

Electric Vehicles

Load Analysis Subcommittee
November 9, 2021

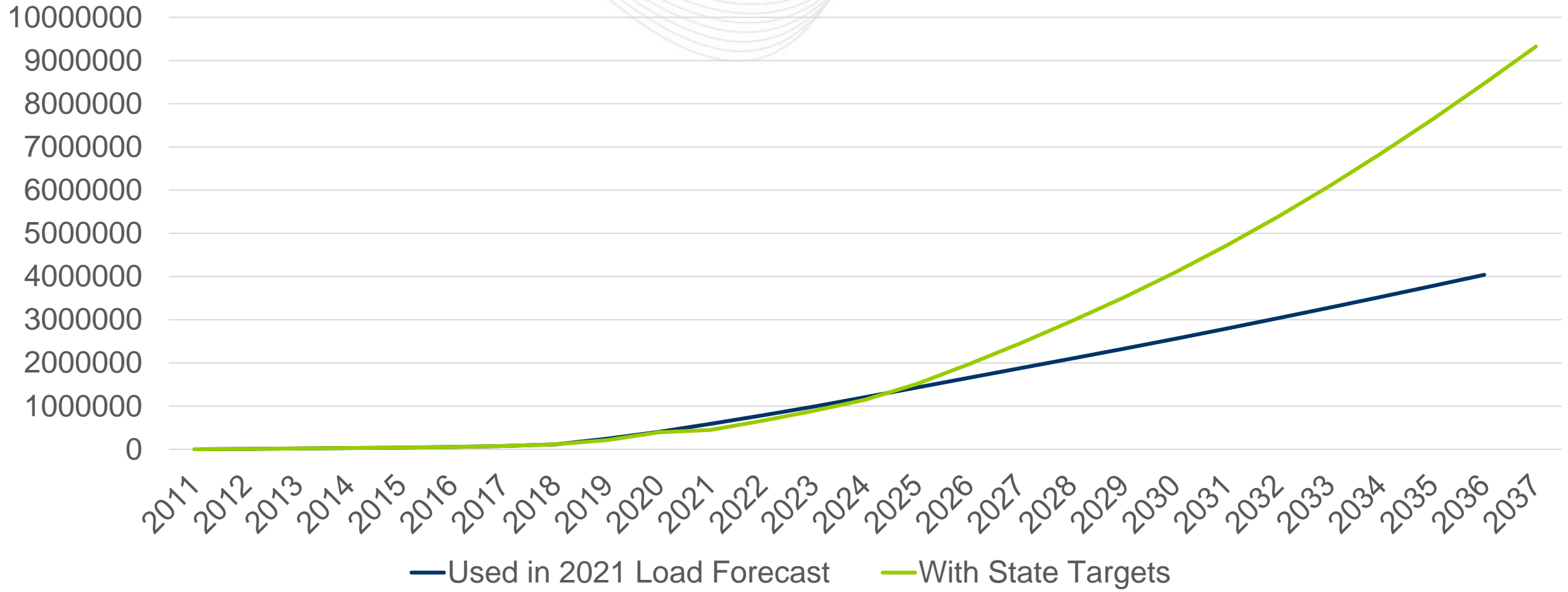
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- At October 4th LAS, presentation was given to prompt conversation on Electric Vehicles
 - We felt that our existing EV forecast was too low
 - Feedback from stakeholders
 - Some agreement
 - Some pointing to not focusing on the White House but instead focus on the states
- Slides that follow are meant to prompt additional conversation in moving towards a consensus on the EV forecast to be included in the 2022 Load Forecast

