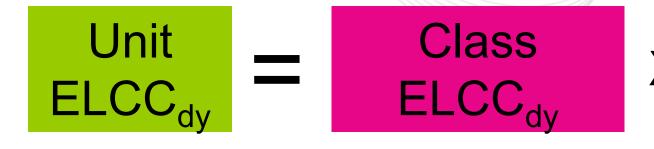


ELCC Timing Considerations

Andrew Levitt
Applied Innovation
May 20, 2020
PJM Capacity Capability Senior
Task Force





Unit performance adjustment_{dv}

Planned resources

Existing resources



Class ELCC Timing for New Resources and Uprates

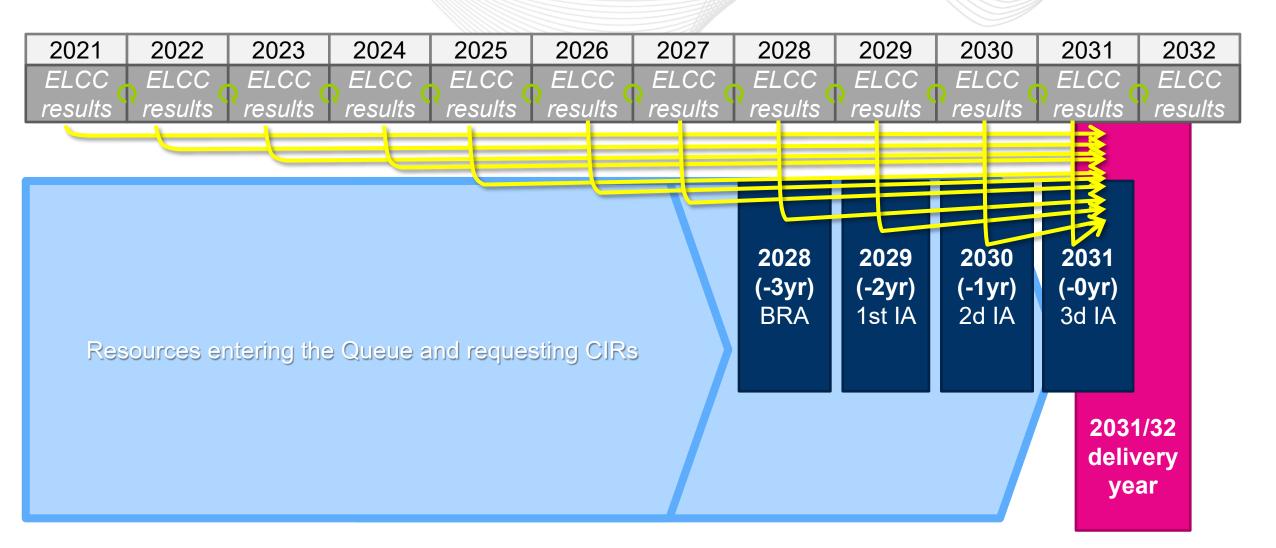


Planned resources

Existing resources



Potential Timeline: Class ELCC for Planned Resources





Potential Timeline: Class ELCC for Planned Resources

2021 ELCC results Official Class ELCC updated each year for the next 10 years using vendor forecast of resource mix.

Class ELCC analysis results are rounded into bands (see next slide)→official accreditation may change less often than annually.

2027 2028 2029 2030 2031 2032 ELCC ELCC ELCC ELCC ELCC ELCC results results results results results results

2028 2029 2030 (-3yr) (-2yr) (-1yr) BRA 1st IA 2d IA

Sale in any auction is capped using most recent class

Deficiency charges if decline in most recent class ELCC pushes unit ELCC below RPM MW

