

**DOCKETED**

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<b>Project Title:</b>	Business Meeting Agendas, Transcripts, Minutes, and Public Comments
<b>TN #:</b>	248515
<b>Document Title:</b>	Presentation - Item 5 - Zero-Emission Vehicle Infrastructure Plan (ZIP)
<b>Description:</b>	January 25 Business Meeting Presentation for Item 5
<b>Filer:</b>	Thanh Lopez
<b>Organization:</b>	California Energy Commission
<b>Submitter Role:</b>	Commission Staff
<b>Submission Date:</b>	1/24/2023 3:17:19 PM
<b>Docketed Date:</b>	1/24/2023



# Item 5: Zero-Emission Vehicle Infrastructure Plan (ZIP)

January 25, 2023 Business Meeting

Thanh Lopez, Air Pollution Specialist  
Fuels and Transportation Division  
Light Duty Electric Vehicle Infrastructure and Analysis Branch

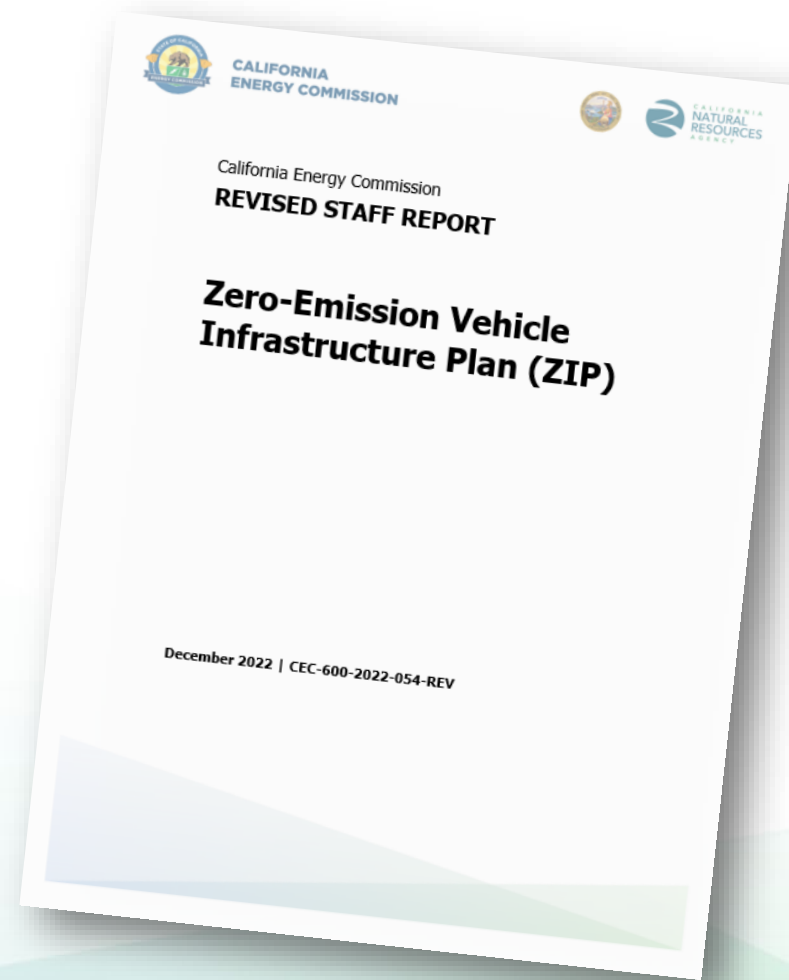


# Benefits to Californians: Integrated State Strategy





# State Agencies Play a Crucial Role





# CA's Electric Grid Will Adapt to ZEV Load

- New electric load from EVs will increase over next decade
- Ongoing analysis, planning, and investments will ensure grid is prepared
  - Investing in new resources and strategies



Source: CEC



# Ramping Up Efforts to Meet Scale of Challenge

- Updating modeling results
- Streamlining Permitting
- Improving Interconnection Times
- Continuing to update building codes
- Ensuring infrastructure reliability

