



Item 15: Assembly Bill 2127 Second Electric Vehicle Charging Infrastructure Assessment

February 14, 2024 Business Meeting

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Fuels and Transportation Division



Goals used for the AB 2127 Assessment



Source: CEC

- 2035: 100% ZEV light-duty sales



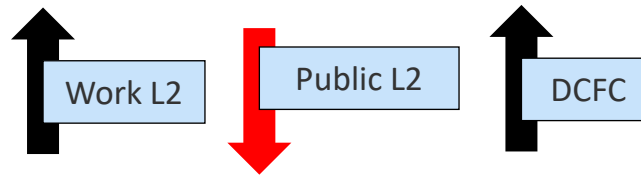
Source: CEC

- 2035: 100% ZEV operations for drayage trucks
- 2035: 100% ZEV off-road vehicles and equipment, where feasible
- 2045: 100% ZEV operations for medium- and heavy-duty vehicles, where feasible.

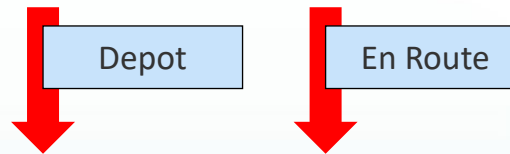


Changes for the Second AB 2127 Assessment

- Updated modeling for Light Duty Vehicles



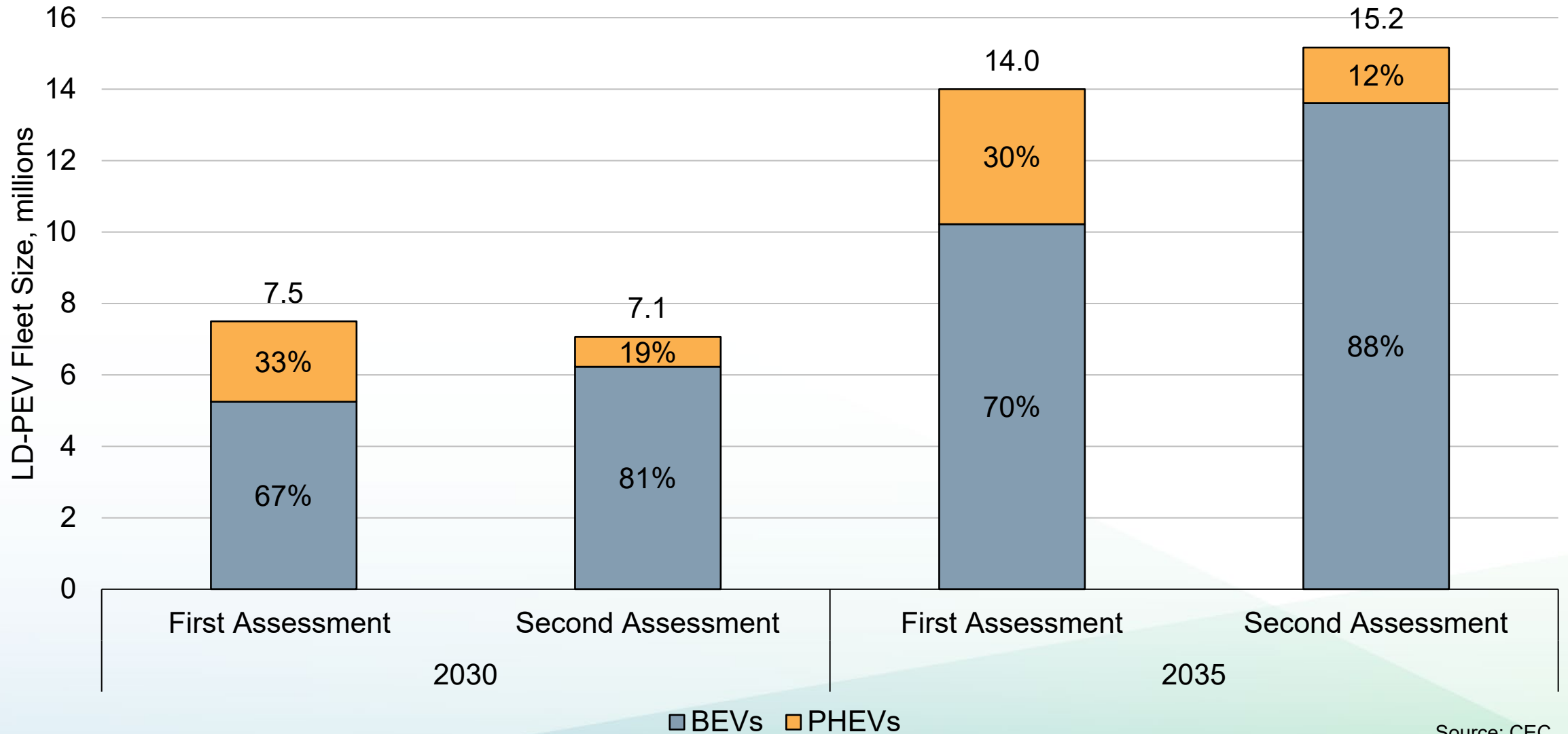
- Discussion of Gas Station Model alternative future scenario
- Updated modeling for Medium- and Heavy-Duty vehicles



