Stantec

Los Alamos County Fleet Conversion Plan and Community-Wide EV Charging Plan

Project Kick-Off Meeting

ATTACHMENT A

Agenda

1. Project purpose
2. EV fleet conversion plan
3. EV charging plan
4. Engagement strategy
5. Deliverables and timeline

ATTACHMENT A

Project Purpose

1. Reduce greenhouse gas (GHG) emissions from the County fleet
2. Expand EV charging infrastructure
3. Engage County partners

Project Team

Los Alamos County

Angelica Gurule
Pete Mondragon
Mariano Montoya
Mariano Valdez

Colleen Ruiz
Principal-in-Charge

Pamela Bailey-Campbell
Quality Control and Assurance

Eric Plapper
Project Manager and Public Charging Infrastructure Task Lead

Analy Castillo
Fleet Transition Lead

Jackie Fishman
(Consensus Planning) Engagement Lead

Fleet Transition Support Staff

Kelly Watts
Ian Lowell
John Virrey
Conor Clarke (OCMI)

Public Charging Infrastructure

Josh Schacht
Richard Pascoe
Lisa Kenney
Peter Nearing
Berend van Middendorp

Public Charging Infrastructure

Margaret Ambrosino (Consensus Planning)

Fleet and Facilities Existing Conditions

Industry Review

- Vehicles
- Technologies
- Manufacturers
- Charging and fueling equipment

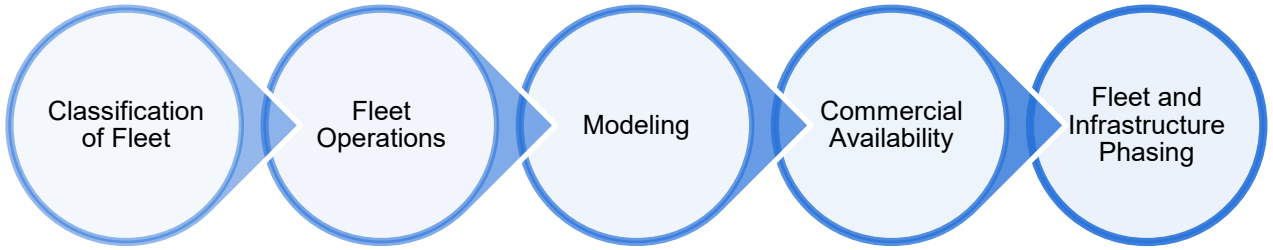
Site visits

- Current fleet
- Vehicle and equipment replacement policies
- Facilities overview
- Site capacity
- Space constraints
- Charger locations
- Utility services

ATTACHMENT A

County Fleet Conversion Plan

- Vehicle performance and power modeling
    - Identify energy requirements and expected operational range
- Vehicle replacement schedule & rightsizing
- Facility assessment and infrastructure upgrades
- GHG emissions analysis
- Financial analysis
- **Task deliverable**: County Fleet Conversion Plan