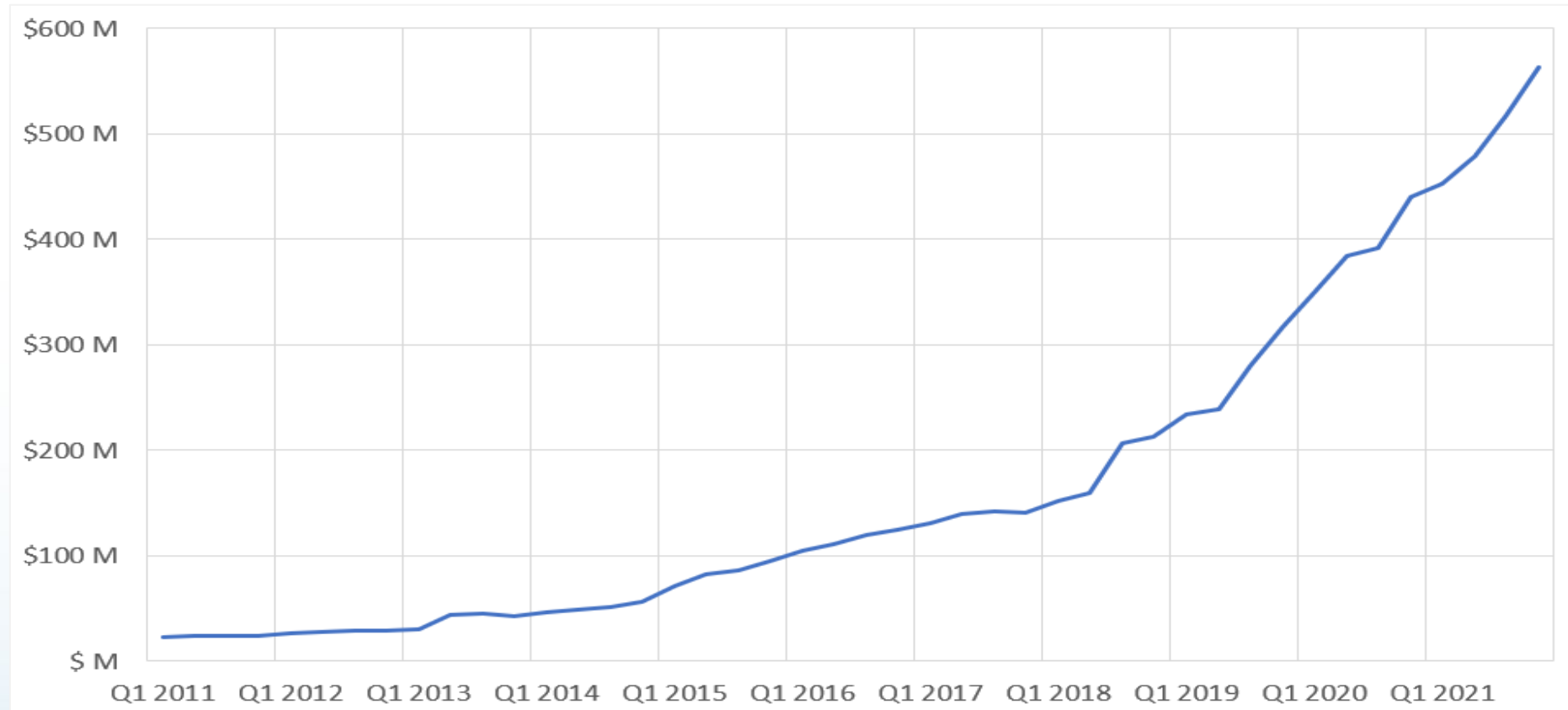


Source: California Air Resources Board



# Need Continued Growth in Private Funding

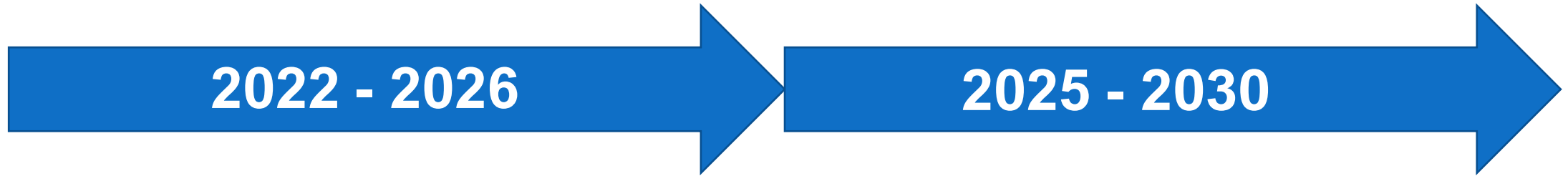
## Cumulative Private Investments in Light-Duty Plug-in Electric Vehicle Charging (2011-2021)



Source: GO-Biz EV Infrastructure Investment Model and CEC Staff Analysis

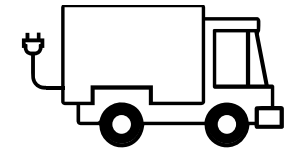
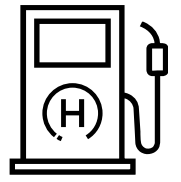
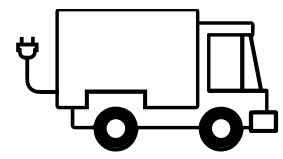
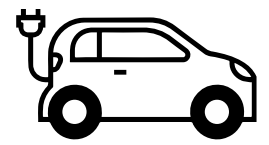


# Historic Investments in Infrastructure



2022 - 2026

2025 - 2030



**\$900 M\***

**\$1.7 B\***

**\$ 90 M\***

**\$300 M**

**\$700 M**

Light-Duty  
EV Charging  
Infrastructure

Medium- and  
Heavy-Duty  
ZEV  
Infrastructure

Hydrogen  
Refueling  
Infrastructure

Light-Duty  
EV Charging  
Infrastructure

Medium- and  
Heavy-Duty  
ZEV  
Infrastructure

+

**\$384 M**  
NEVI

\*Subject to future Budget Act appropriations.  
Does not reflect reductions for CEC administrative expenses.





# Ongoing Role for Public Funding in Accelerating Adoption and Addressing Equity

- Ensuring investments benefit those in low-income and disadvantaged communities
- Rapidly transitioning most polluting vehicles to zero emissions
- Maximizing Home Charging
- Ensuring convenient access to fast charging for priority populations
- Funding deployments in harder to reach segments



# Next Steps

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- Continuing coordination across agencies
- Updating ZIP in 2024