



# 2021 RRS Preliminary Assessment Results

Patricio Rocha Garrido  
Resource Adequacy Planning  
Planning Committee  
August 31, 2021

- Study results will re-set the FPR and IRM for 2022/23, 2023/24, 2024/25 and establish initial IRM and FPR for 2025/26.
- Capacity model built with GADS data from 2016-2020 time period for all weeks of the year except the winter peak week.
  - For the winter peak week, the capacity model is created using historical actual RTO-aggregate outage data from time period DY 2007/08 – DY 2020/21 (in addition, data from DY 2013/14 was dropped and replaced with data from DY 2014/15)
- PJM and World load models based on 2001-2013 time period and 2021 PJM Load Forecast (released in January).
- Study assumptions were endorsed at June, 2021 PC meeting.
- Load Model selection was endorsed at August, 2021 PC meeting.

# 2021 RRS Results vs 2020 RRS Results

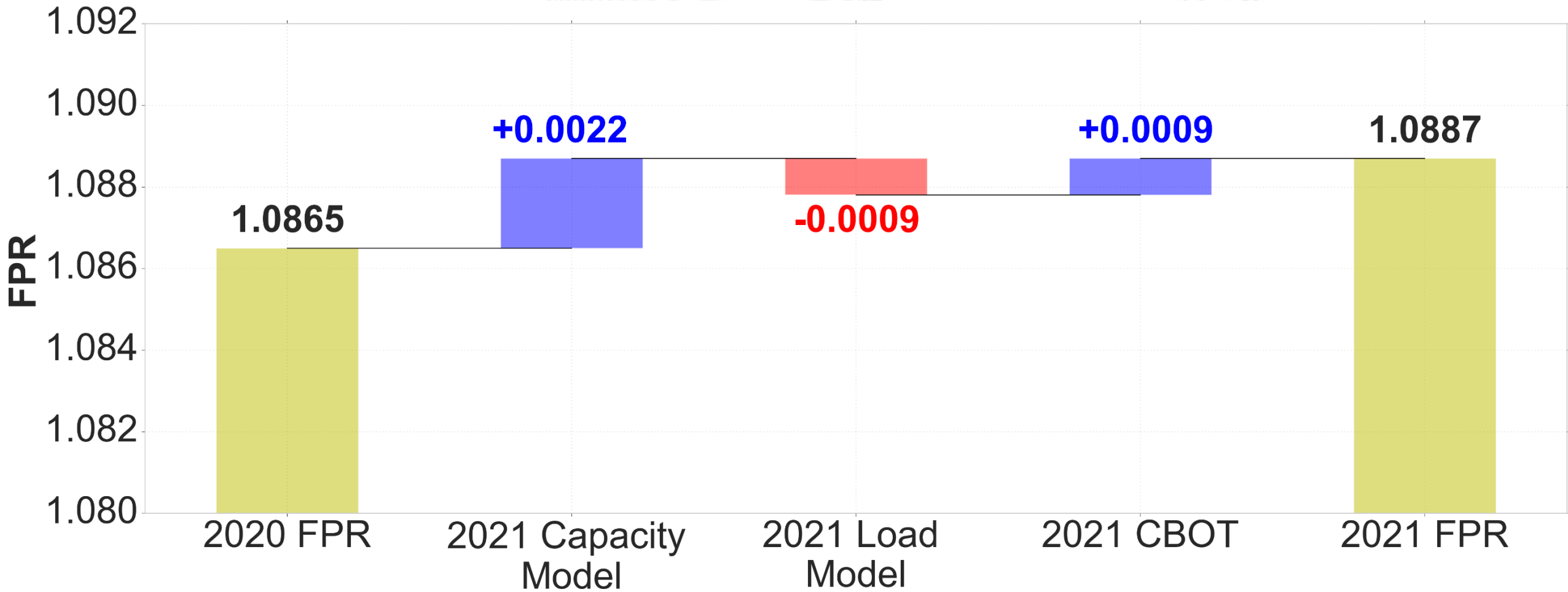
## 2021 RRS Study results:

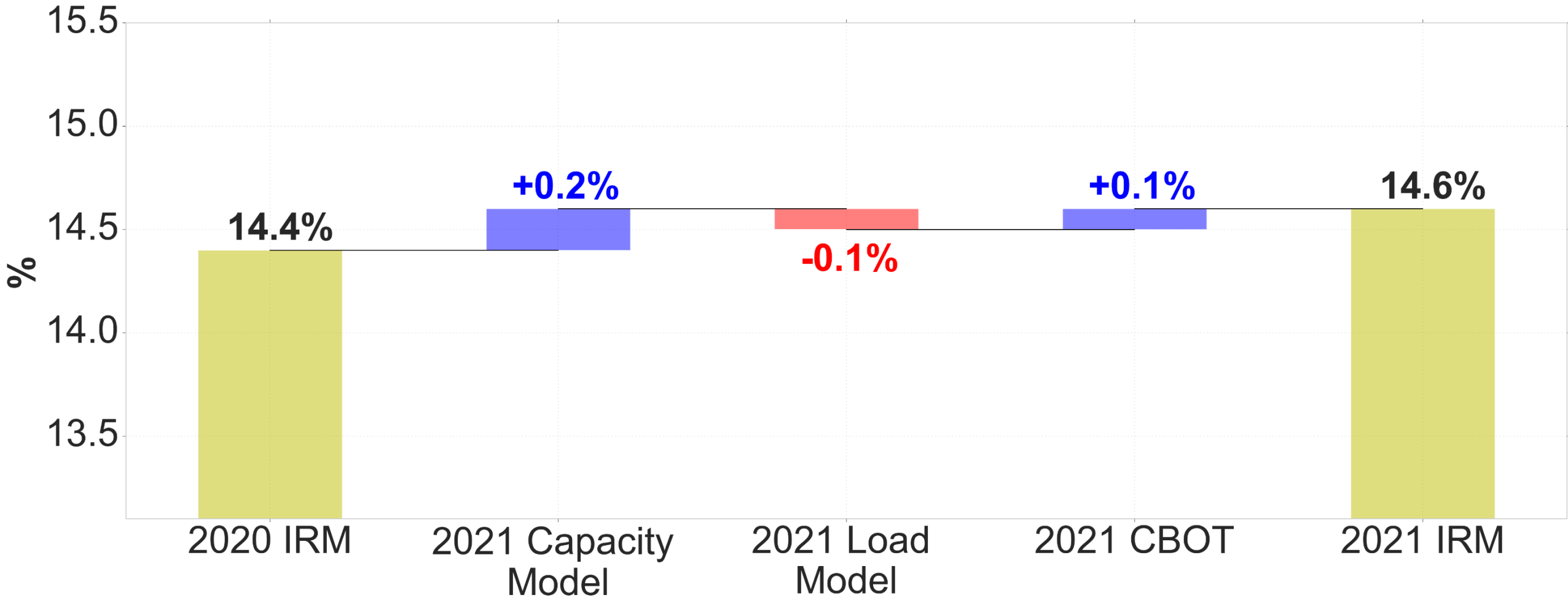
RRS Year	Delivery Year Period	Calculated IRM	Recommended IRM	Average EFORD	Recommended FPR*
2021	2022 / 2023	14.92%	<b>14.9%</b>	5.07%	<b>1.0907</b>
2021	2023 / 2024	14.74%	<b>14.7%</b>	5.02%	<b>1.0894</b>
2021	2024 / 2025	14.67%	<b>14.7%</b>	5.01%	<b>1.0895</b>
2021	2025 / 2026	14.64%	<b>14.6%</b>	5.00%	<b>1.0887</b>

## 2020 RRS Study results:

RRS Year	Delivery Year Period	Calculated IRM	Recommended IRM	Average EFORD	Recommended FPR*
2020	2021 / 2022	14.73%	<b>14.7%</b>	5.22%	<b>1.0871</b>
2020	2022 / 2023	14.51%	<b>14.5%</b>	5.08%	<b>1.0868</b>
2020	2023 / 2024	14.42%	<b>14.4%</b>	5.04%	<b>1.0863</b>
2020	2024 / 2025	14.39%	<b>14.4%</b>	5.03%	<b>1.0865</b>

\* FPR = (1 + IRM)\*(1 - Average EFORD)





- The 2021 Load Model puts downward pressure on both the FPR and the IRM
- The 2021 Capacity Benefit of Ties (CBOT) puts upward pressure on both the FPR and the IRM
  - The CBOT decreased to 1.47% (2021 RRS) from 1.54% (2020 RRS)
- The 2021 Capacity Model is driving the increase in the IRM and FPR.
  - Average unit size increased to 175 MW (in 2021 RRS) from 159 MW (in 2020 RRS)
  - The Average EEFORd in the 2021 RRS (for DY 2025) is 5.80% whereas in the 2020 RRS (for DY 2024) was 5.78 %

- Aug 31, PC: review of RRS preliminary results
- Sep, RAAS: distribution of final report, request for endorsement of recommended FPR and IRM for DY's 2022/23, 2023/24, 2024/25, and 2025/26
- Oct, PC: vote on FPR and IRM
- Oct-Nov, MRC and MC: review and vote on FPR and IRM
- Dec, PJM Board: final approval

## SME / Presenter:

Patricio Rocha Garrido,  
[patricio.rocha-garrido@pjm.com](mailto:patricio.rocha-garrido@pjm.com)

## 2021 Reserve Requirement Study



### Member Hotline

(610) 666 – 8980

(866) 400 – 8980

[custsvc@pjm.com](mailto:custsvc@pjm.com)