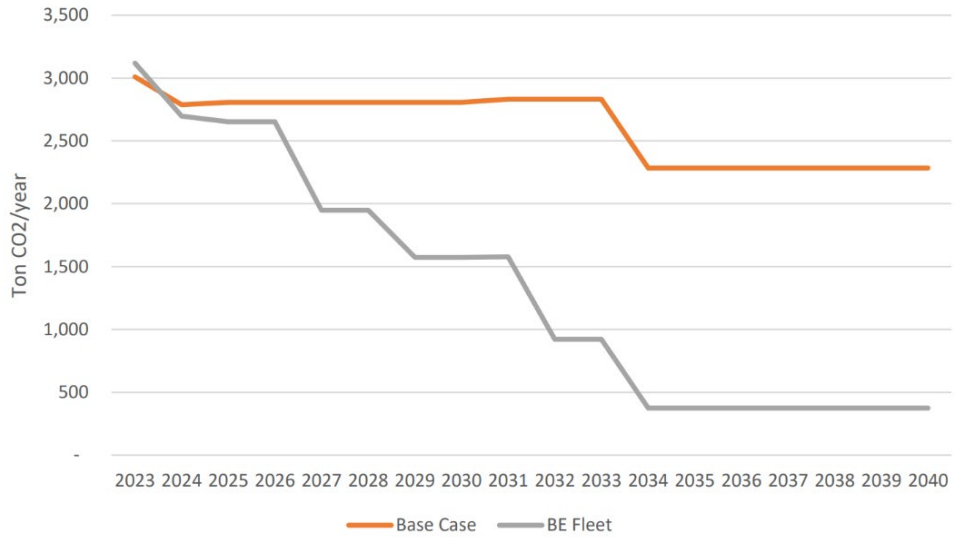


ATTACHMENT A

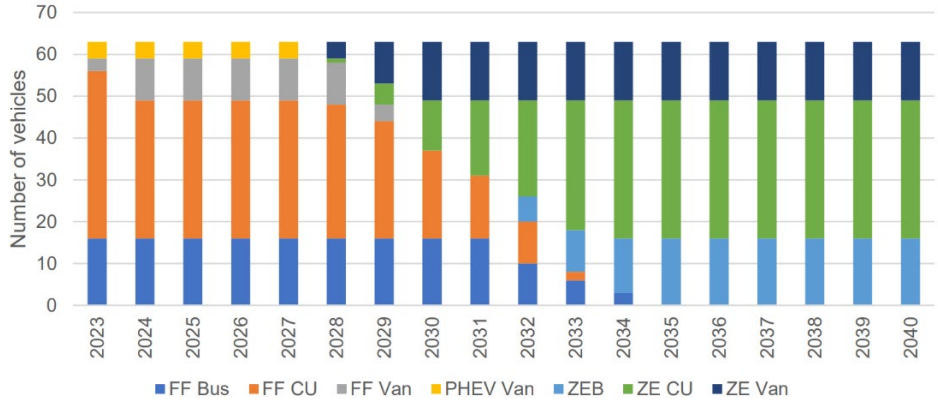
County Fleet Conversion Plan

Quantitative analysis of the fleet will inform the budget, timeline, and approach to EV conversion.

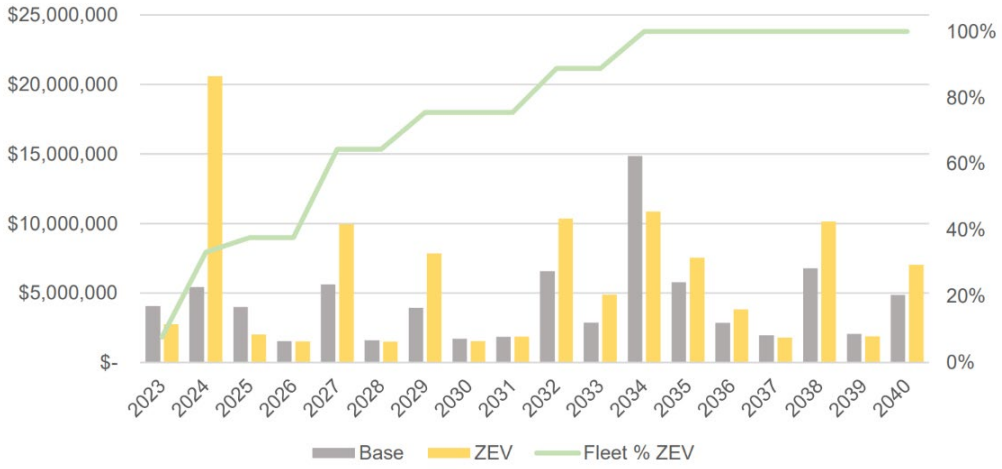
Example GHG Emissions Over Transition Timeline



Example Fleet Composition of Transition Timeline



Financial Analysis Example



Community-Wide EV Charging Plan

1

Contextual Scan and Assessment:

- Relevant local plans
- Permitting, code, and zoning assessment

Deliverable: Contextual Scan and Assessment Technical Memo

2

Technical Analysis:

- Demand projection
- Suitability analysis
- Equity in the mapping process

Deliverable: Integrated Mapping Analysis Technical Memo

3

Implementation Plan:

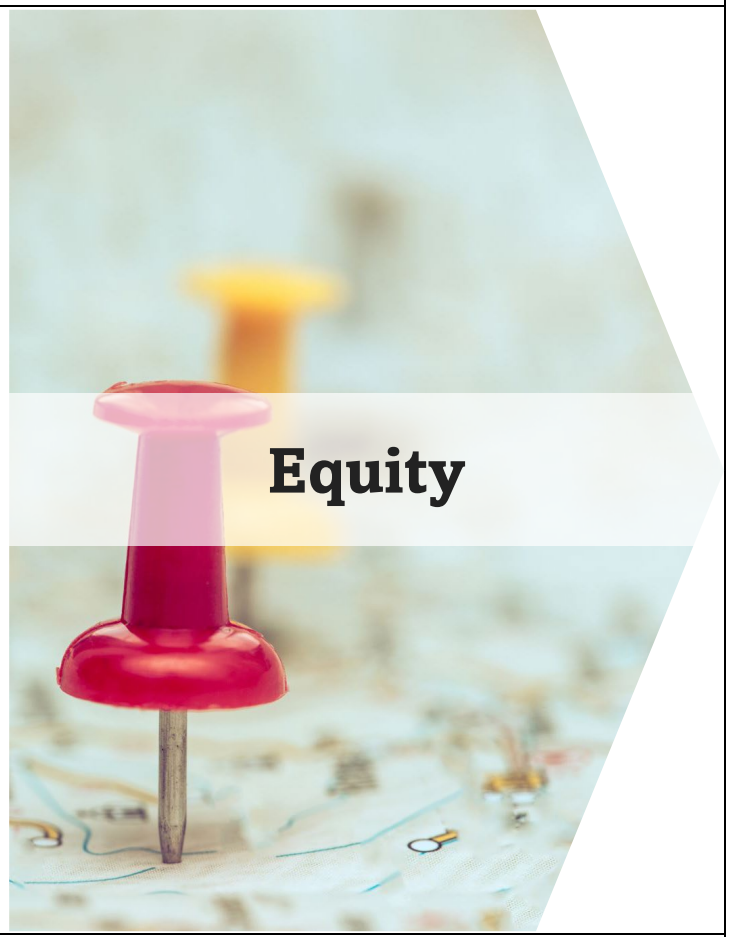
- Business model assessment
- Public infrastructure costs and return on investment

Deliverables: Public Charging Infrastructure Readiness Plan

Relevant Local Plans

- Los Alamos County Climate Action Plan
- LAC Department of Public Utility Integrated Resource Plan
- New Mexico Clean Car Rule
- New Mexico Priority Climate Action Plan
- NMDOT New Mexico 2045 Plan
- New Mexico EV Infrastructure Deployment Plan
- Northern Pueblos Regional Transportation Plan
- LAC Code of Ordinances
- County Comprehensive Plan
- Procurement Policy

What are we looking for in an ideal charging network?



New Mexico Clean Car Rule

The New Mexico Clean Car Rule sets low-emission and zero-emission standards for new cars and trucks sold in the state, starting in 2026.