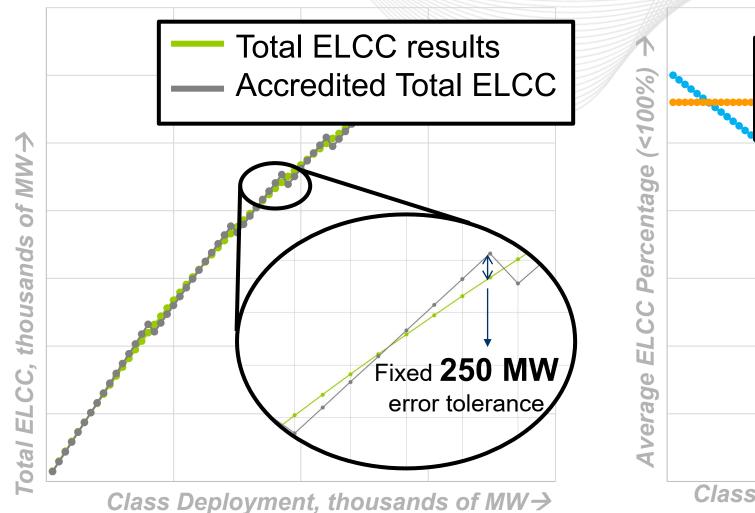
> 2031/32 delivery year

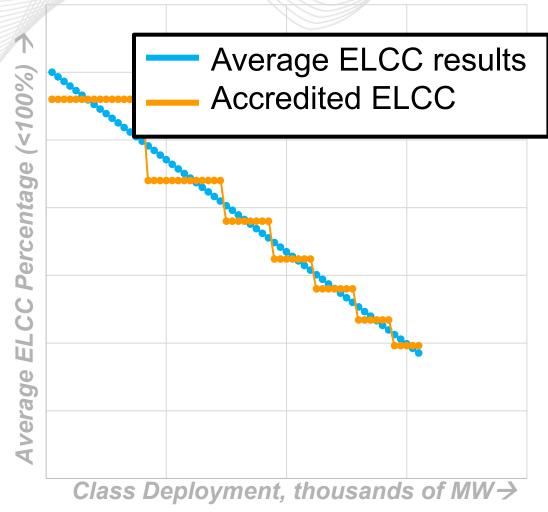
Resources entering the Queue and requesting CIRs

For capability values used in the Queue, the most recent value of ELCC for the applicable delivery year (e.g., projected year in service) is used.



Illustration of Banding Concept (NOT ACTUAL RESULTS)







Class ELCC Timing for Existing Resources



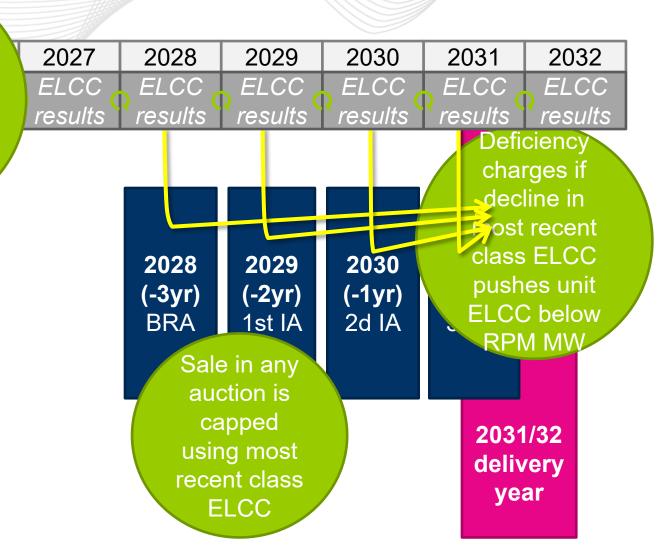
Planned resources

Existing resources



Potential Timeline: Class ELCC for Existing Resources

2021 ELCC results Official Class ELCC updated each year for the next 10 years using vendor forecast of resource mix.
Class ELCC analysis results are rounded into bands (see next slide)→official accreditation may change less often than annually.



