

Overview Of Package D, New Package H & New Package I

Jonathan Kern
Special PC – CIRS for ELCC
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- Based on stakeholder feedback and internal discussions, PJM is introducing two additional packages
- New Package H is the same as Package D except proposed changes are introduced in Transition Cycle 1 instead of Transition Cycle 2
- New Package I is the same as Package E except
 - CIRs in ELCC methodology and accredited UCAP calculation will not commence until FERC approval of revised PJM governing documents
 - A transitional system capability study will be performed prior to each BRA during the transition period for eligible wind and solar resources
- This slide deck provides an overview of the design components associated Package D, new Package H and new Package I

- Same for Packages D, H and I
 - 1 MW CIR = 1 MW summer, single contingency generator deliverability
 - Variable Resources can request CIRs up to the expected 95th percentile hourly summer net output of the resource between hour ending 11AM and 10PM

- Same for Packages D, H and I
 - Variable Resources: CIRs are maximum of last 3 summers' retention metric, where the retention metric is the 95th percentile hourly summer net output of the resource between hour ending 11AM and 10PM
 - Limited Duration Resources: CIRs are maximum of average output across X consecutive hours over last 3 summers, where "X" is the duration of the class between hour ending 11AM and 10PM

- Same for Packages D, H and I
 - Variable Resources: Hourly output used in ELCC model and in unit-specific Performance Adjustment cannot exceed CIR value
 - Limited Duration Resources: Effective Nameplate Capacity cannot exceed CIR value
 - Dispatchable Hydro Resources: MaxMW parameter cannot exceed CIR value

Key Concepts From Design Component 4: Implementation/Effective Date

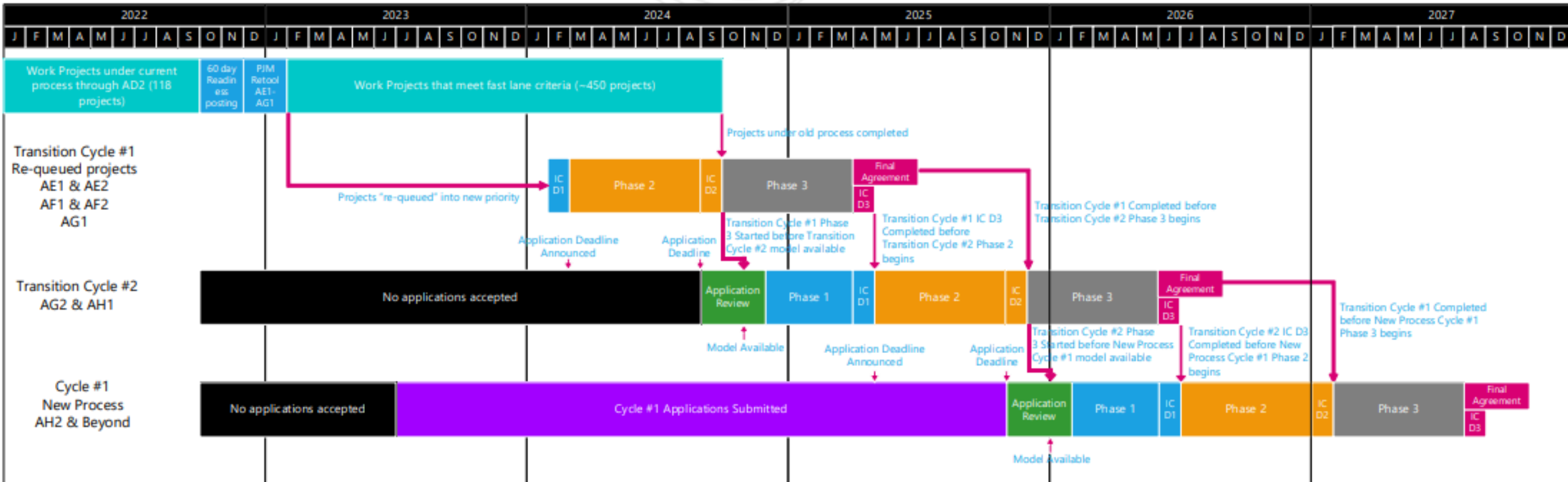
- Common implementation considerations for Packages D, H and I
 - Design Component 1 (CIR requests) will begin with Cycle 1 (AH2 queue)
 - Design Component 2 (CIR retention) will begin in 2023
 - Design Component 3 (CIR in ELCC) will begin with the 2025/26 BRA
- Other implementation considerations for Packages D, H and I
 - Package D: Higher CIRs for wind and solar ISA holders as of proposal effective date and will be applied starting with 2023 RTEP and Transition Cycle 2 (AG2/AH1 queue)
 - Package H: Higher CIRs for wind and solar ISA holders as of proposal effective date and will be applied starting with 2023 RTEP and Transition Cycle 1 (AE1/AG1 queue)
 - Package I: No higher CIRs for wind and solar ISA holders

- Higher CIRs for wind and solar ISA holders
 - Packages D & H: Wind and solar units with an ISA as of effective date of proposal will be transitioned to higher default CIRs and load will pay for any required baseline upgrades
 - Higher default CIRs are defined by resource type and region
 - P80% for solar and offshore wind
 - P90% for onshore wind
 - Package I: Wind and solar units with an ISA as of effective date of proposal will NOT be transitioned to higher default CIRs and will need to get back into the queue to request higher CIRs
- Higher CIRs for wind and solar non-ISA holders (all packages):
Remaining wind and solar units in the Fast Track, Transition Cycle 1 and Transition Cycle 2 will not be transitioned to higher CIRs and will also need to get back into the queue to request higher CIRs if desired

- Transition period: This is the period from when the proposal is made effective, e.g. 1/1/2023, to when upgrades can be put in service for CIR uprate requests
- CIR uprates for wind and solar ISA holders (Packages D and H only) will be processed in the 2023 RTEP and some small number of MW may be undeliverable for a period of time until baseline upgrades can be constructed
- CIR uprates for non-ISA units (Packages D, H and I) will not be processed until Cycle 1
 - Expected earliest a CIR uprate request SISA can be executed in Cycle 1 would be mid-2026
 - Earliest BRA that such a CIR uprate would be eligible to participate in RPM would be 2030/31 DY

- Transitional RPM Treatment (Packages D, H & I)
 - Wind and solar resources eligible to participate in a BRA hat have requested higher CIRs in accordance with Design Component 1 within 90 days of the effective date of this proposal ("Transitional Resources") may submit to PJM a request for a transitional system capability study prior to each BRA (2025/26 through 2029/30 BRAs) during the transition period to determine whether the transmission system is capable of delivering outputs above their CIRs
 - Transitional Resources will have their hourly output capped in the ELCC study and accreditation process at the resource's summer deliverability level determined during transitional system capability study, not to exceed the default CIR levels for wind and solar units under this proposal

Appendix



- RPM participation for CIR updates
 - Greater than 20 MW require a Facility Study Agreement
 - Less than 20 MW require a System Impact Study Agreement

RPM Schedule

BRA	Date
23/24	22-Jun
24/25	22-Dec
25/26	23-Jun
26/27	23-Nov
27/28	24-May
28/29	25-May
29/30	26-May
30/31	27-May

Facilitator:

Brian Chmielewski,
Brian.Chmielewski@pjm.com

Secretary:

Michele Greening,
Michele.Greening@pjm.com

Presenter:

Jonathan Kern,
Jonathan.Kern@pjm.com

**Overview Of Package D, New Package H
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Member Hotline

(610) 666-8980

(866) 400-8980

custsvc@pjm.com

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