

# ARIZONA STATEWIDE TRANSPORTATION ELECTRIFICATION PLAN, PHASE II

## Summary of TE Plan Scope



### Study Purpose

This document briefly summarizes the scope of the Phase II Arizona Statewide Transportation Electrification (TE) Plan (Phase II TE Plan) and is intended to clarify what topics will and will not be addressed.

### TE Plan Scope

- + Current TE industry market, technology, and policy developments / trends
  - Market trends and technology outlook
  - Lessons learned from other jurisdictions
- + Market assessment of Arizona transportation landscape
  - Areas of opportunity for electrification
- + Cost benefit analysis (CBA) of five vehicle segments, for adoption between 2020 and 2040
  - Personal light duty vehicles (LDVs), rideshare / taxi LDVs, medium duty delivery vans, school buses and transit buses
  - Three adoption scenarios (base case, base case + managed charging, high adoption)
- + Analysis of air quality impacts from TE, informed by emissions impacts modeled in CBA
  - U.S. EPA Co-Benefits Risk Assessment Tool used to assess health impacts
- + Barriers to TE for different vehicle segments and/or customer types; potential enabling actions
  - Categorization of barrier types (e.g., by vehicle segment); prioritization for addressing
  - Explicit consideration of equity issues in developing an inclusive plan for TE in Arizona
  - Recommendations for utility and non-utility initiatives to overcome these barriers, including opportunities for collaboration
  - Initiatives to be informed through input from stakeholder Working Groups
- + TE Plan and Statewide Goal
  - Final report documenting analytical findings and key actions for different stakeholders
  - Statewide goal established for stakeholders to collaboratively work towards

### Parking Lot: Topics Out of Scope

Not all topics or considerations related to TE in Arizona can be covered through this process. Areas that are relevant for TE that will not be addressed due to time and budget constraints will be considered as a “parking lot” of topics related to TE but outside the scope of this work. Examples of such areas include:

- + Cost benefit analysis of additional vehicle types (e.g., Class 8 trucks)
- + Detailed siting analysis for EV supply equipment and other infrastructure
- + Grid impacts from hydrogen production facilities
- + Commitments from other electric utilities besides Arizona Public Service and Tucson Electric Power

<sup>1</sup>For further details on project scope, please refer to the E3 presentation at Workshop 1 (July 29th, 2020).

Available at:

<sup>1</sup>[https://illumeadvisors.sharepoint.com/:b:/s/AZTE/EY4E\\_aR5O49MI-1rsgr2Sg8BSWv4mLmOCBBU6dwyX4Tg\\_g?e=Bnd7XB](https://illumeadvisors.sharepoint.com/:b:/s/AZTE/EY4E_aR5O49MI-1rsgr2Sg8BSWv4mLmOCBBU6dwyX4Tg_g?e=Bnd7XB)



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