

# PJM Gross Avoidable Costs for Existing Generation

Proposed approach for delivery years beginning  
2030/31

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# Agenda

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1. Introduction
2. Recap of 2022 Gross Avoidable Cost Study
3. Proposed Approach for 2026 Avoidable Cost Study
4. Next Steps

## Background on default ACRs and their application

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- ✧ PJM's tariff requires PJM to update its Default Avoidable Cost Rates (ACRs) every four years, and the last update was done in 2022
- ✧ Default Gross ACRs minus unit-specific net energy and ancillary services revenues (E&AS Offset) result in Net ACRs which are used by PJM to determine default offer thresholds, the Market Seller Offer Cap (MSOC), to mitigate supplier-side market power in the capacity market
- ✧ Any resources subject to MSOCs can offer above the default net ACRs only by demonstrating higher costs through unit-specific reviews
- ✧ Default ACRs may also be used in buyer-side market power mitigation through the Minimum Offer Price Rule (MOPR) applied to existing units, although application is likely very limited

# Scope of the current analysis

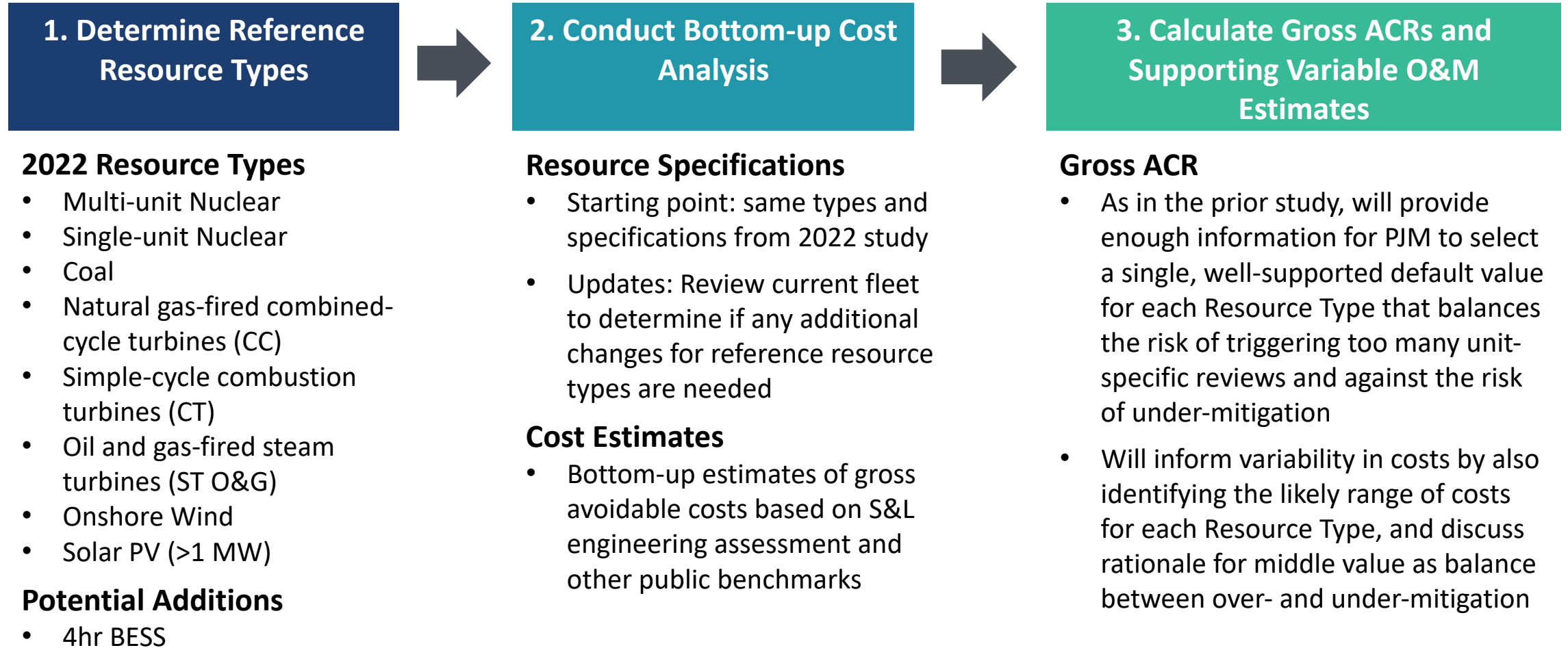
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🌀 PJM retained Brattle and S&L to provide an update following a similar approach as the 2022 study to:

- Update the gross avoidable costs for existing resource types;
- Solicit input from stakeholders on any potential new resource types to be included; and
- Draft a report summarizing methodology and conclusions

🌀 Based on this analysis, PJM will determine the resource types and Gross ACRs to file

# Overview of gross avoidable cost approach



In summary, approach is the same as 2022 study except for potentially adding 4-hr BESS

## 2022 resource types for existing generation

Plant Type	Total MW (Summer ICAP)	% of Total PJM Capacity	Recommendation
NGCC	55,828	28%	Included
Coal	41,554	21%	Included
Nuclear	32,556	16%	Included
Simple Cycle CT	28,496	14%	Included
Wind	9,911	5%	Included
ST O&G	9,240	5%	Included
Solar	7,790	4%	Included
Pumped Storage	5,243	3%	Unit-specific review
Hydro	3,319	2%	Unit-specific review
Other	3,427	2%	Unit-specific review
<b>PJM Total Installed Capacity</b>	<b>197,364</b>	<b>100%</b>	

2022 Resource Types covered ~94% of the PJM fleet (in ICAP terms)

## 2022 gross avoidable cost estimates for existing generation

Representative resource types were selected based on median values of the main cost drivers for each resource (Representative high-and low-cost plants were also identified where possible to show potential variations in costs)

Resource Type	Representative Plant (\$/MW-day)
Multi-unit nuclear	537
Single-unit nuclear	591
Coal	94
Natural gas CC	113
Simple-cycle CT	52
Steam oil & gas	64
Onshore wind	147
Large-scale solar PV	70

## Proposed approach for reference resource types

### 2022 ACR Study

**Representative Resource Types based on median values** of the main cost drivers for each resource type:

- (1) unit size
- (2) plant age and technology vintage
- (3) plant location in PJM
- (4) configuration of the units (including pollution controls)

A “representative-high” and “representative low” cost plant were identified (where possible) based on clusters of the above cost drivers

### 2026 ACR Study Proposed Approach

**Begin with 2022 representative resource types and ranges**

**Review current fleet to determine if median characteristics or ranges have changed**

**Solicit stakeholder feedback if a 4-hour BESS should be included**

**Same as 2022 Study**

## Proposed approach for bottom-up cost estimates

### 2022 ACR Study

**Aligned with PJM's Tariff, gross costs include fixed capital costs and fixed operation & maintenance (FOM) costs but not major maintenance costs** for systems directly related to electric production, since those can be included in maintenance adders for cost-based energy offers

### 2026 ACR Study Proposed Approach

**No change from 2022 study**

## NEXT STEPS

# Plan for next MIC meeting July 8<sup>th</sup>, 2026

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**Consolidate stakeholder feedback**

**Present updated fleet analysis and draft avoidable cost ranges**

# Contact Information

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