- Updated discussion of grid topics
- New chapter on Labor and Workforce Development



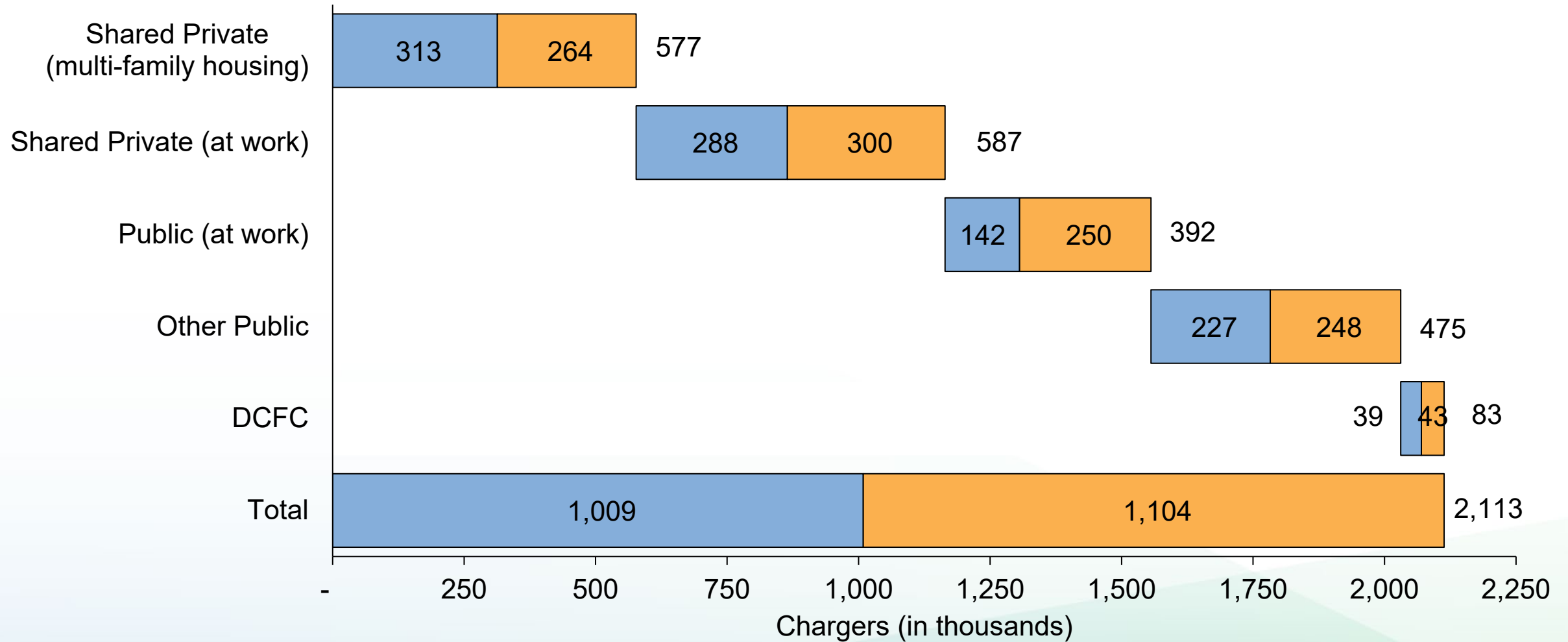
Light-Duty Vehicle Scenario



Source: CEC



