

Installed Reserve Margin (IRM), Forecast Pool Requirement (FPR), and Effective Load Carrying Capability (ELCC) for 2025/2026 3IA

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Highlights on Data Inputs



1. Resource Mix

a. Notice of Intent to Offer (NOI):

Planned resources that submitted a Notice of Intent for the 2025/2026 3rd IA were included in the Assumed Resource Mix

b. Installed Capacity Ratings (ICAP Ratings):

Resources ICAP Ratings were updated to reflect any loss of Capacity Interconnection Rights (CIRs) after the 2024 summer period

c. Announced Deactivations:

All resources with announced deactivations scheduled to occur before June 1st, 2026 were removed from the assumed resource mix

2. Load Scenarios:

Hourly load profiles were derived using the 2024 PJM load forecast (most recently finalized PJM load forecast at the time of this posting)

3. Performance Data:

Based on data from June 1st, 2012 through May 31st, 2024



2025/26 Assumed Resource Portfolio

ELCC Class	Effective Nameplate (MW)	Installed Capacity (MW)	
Onshore Wind	11,486	2,293	
Offshore Wind	Small Sample Size	Small Sample Size	
Solar Fixed Panel	1,844	832	
Solar Tracking Panel	11,566	7,152	
Landfill Gas Intermittent	167	118	
Hydro Intermittent	736	519	
4-hr Storage, 6-hr Storage, 8-hr Storage, 10-hr Storage	5,609	5,609	
Solar-Storage Hybrid	Small Sample Size	Small Sample Size	
DR	n/a	7,934	
Nuclear	n/a	32,147	
Coal	n/a	36,044	
Gas CC (Single and Dual Fuel)	n/a	56,719	
Gas CT	n/a	11,122	
Gas CT Dual Fuel	n/a	13,117	
Diesel	n/a	333	
Steam	n/a	9,851	
Hydro with Non-Pumped Storage	2,034	1,969	
Other Thermal	n/a	3,151	



2025/26 ELCC Class Ratings

ELCC Class	Final Rating
Onshore Wind	38%
Offshore Wind	62%
Solar Fixed Panel	10%
Solar Tracking Panel	14%
Landfill Gas	
Intermittent	51%
Hydro Intermittent	37%
4-hr Storage	55%
6-hr Storage	65%
8-hr Storage	68%
10-hr Storage	77%
DR	77%
Nuclear	95%
Coal	83%
Gas CC	78%
Gas CT	63%
Gas CT Dual Fuel	79%
Diesel	92%
Steam	74%

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2025/26 3IA Final ELCC Class Ratings vs 2025/26 BRA Ratings

ELCC Class	2025/26 BRA Rating	2025/26 3IA Rating	Change (%)
Onshore Wind	35%	38%	+3
Offshore Wind	60%	62%	+2
Solar Fixed Panel	9%	10%	+1
Solar Tracking Panel	14%	14%	0
Landfill Gas Intermittent	54%	51%	-3
Hydro Intermittent	37%	37%	0
4-hr Storage	59%	55%	-4
6-hr Storage	67%	65%	-2
8-hr Storage	68%	68%	0
10-hr Storage	78%	77%	-1
DR	76%	77%	+1
Nuclear	95%	95%	0
Coal	84%	83%	-1
Gas CC	79%	78%	-1
Gas CT	62%	63%	+1
Gas CT Dual Fuel	79%	79%	0
Diesel	92%	92%	0
Steam	75%	74%	-1

- Majority of ratings saw no change or a 1% shift in rating due to resource mix changes
- Increase in Onshore/Offshore
 Wind ratings are driven by the increase in the share of winter risk
- Decrease in Storage ratings are driven by updated performance data and the slightly greater share of winter risk

Seasonal Changes in 25/26 3IA vs 25/26 BRA





2025/26 3IA IRM and FPR

- The total amount of ICAP in the model is 188,920 MW
- The peak load ("solved load") that the above amount of ICAP can serve while meeting the LOLE criteria of 1 day in 10 years is 158,357 MW
- The Capacity Benefit of Ties (CBOT) is assumed to be 1.5%, the same value used in previous calculations
- Therefore, the **2025/26 3IA IRM** equals **17.8%**:
 - IRM = [(188,920 / 158,357) 1] 1.5%
 - IRM = [1.193 1] 0.015 = 17.8%
- The total amount of **Accredited UCAP** in the model is **150,438 MW**
- The **Pool-Wide Average AUCAP Factor** is 150,438 / 188,920 = **0.7963**
- Therefore, the **2025/26 3IA FPR** equals **0.9380**
 - $FPR = (1 + 0.178) \times 0.7963 = 0.9380$



2025/26 3IA IRM and FPR vs 2025/26 BRA

Parameter	BRA Value	3 rd IA Value	Change	Driving Factor
ICAP (MW)	191,693	188,920	-2,773	Resource Mix Changes
"Solved Load" (MW)	160,624	158,357	-2,267	ICAP Reduction
CBOT (%)	1.5%	1.5%	0%	n/a
Installed Reserve Margin (IRM)	17.8%	17.8%	0%	ICAP Reduction offset by Solved Load Reduction
Accredited UCAP (MW)	152,765	150,438	-2,327	ICAP Reduction
Pool-Wide Average UCAP Factor	0.7969	0.7963	-0.0006	Slightly higher winter risk which decreases overall portfolio accreditation
Forecast Pool Requirement (FPR)	0.9387	0.9380	-0.0007	Lower UCAP Factor



Requested Action

- Endorsement of the following values for 2025/26 3IA
 - 1. Installed Reserve Margin (IRM) = 17.8%
 - 2. Forecast Pool Requirement (FPR) = 0.9380



Appendix

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25/26 3rd IA LOLH Month/Hour Heatmap



25/26 3rd IA EUE Month/Hour Heatmap







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FPR, IRM, & ELCC for 25/26 3IA

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