Electric Tempe

Stakeholder Outreach

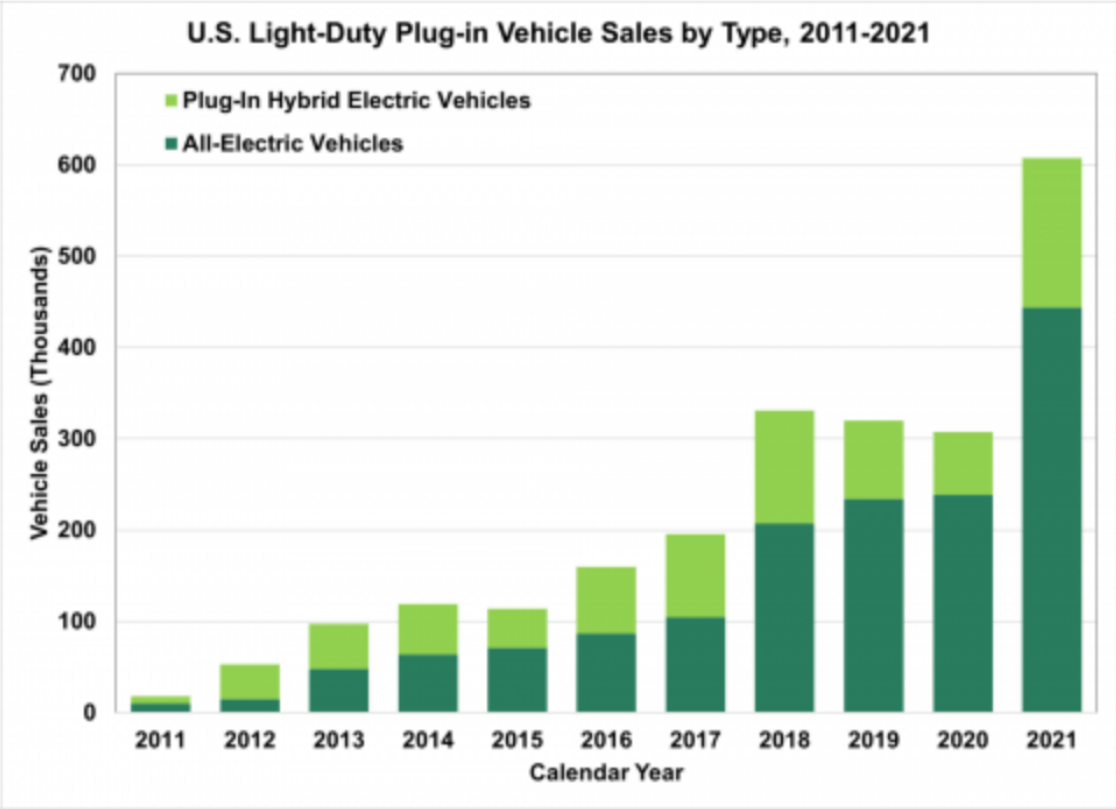
Tempe

Making waves in the desert

National & Local Trends – Federal

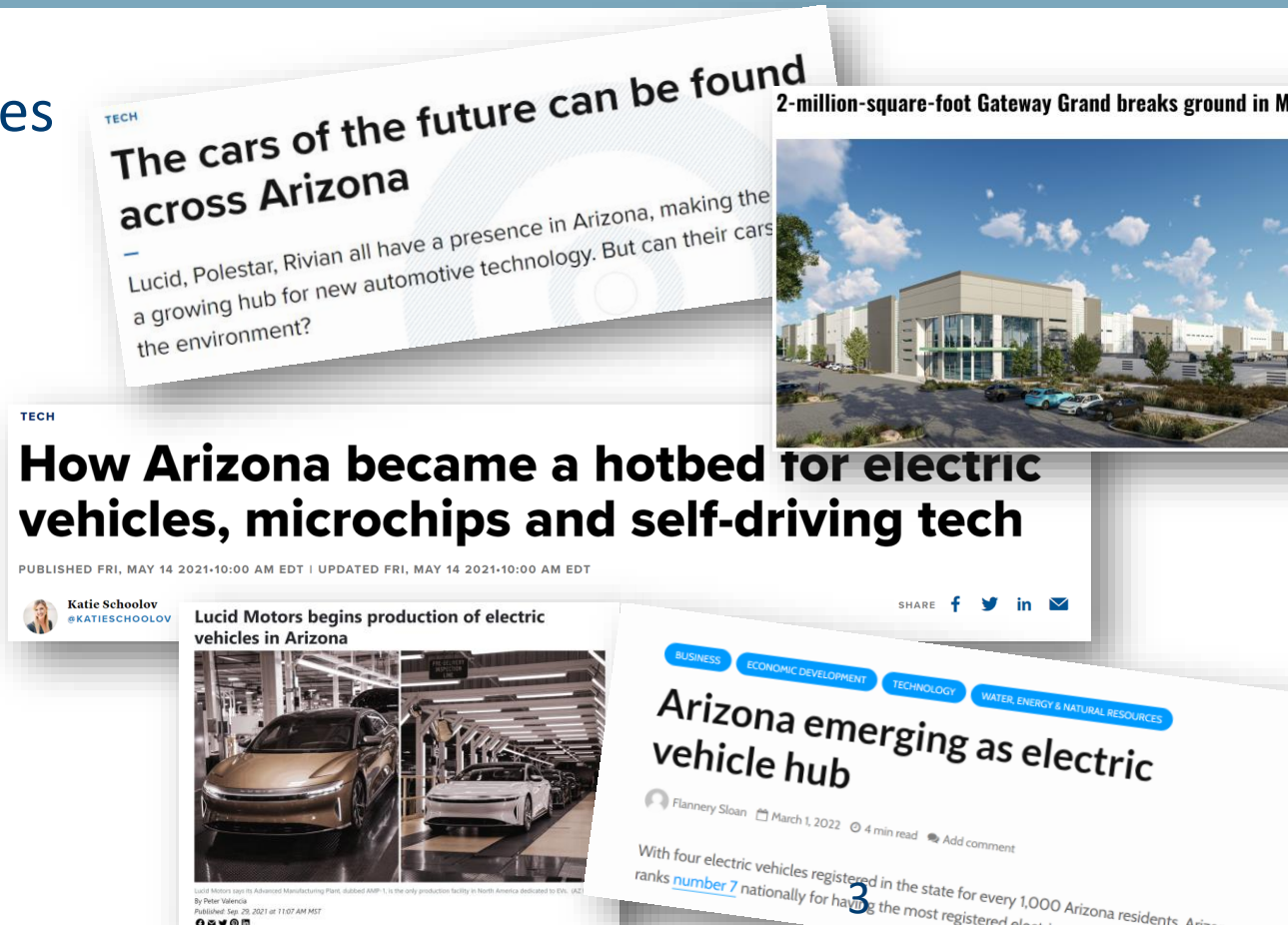
- President Biden has set an ambitious target of 50% of all new vehicles sold in the U.S be zero-emissions vehicles by 2030
  - $5 Billion dollar plan to build EV Charging Network

- EV sales grew by 85% from 2020 to 2021



State Trends – Companies Located in Arizona

- Zero Electric Vehicles
- Nikola Motor
- Electra Meccanica
- Lucid Motors
- Local Motors
- ChargePoint
- Li-Cycle
- Kore Power