Light-Duty Vehicle Charging Needs

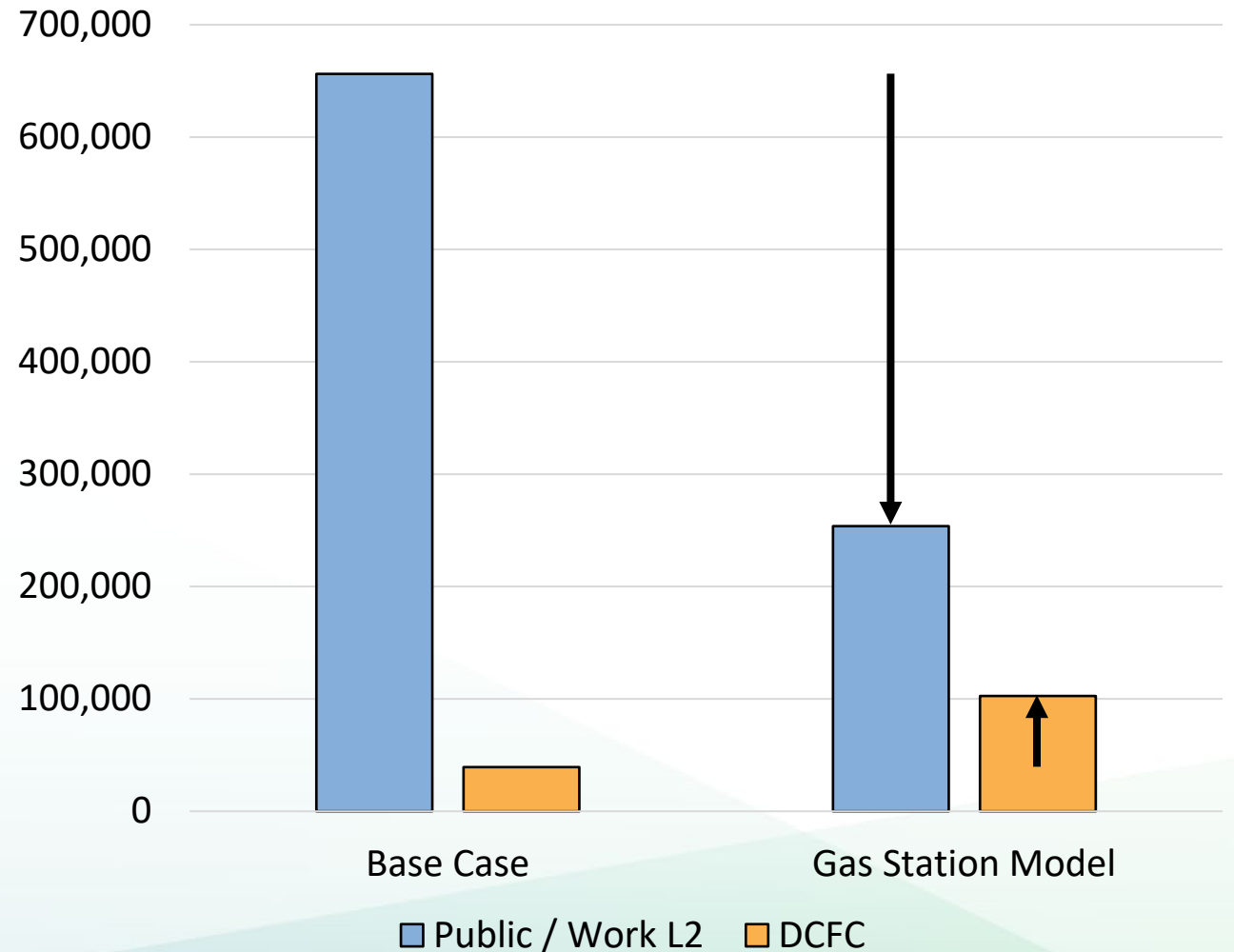


■ Chargers needed for 7.1 million PEVs in 2030 ■ Additional chargers needed for 15.2 million PEVs in 2035