NMED New Mexico Environment Department

Light Duty Vehicles

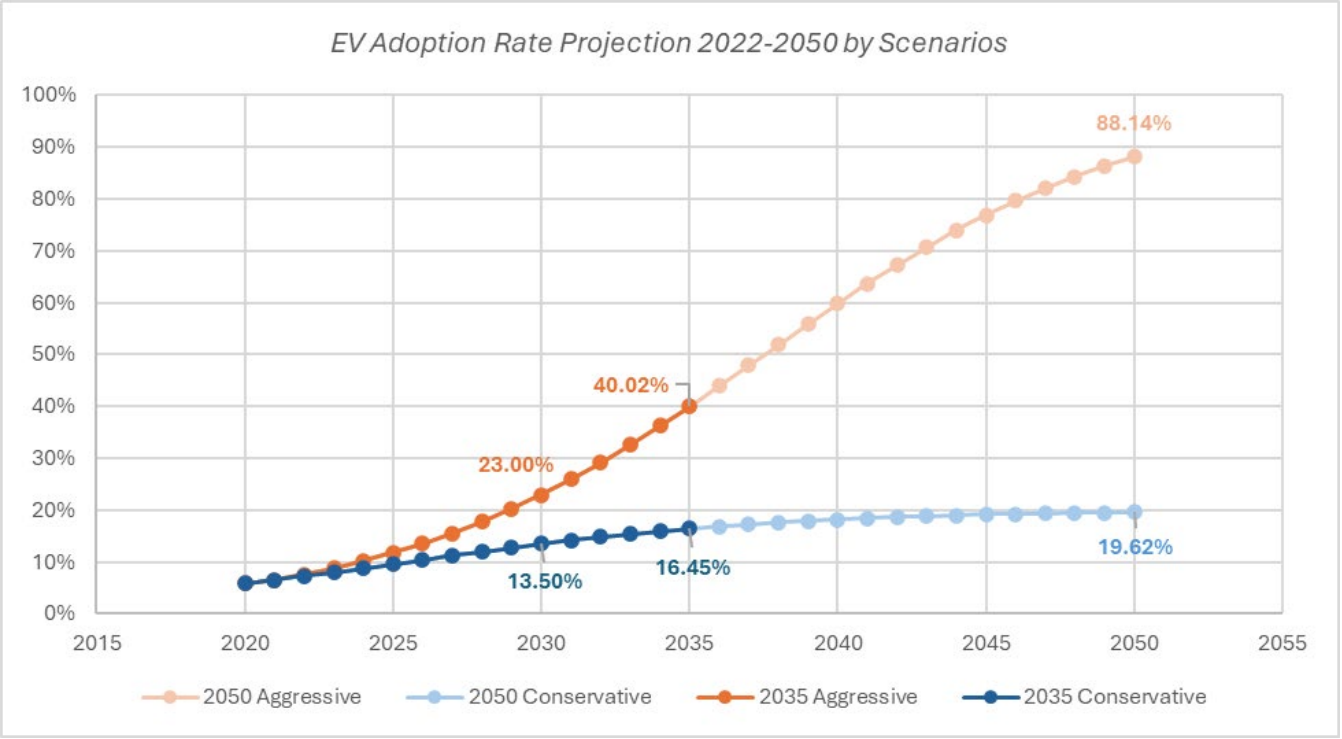
- 43% by 2027
- 82% by 2032

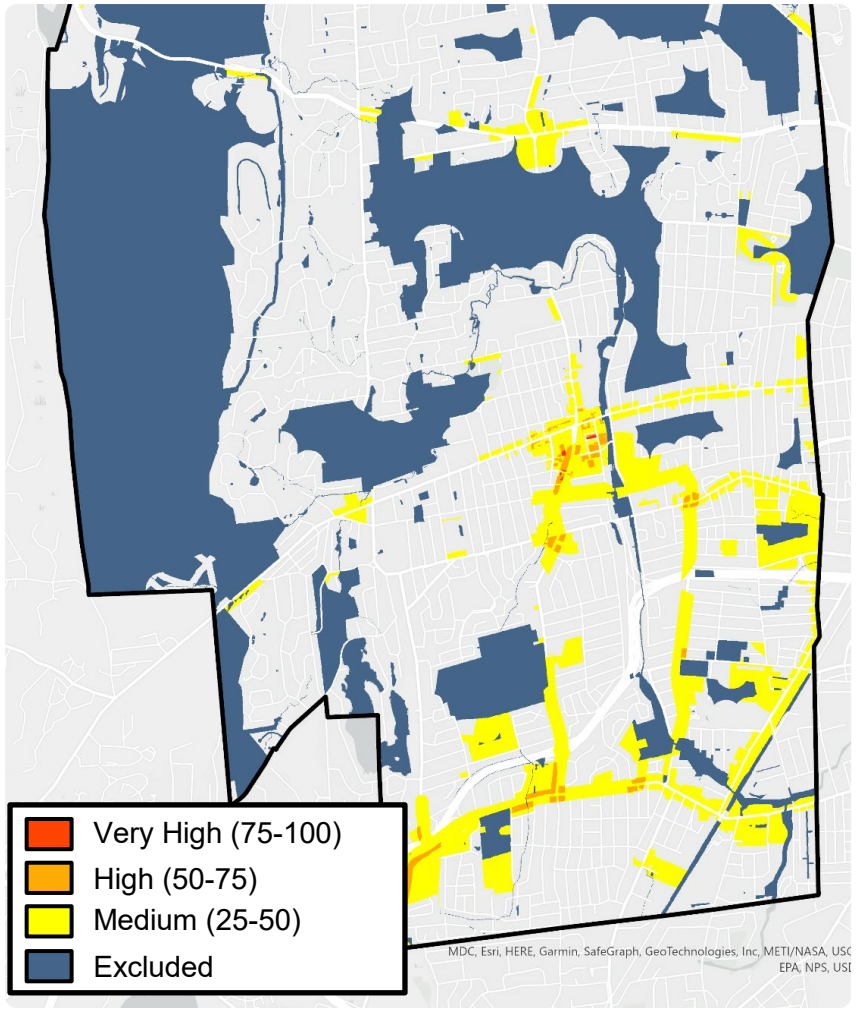
Trucks

- 15% by 2027
- 40% by 2032

Estimating Local Adoption and Charger Needs

- Current registration
- Recent growth in registration
- Alignment with global and national trends
- Developing scenarios