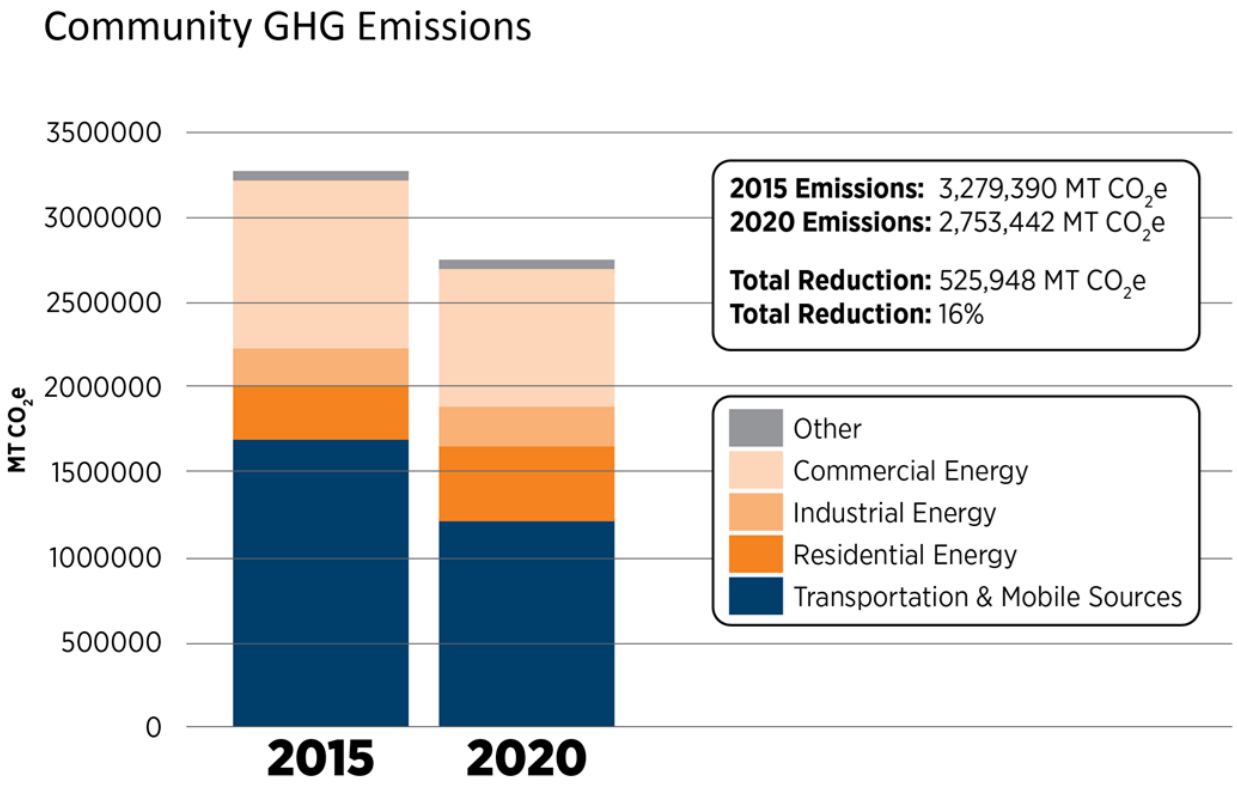


Local Trends – Sales/Demand Data

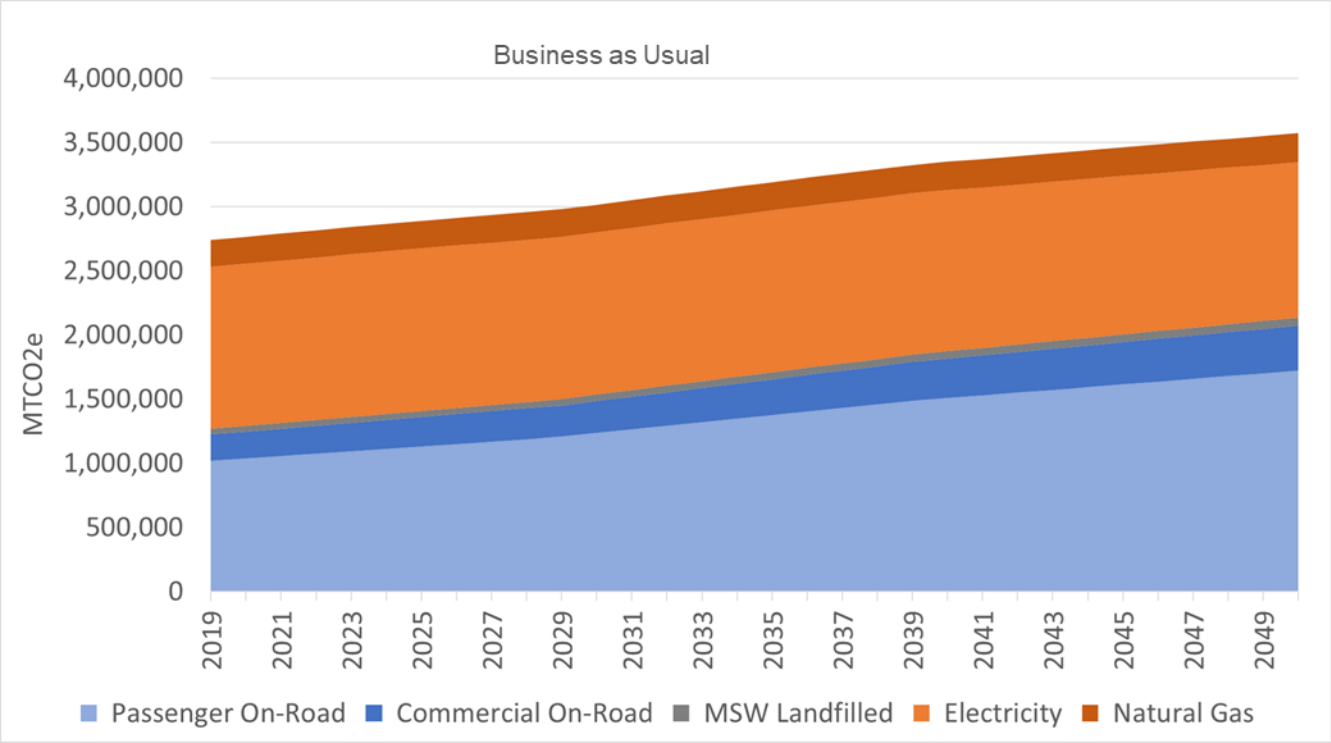
- Tempe 2021 Electric Vehicle Ownership – 2,184
- Maricopa County 2021 Electric Vehicle Ownership – 57,147