Gas Station Model Scenario

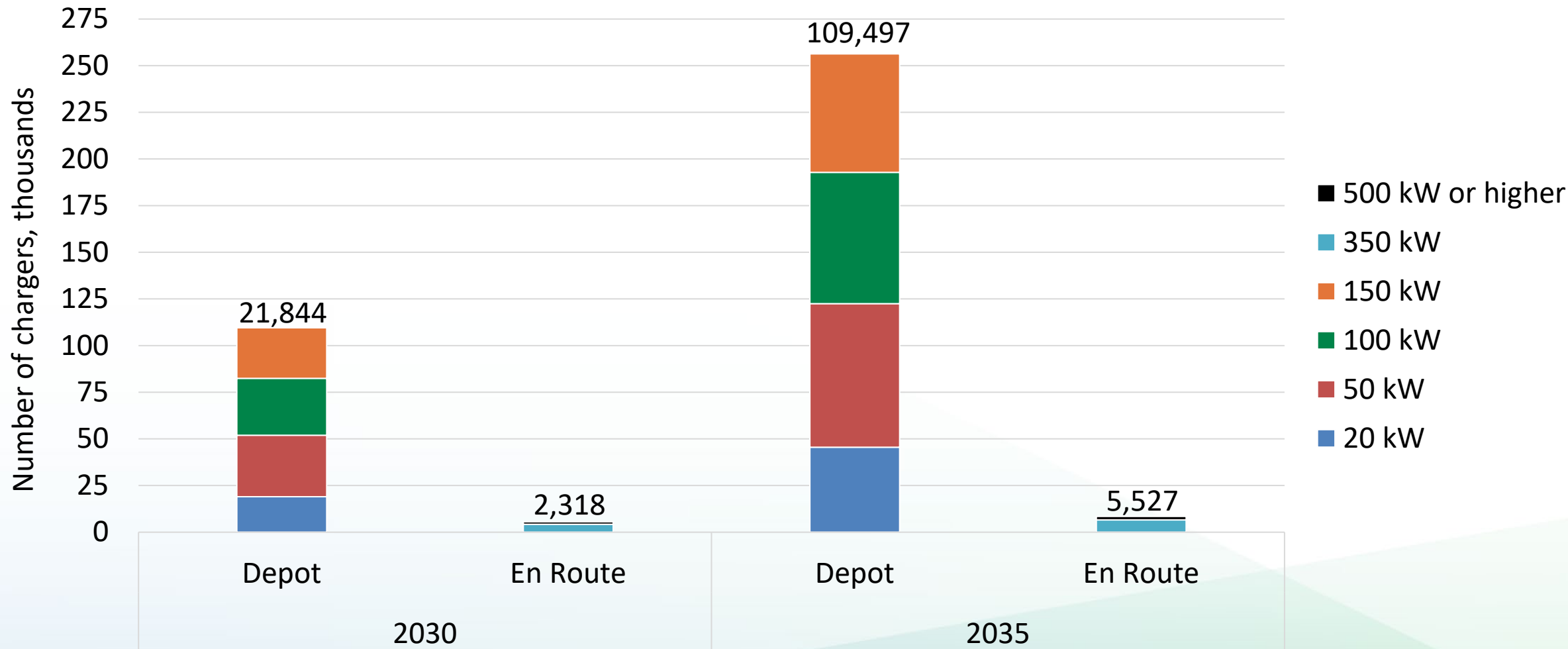
Expanded DCFC installation could substitute for some types of L2 charging