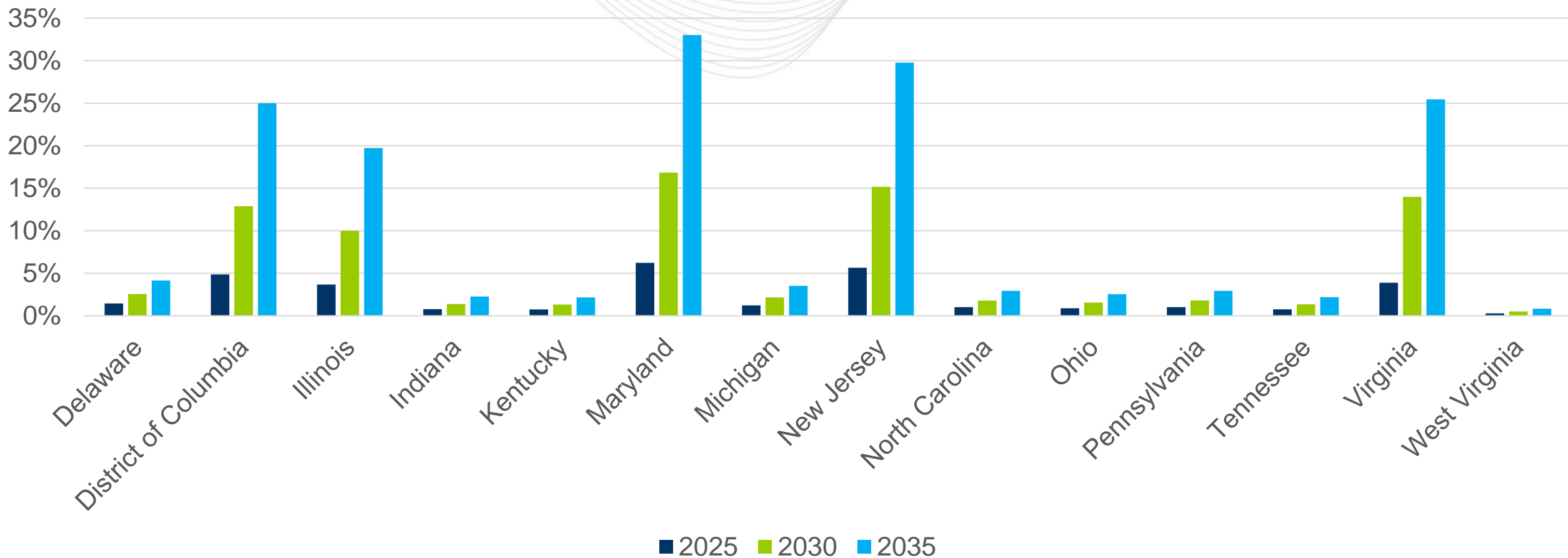
District of Columbia	25% of registrations by 2035
Illinois	1 Million EVs by 2030
Maryland	300k EVs by 2025
New Jersey	2 million EVs by 2035; 85% of sales in 2040
Virginia	8% of sales in 2024; 22% in 2025

- In states with targets, the target drives the forecast
- States without targets are pushed forward based on EIA 2021 AEO
 - Assumption of 4% of vehicle sales being EVs by 2030 and 8% by 2040

