CITY OF PHOENIX – TRANSPORTATION ELECTRIFICATION ACTION PLAN

IREC Planning for EVs Meeting

October 10, 2023

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Office of Sustainability

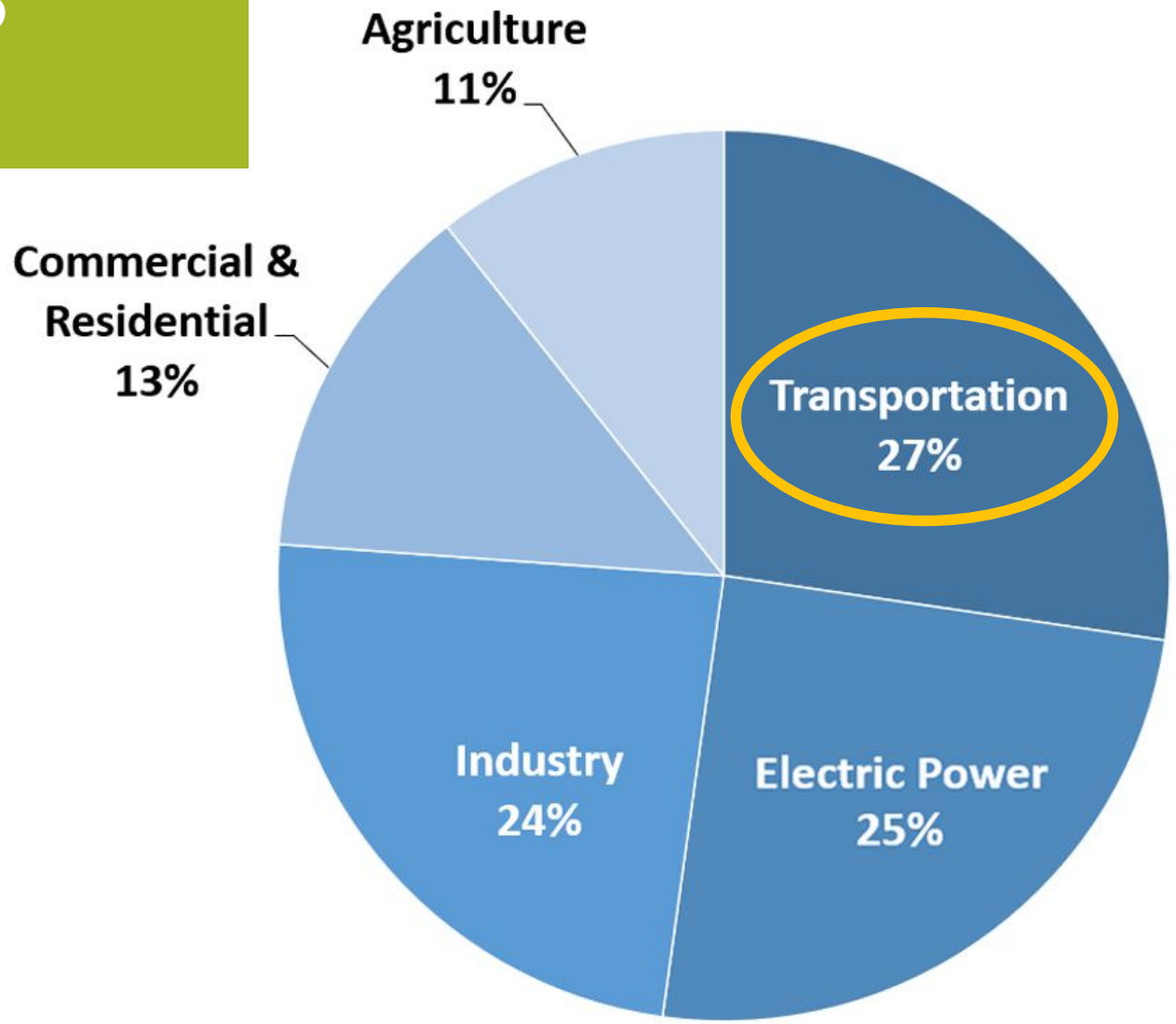
AGENDA

1. Purpose and Need
2. Phoenix Electric Vehicle Growth
3. Transportation Electrification Action Plan (TEAP) Strategy, Vision and Goals