Projection Rates for Electric Vehicles for 2030			
Geography	Slow Entrance (6.2%)	Medium Entrance (10.6%)	Fast Entrance (15%)
Tempe	9,137	15,622	22,106
Maricopa County	234,278	400,540	566,801
Arizona	413,881	707,603	1,001,325

Why This is Important to Tempe



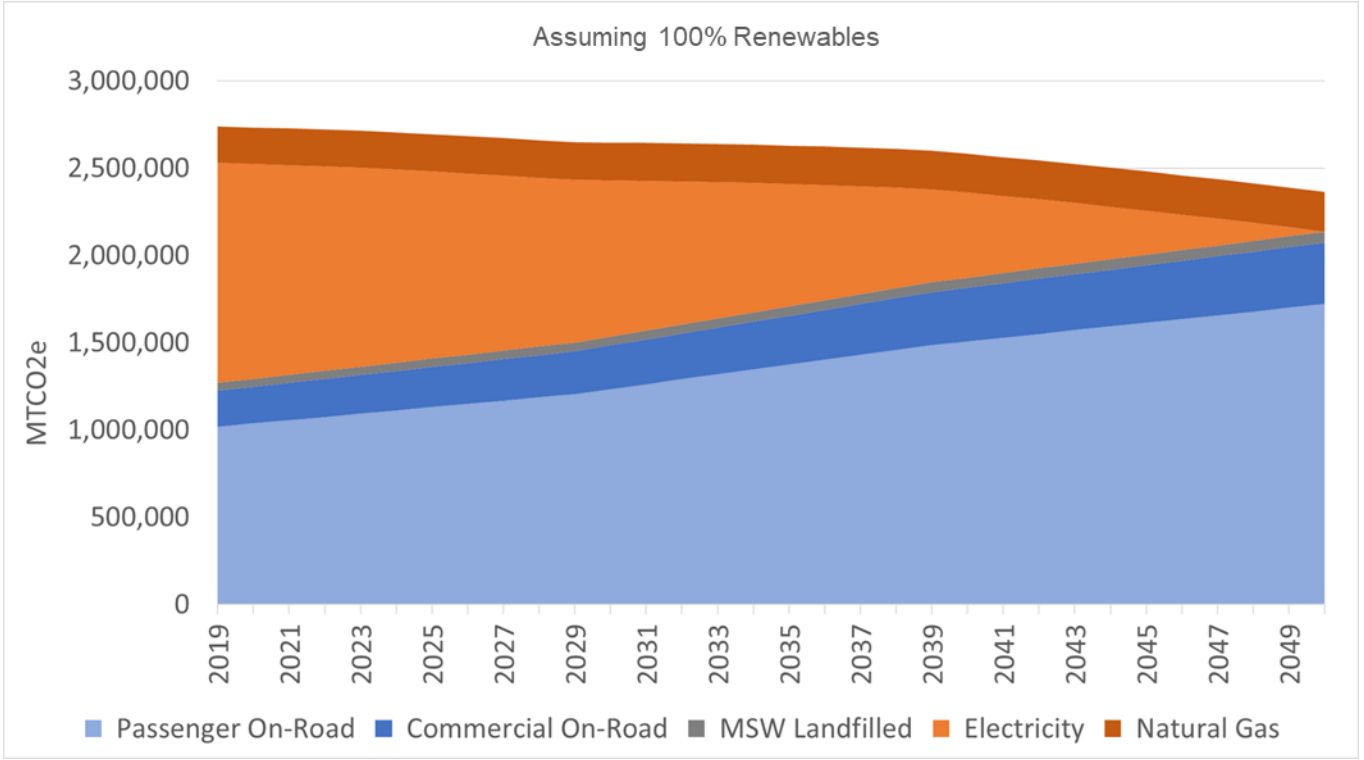
