

2023-2024 Stage 1A ARR 10 Year Analysis Update

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Transmission Expansion Advisory Committee

- Purpose:
Ensure the transmission system is capable to support the simultaneous feasibility of Stage 1A ARRAs upto 60% of Network Service Peak Load inclusive of the projected ten-year load growth

- Challenges
 - Expected DOM load growth in the next 10 years
- Results:
 - 2023/2024 Stage 1A 10-Year ARR analysis identified violations in the Mid-Atlantic Region and DOM
 - Upgrades are anticipated under the current RTEP process



Results of 2023/24 Stage 1A ARR 10-year Analysis

Facility Name	Facility Type	First Year of Violation	Upgrade expected to fix infeasibility	Expected in-service date
COLORA 230 KV COL-CON2 I/o L230.Conowingo-Nottingham	LN	1	b3729 To increase the maximum operating temperature of DPL circuit 22088	2027
CONASTON500 KV CNS-PEA	LN	5	b3737.50 Constructing a new Peach Bottom-North Delta 500 kV line (0.3miles)	2029
LENOX 115 KV LEN-NME I/o E.Towanda-Hillside 230 kV	LN	1	b3672 Upgrades East Towanda - North Meshoppen 115 kV line	2026
LINDEN 230 KV LIN-MINR	LN	1	b3737.38 Linden subproject	2027
DOM constraints (due to DOM load growth)		5	*	

- ❖ The Transmission Planning group is currently studying this area under the 2022 RTEP Reliability Window 3 for DOM load growth.
- ❖ This study is based on the 2023-2024 annual ARR allocation, future upgrades and future generation deactivation (i.e. Homer City, Brandon Shores) are not included in the 2023-2024 Stage 1A ARR 10-year Analysis. Generation deactivation will be reflected in the effective retirement year of the Stage 1A ARR 10-year analysis.

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- V1 – 09/27/2023 – Original slides posted



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