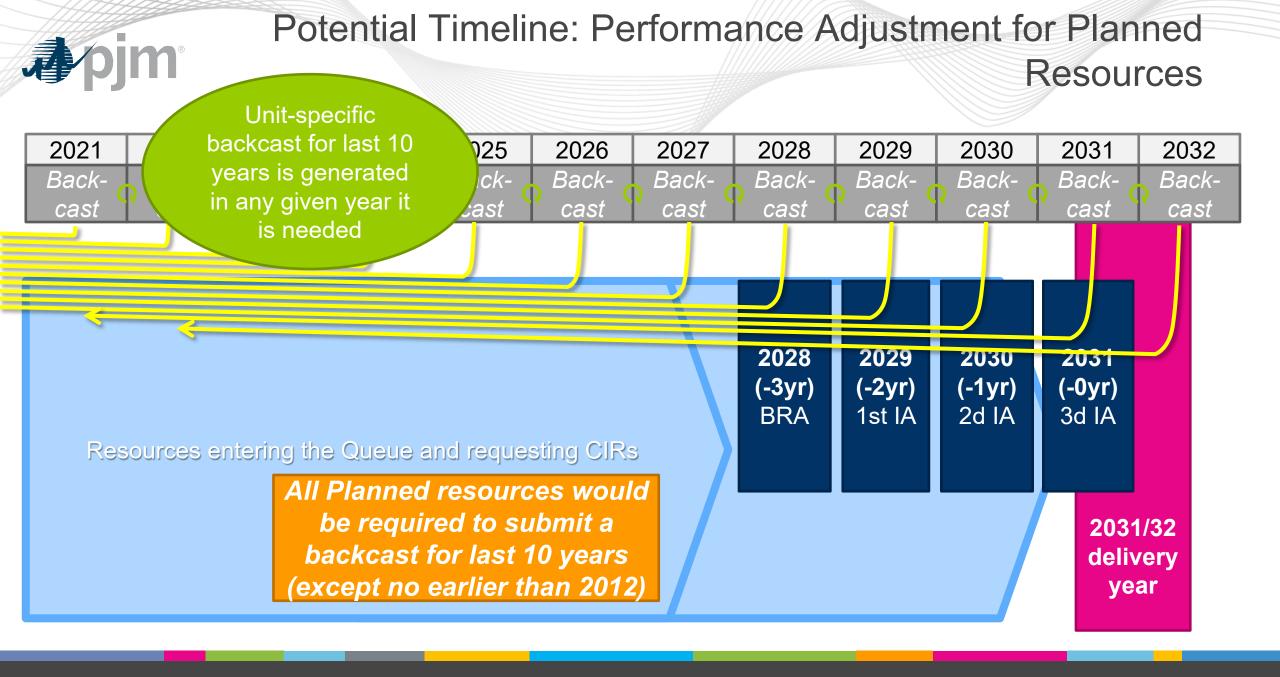


Performance ELCC Timing for New Resources and Uprates



Planned resources

Existing resources



pim

Potential Timeline: Performance Adjustment for Planned Resources

2021 Backcast Unit-specific backcast for last 10 years is generated in any given year it is needed

725	2026	2027	2028 2029	2030	2031	2032
ck-	Back-	Back-	backgoot	Back-	Back-	Back-
<i>c</i> ast	cast	cast	backcast \ *not*	cast	cast	cast

All Planned resources would be required to submit a backcast for last 10 years (except no earlier than 2012)

Resources entering the Queue and requesting CIRs

An ELCC performance adjustment based on backcast is developed when a capability value is needed in the Queue

required when selling into an auction 2028 2029 2030 (-2yr) (-3yr) (-1yr) 1st IA BRA 2d IA Sale in any auction is capped using most recent available performance adjustment

2031
(-0yr)
3r' Backcast
updated
prior to 3d
IA &
entering
service,
deficiency
charges if
unit ELCC
< RPM MW₀₂₀



Performance ELCC Timing for **Existing** Resources





Class **ELCCdy**



Unit performance adjustment_{dv}

Planned resources

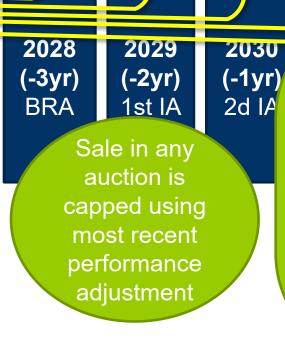
Existing resources

pjm

Potential Timeline: Performance Adjustment for Existing Resources

2021 2022 2023 201 Back- Back- Back- Back- Back- Cast Cast Cast Unit-specific
performance
adjustment (incl.
backcast if needed)
is generated each
year

2028	2029	2030	2031	2032
Actual	Actual	Actual	Actual	Actual
data	data	data	data	data



Final
performance
adjustment
is updated
prior to third
IA,
deficiency
charges if
unit ELCC
< RPM MW