage Hybrid (Closed Loop)	Hydro w/o Storage	Landfill Gas	Hydro w/ Storage
1	10%	65%	92%	100%	97%	97%	49%	58%	100%
2	9%	59%	86%	98%	96%	96%	48%	59%	97%
3	9%	49%	74%	95%	86%	86%	51%	63%	97%
4	9%	40%	75%	93%	85%	85%	51%	62%	94%
5	9%	33%	81%	94%	74%	73%	51%	61%	92%
6	9%	27%	79%	94%	71%	71%	51%	59%	94%