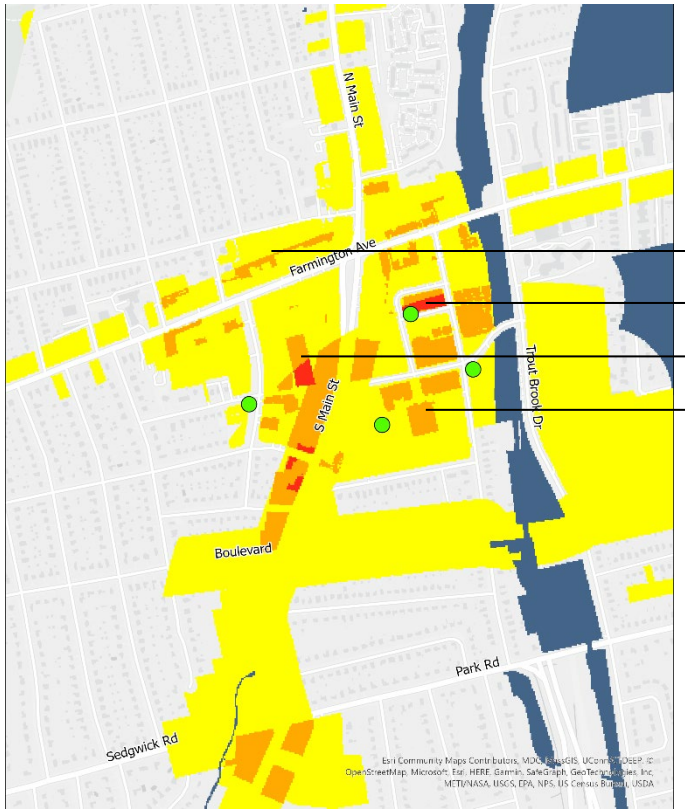




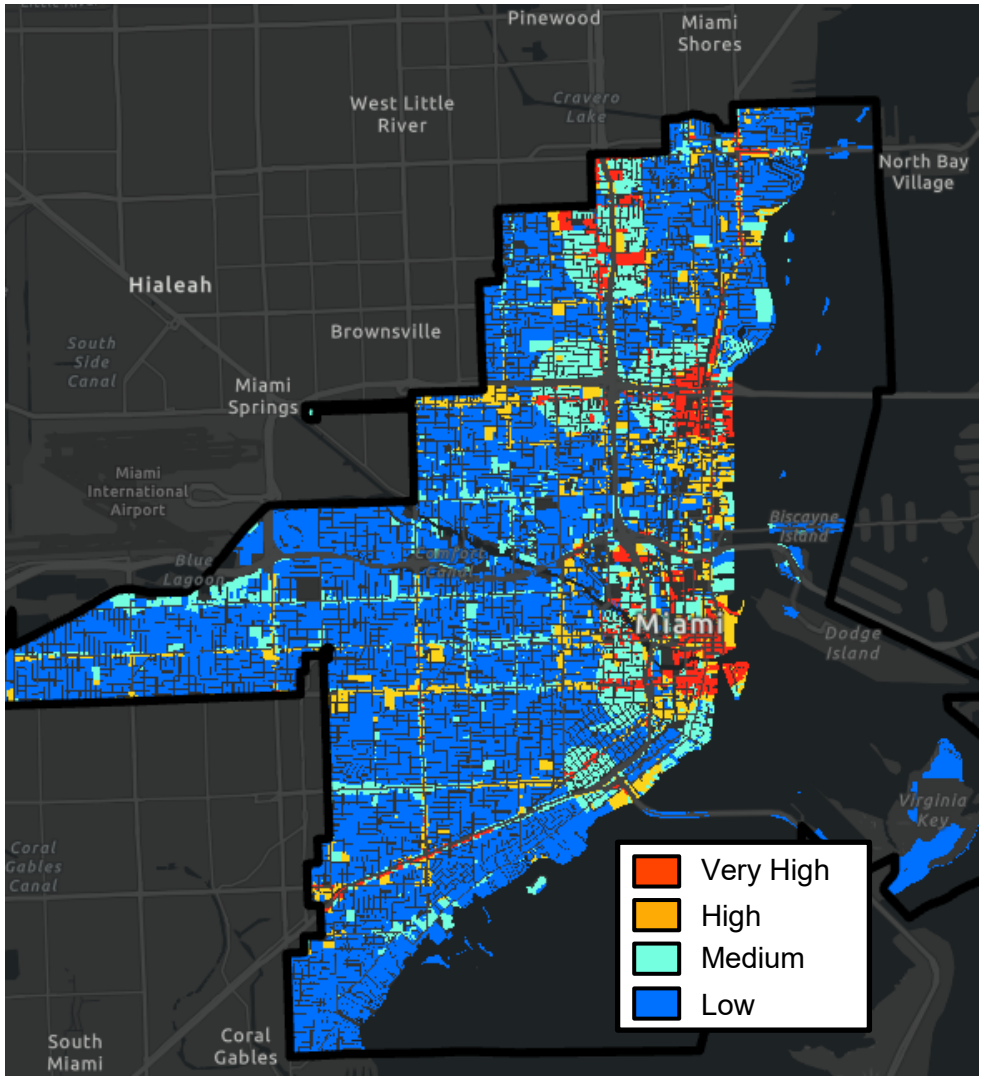
West Hartford, CT Public Charging Infrastructure Suitability Analysis