Source: CEC



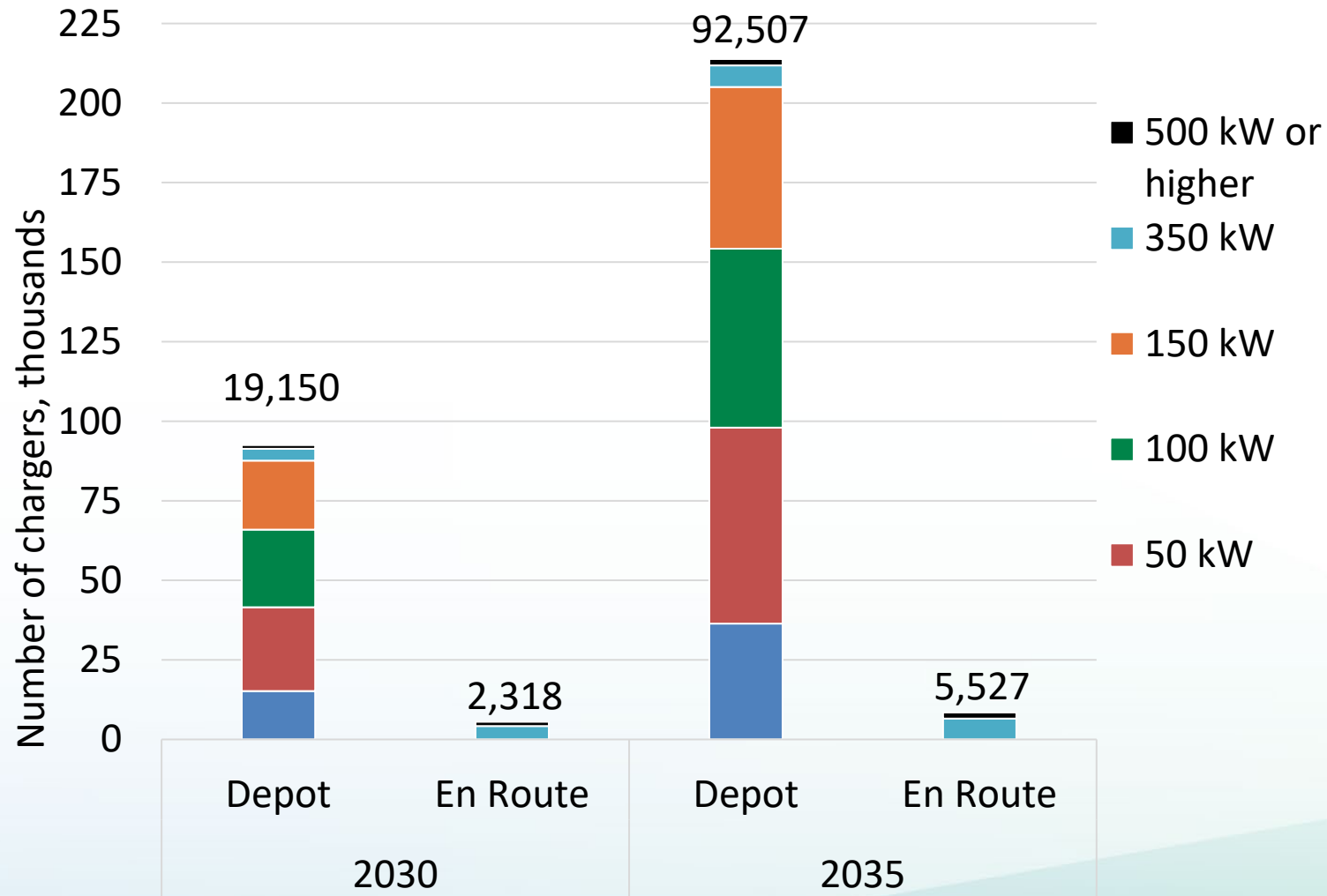
Medium-/Heavy-Duty Charging Needs



Source: CEC



High-Speed Depot Alternative Future Scenario



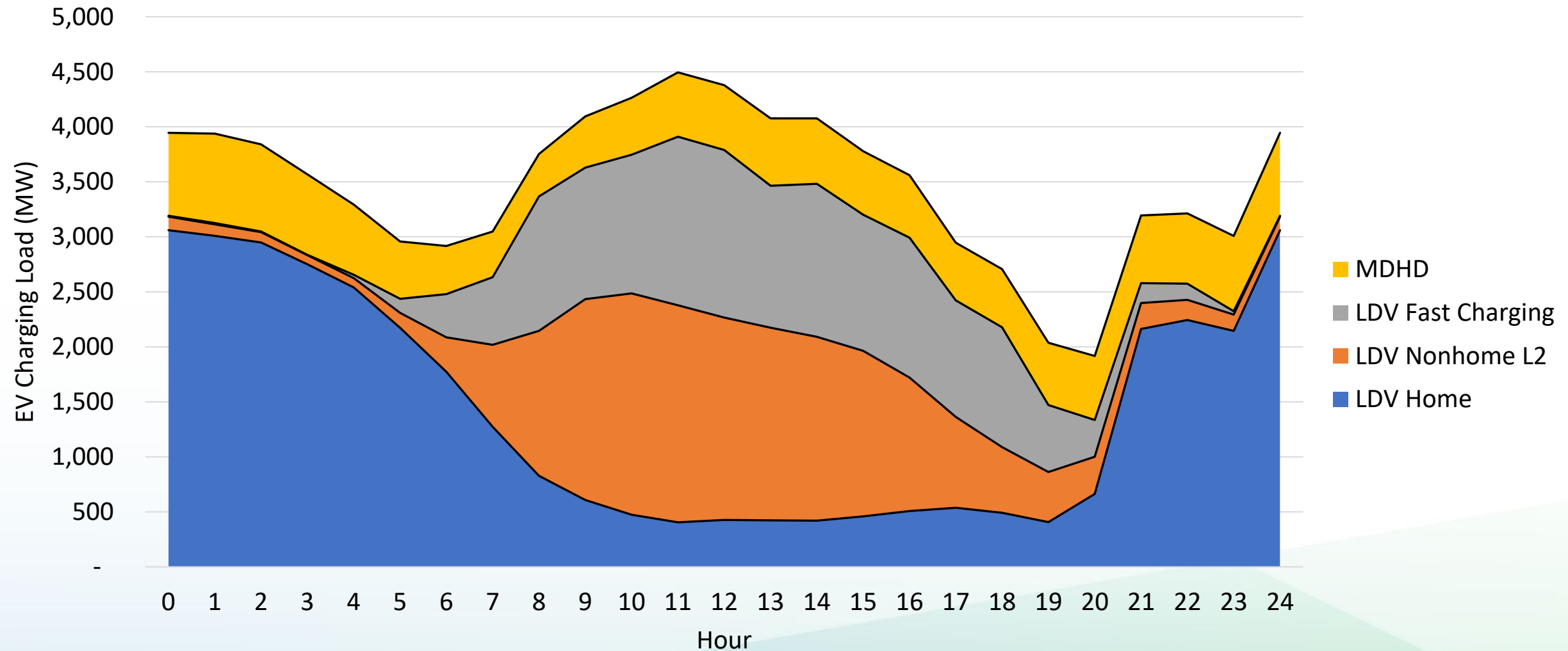
Source: CEC



Source: <https://nacfe.org/news/62779/>



EV Charging Load



Source: CEC



Recommendation

- Approve AB 2127 Second Assessment Revised Staff Report
- Direct final publication as a Commission Report
- Every 2 years: Update charging infrastructure reports