

Plug-In Vehicle Forecast

John Reynolds Resource Adequacy Planning

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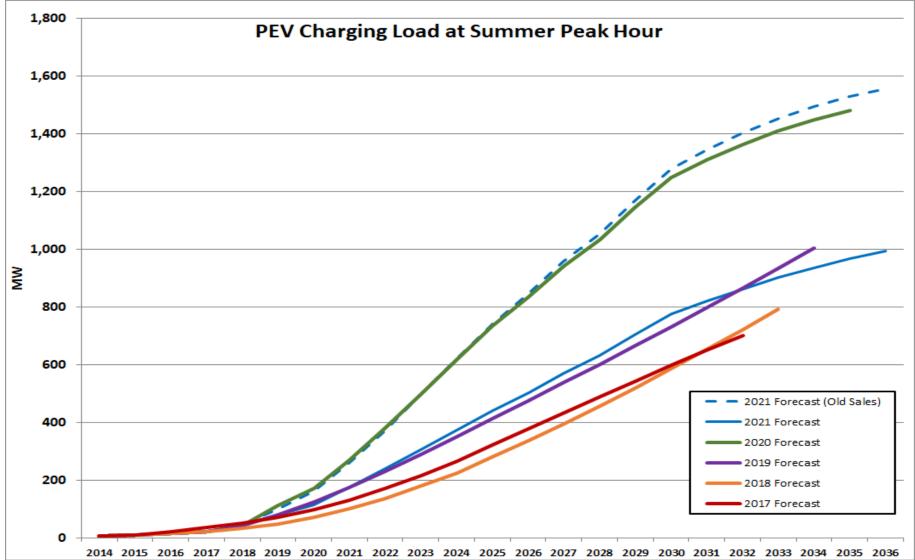


Derive an estimate of light duty PEV stock from:

- Registered PEVs by state Auto Alliance
- Forecasted PEV sales by census division EIA Annual Energy Outlook
- State share of census division registrations PJM calculation
- Vehicle retirement rate Jacobsen, Mark R., and Arthur A. van Benthem. 2015. "Vehicle Scrappage and Gasoline Policy." American Economic Review, 105 (3): 1312-38.
- Charging:
 - Prevalence of Level 1 (1.4 kW) trend from 80% to 0% by 2030
 - Prevalence of charging at peak trend from 15% to 5% by 2030
 - Annual charging 4,500 kWh

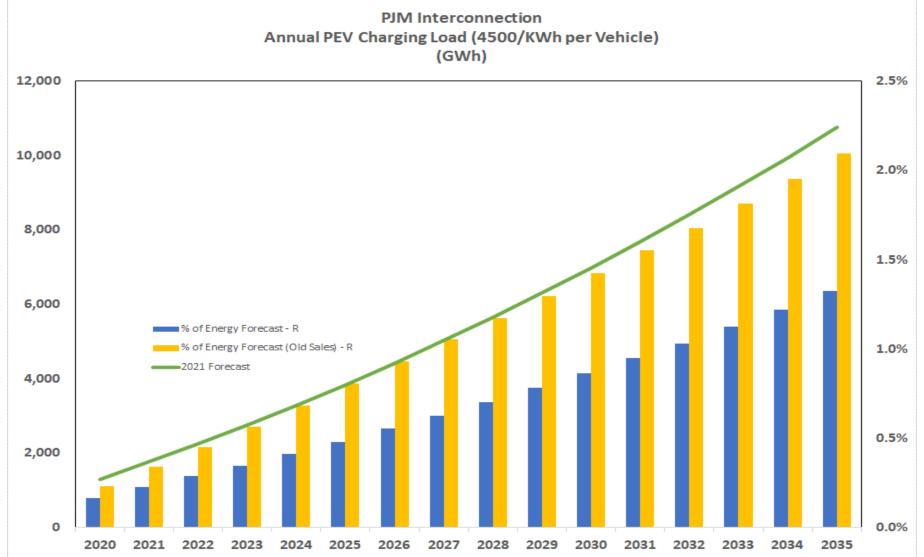








Forecast – Energy





 Significant drop from previous forecast is tied to the removal of California's ZEV Mandate from the model. The ZEV mandate required manufacturers to produce a specified number of electric and plug-in hybrids. Ten other States had also adopted the mandate.

 PJM is considering using PEV sales forecast from 2019 AEO (noted as Old Sales) if there is significant likelihood the ZEV Mandate will be restored.



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