PJM Total Number of EVs

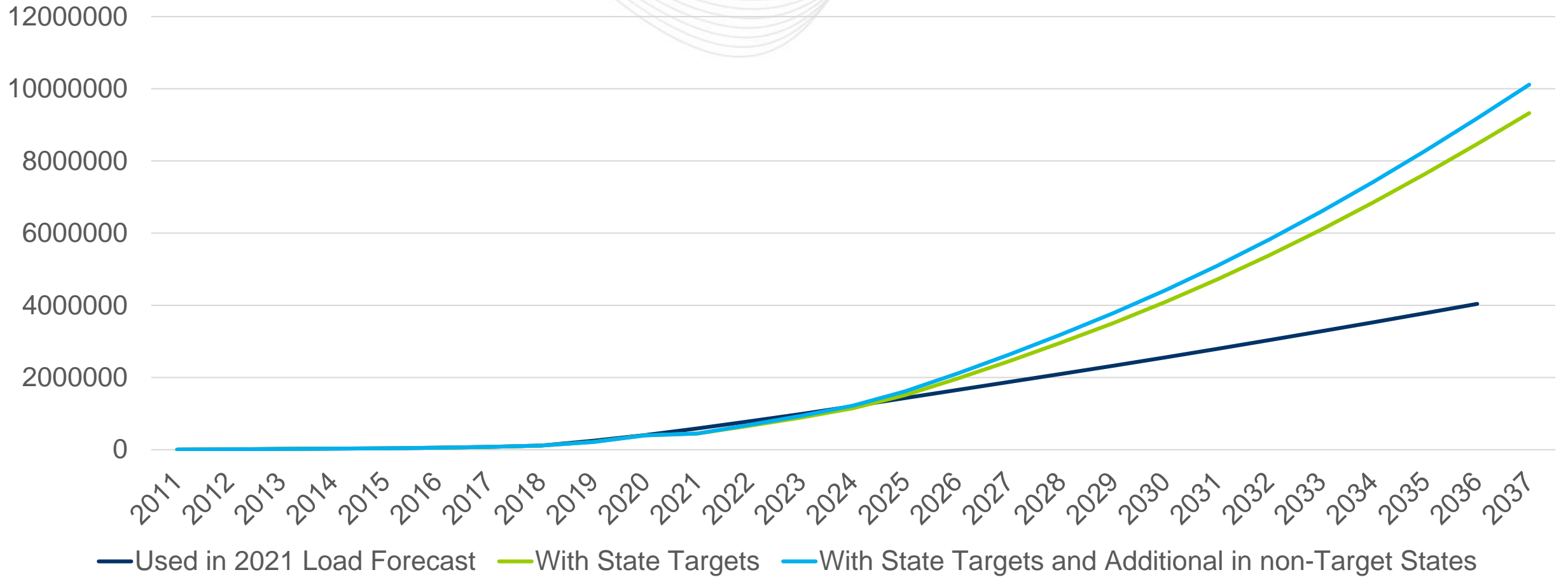


Share of Total Vehicle Stock that are EVs

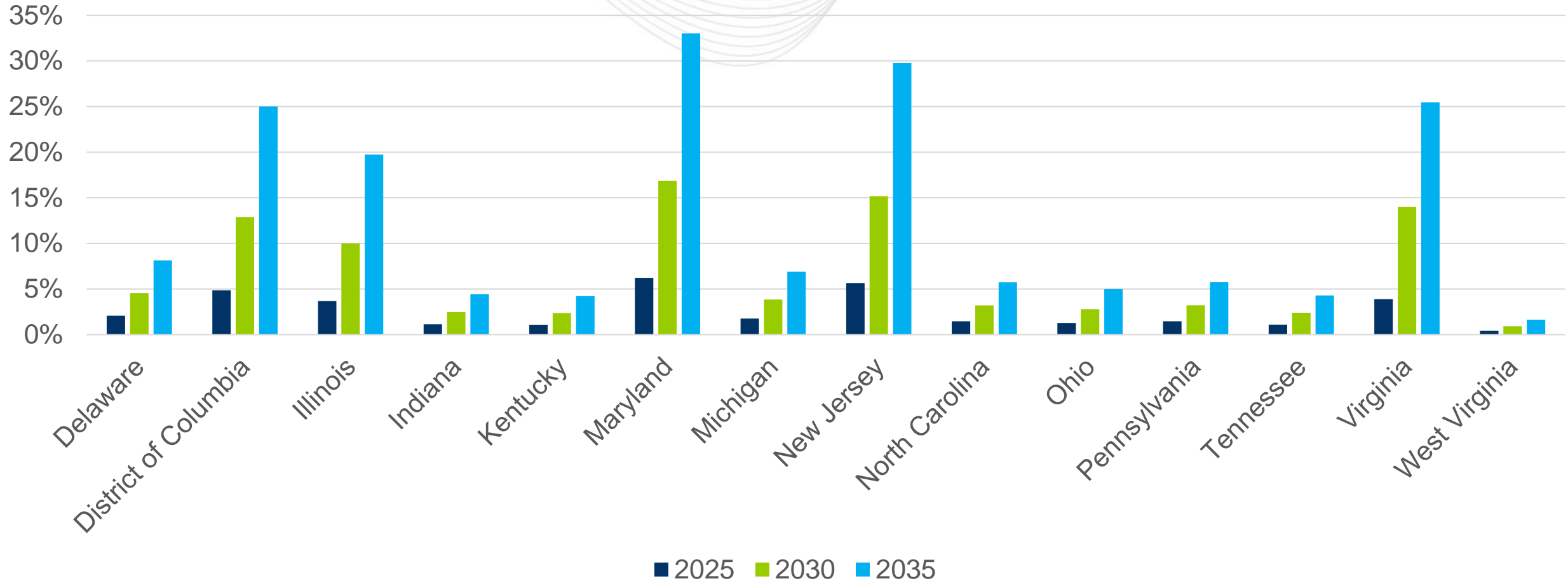


- Are the non-goal/non-target states reasonable?
- Should a more aggressive path be taken?
 - Following slides show a sensitivity if we doubled the EV share at the end of the forecast horizon for non-target states.

PJM Total Number of EVs



Share of Total Vehicle Stock that are EVs



- Using state targets seems like a positive step in getting a more reasonable path for future EV penetration.
- Is linking with 2021 EIA AEO for non-target states reasonable or should we be more aggressive?
- PJM welcomes any feedback on the EV forecast or the charging assumptions.

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Electric Vehicles



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