Example Outputs

West Hartford, CT Site Selection



ATTACHMENT A



Miami, FL Public Charging Infrastructure Suitability Analysis

Outputs: Miami

Scenario Planning:

- Base case
- Underserved communities
- Corridor charging
- Commercial opportunities
- City-owned property

Public and Partner Engagement

Partner and Partner Engagement Plan:

- Partner registry
- Public engagement strategy
- Opportunities to leverage industry organizations

Partner Advisory Meetings:

- Virtual kick-off meeting with County Council
- Virtual presentation of draft fleet and public charging infrastructure plans to County Council, Environmental Sustainability Board, and Board of Public Utilities (one each)
- Virtual presentation of final deliverables to the entities above (one each)

Public Engagement:

- Leverage existing community-based organizations
- Administer statistically valid survey
- EV fact sheet
- One in-person community meeting
- One online community meeting
- Public and Partner Engagement Summary Technical Memorandum
- Opportunity to review and comment on final deliverables

Project Deliverables

Project Purpose • EV Fleet Conversion • EV Charging Infrastructure • Public Engagement • **Timeline**

Los Alamos EV Readiness Plan

Fleet Conversion Plan

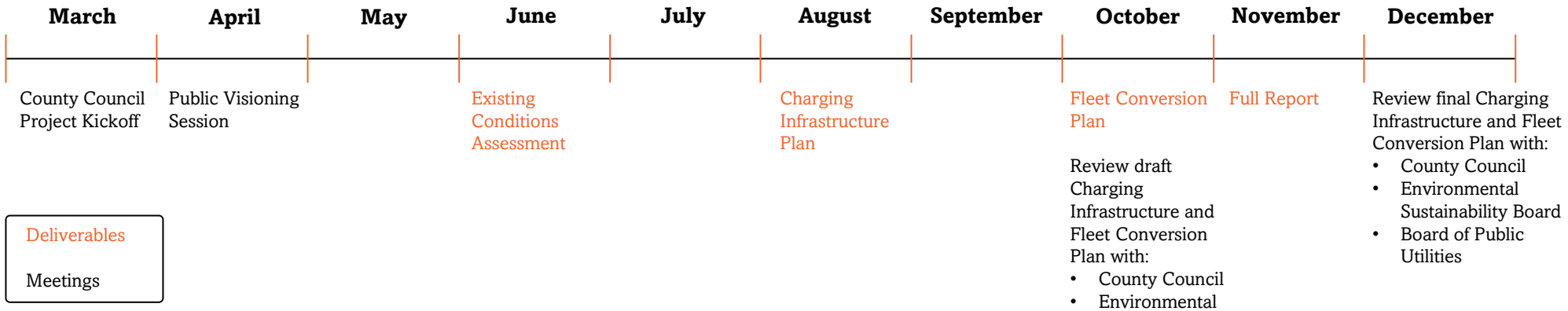
- Vehicle performance and power modeling
- Vehicle replacement schedule
- GHG emissions analysis
- Facility assessment and infrastructure upgrades
- Financial analysis
- County fleet conversion plan

EV Charging Plan

- Local plan review
- Permitting, code, and zoning assessment
- Demand projection
- Suitability analysis
- Equity in the mapping process
- Integrated mapping analysis technical memo
- Business model assessment
- Public infrastructure costs & ROI assessment
- Public charging infrastructure final plan

ATTACHMENT A

Project Timeline



Next Steps

Community visioning session with the public

Fleet and facilities existing conditions assessment

Review of relevant plans and policies

Community-wide demand, suitability, and equity analysis

Questions