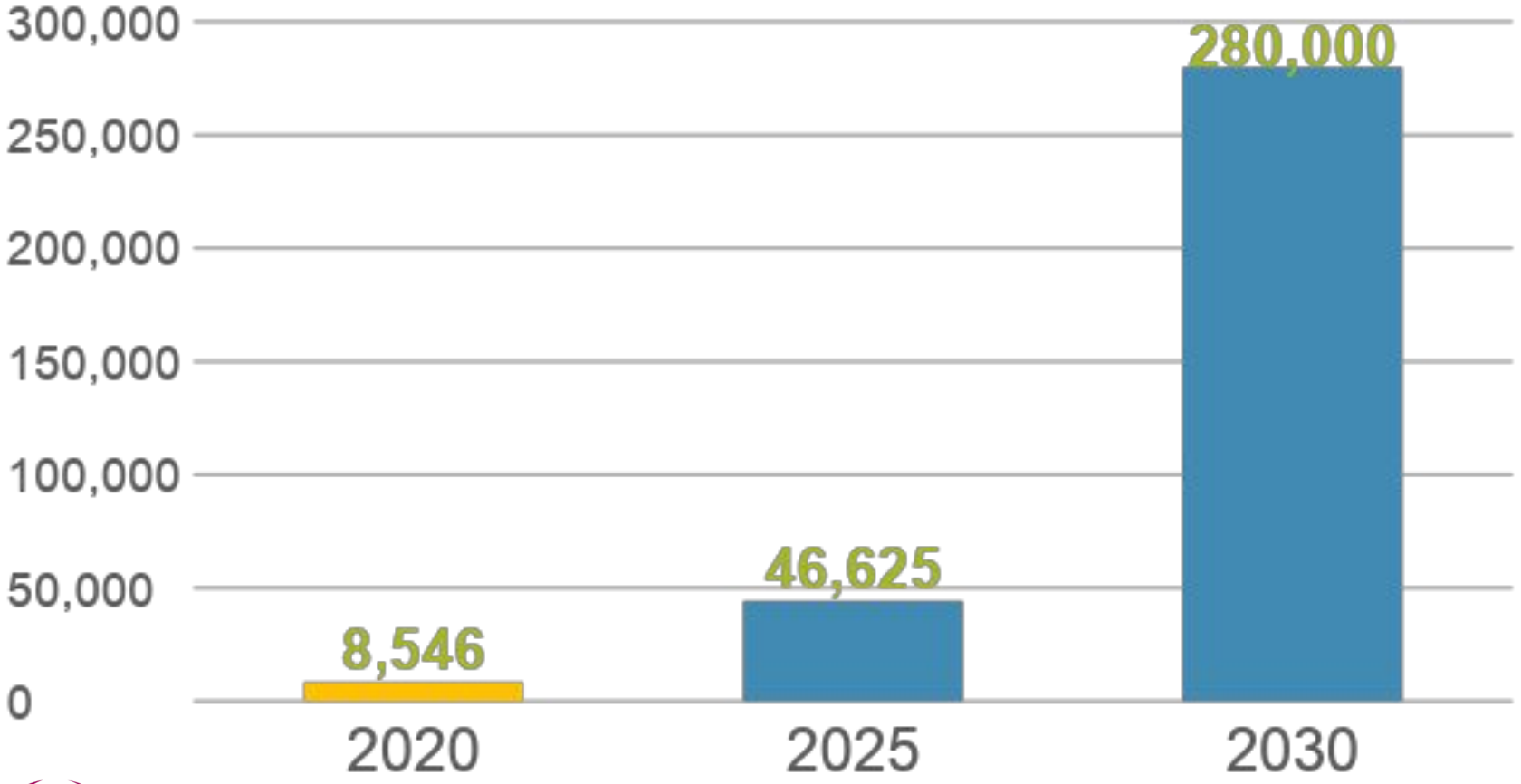
AMERICAN LUNG ASSOCIATION GIVES MARICOPA COUNTY AN F IN THE 2022 STATE OF THE AIR REPORT

SOURCES OF U.S. GREEN HOUSE GAS EMISSIONS IN 2020

Source: U.S. Environmental Protection Agency (2022). Inventory of U.S. Greenhouse Gas Emissions and Sinks: 1990-2020



Phoenix EV Actuals and Forecast



Source: Actual 2020 data – EPRI

EV Chargers need by 2030

- L2 = 3,031
- DCFC = 359

Source: DOE AFDC

TEAP BACKGROUND

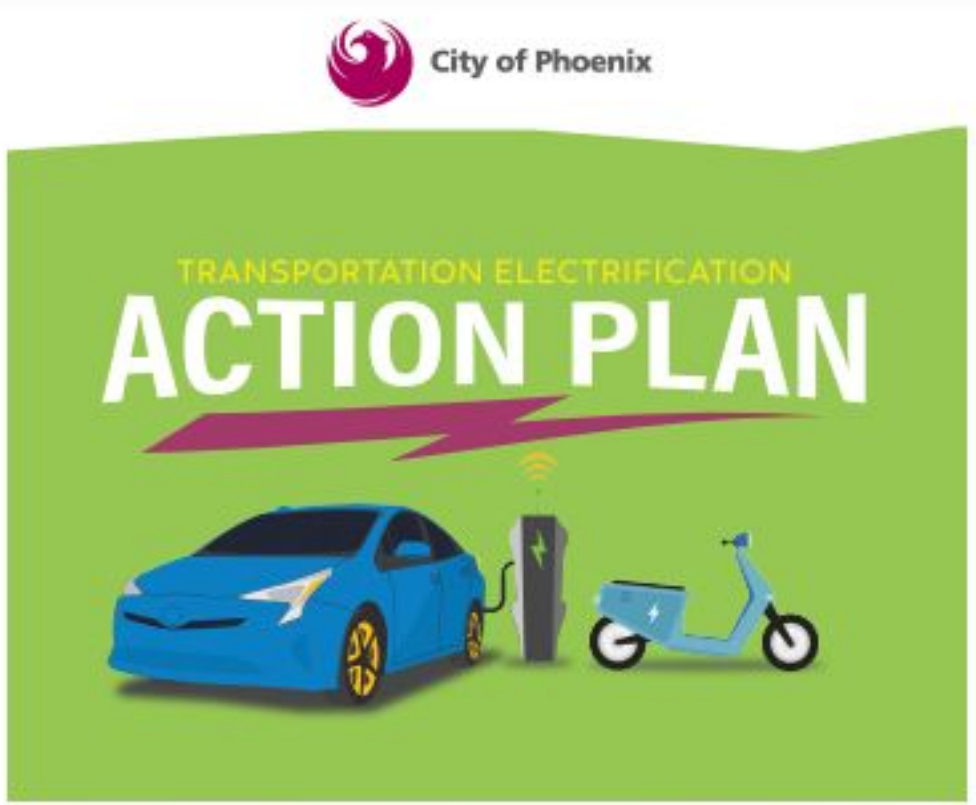
Goal: Establishment of **EV Ad Hoc Committee** to develop ambitious and equitable roadmap on vehicle electrification for the City of Phoenix

Members: 15 Members, utilities, OEMs, ASU, equity focused non profits, community planners and developers, policy advocates

Focus:

- City, Public, Workplace EV Fleet Charging
- City EV Fleet Transitions
- Education and Outreach
- EV Equity

Timeline: June 2021 – June 2022 (approved)



GOALS AND VISION

Proposed CAP Goal: Net-zero GHG Emissions by 2050

Proposed EV Goal: Support 280,000 EVs in the City by 2030

EV OBJECTIVES - 2030

Increase EV Charging Infrastructure for SF/MF

Explore building code updates

Increase EV Chargers on City Property

Target Action: 500 EV Chargers on City property

Replace light duty City ICE fleet with EVs

Target Action: 200 new EV light duty by 2030

Develop Community Outreach and EV Engagement Campaign

Partner with utilities and stakeholders

Implement Equity Principals into EV Policies and Programs

Identify focus areas

TEAP PROGRESS

Increase EV Charging Infrastructure at SF/MF

Streamlined permitting processes, additional steps in zoning amendments

Increase EV Chargers on City Property

287/500 EVSE

Replace light duty City ICE fleet with EVs

22/200 Fleet EVs

Develop Community Outreach and EV Engagement Campaign

Ride-n-Drives, webinars, webpage, social media

Implement Equity Principals into EV Policies and Programs

E-mobility equity map, listening sessions, pilot

E-MOBILITY EQUITY OUTREACH

- E-mobility equity map

- Listening workshops in low-income, underserved community areas to solicit feedback on needs, challenges, opportunities, and e-mobility solutions
  - June – Nov 2023
  - 12 workshops
  - English and Spanish
  - Over 150 attendees
  - Gift cards, food, child care

- Results follow up, report and e-mobility investment pilot

THANK YOU!

QUESTIONS?

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