Business As Usual



Without local action

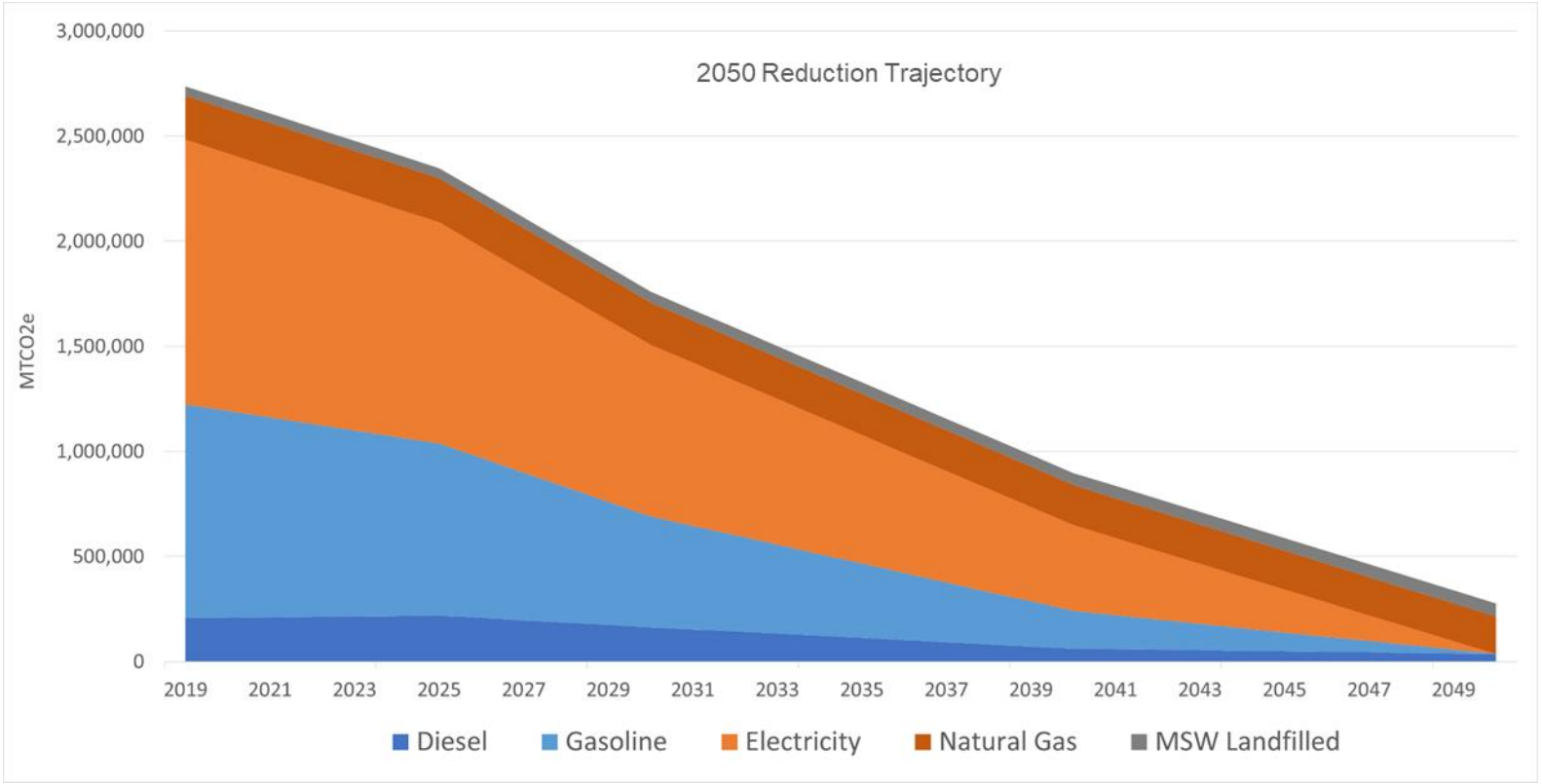
over 3.5 million metric tons of GHG emissions in 2050

Business As Usual with Renewable Energy



Tempe's community will produce **2.3 million metric tons** of GHG emissions in 2050.

Summary Recommendations

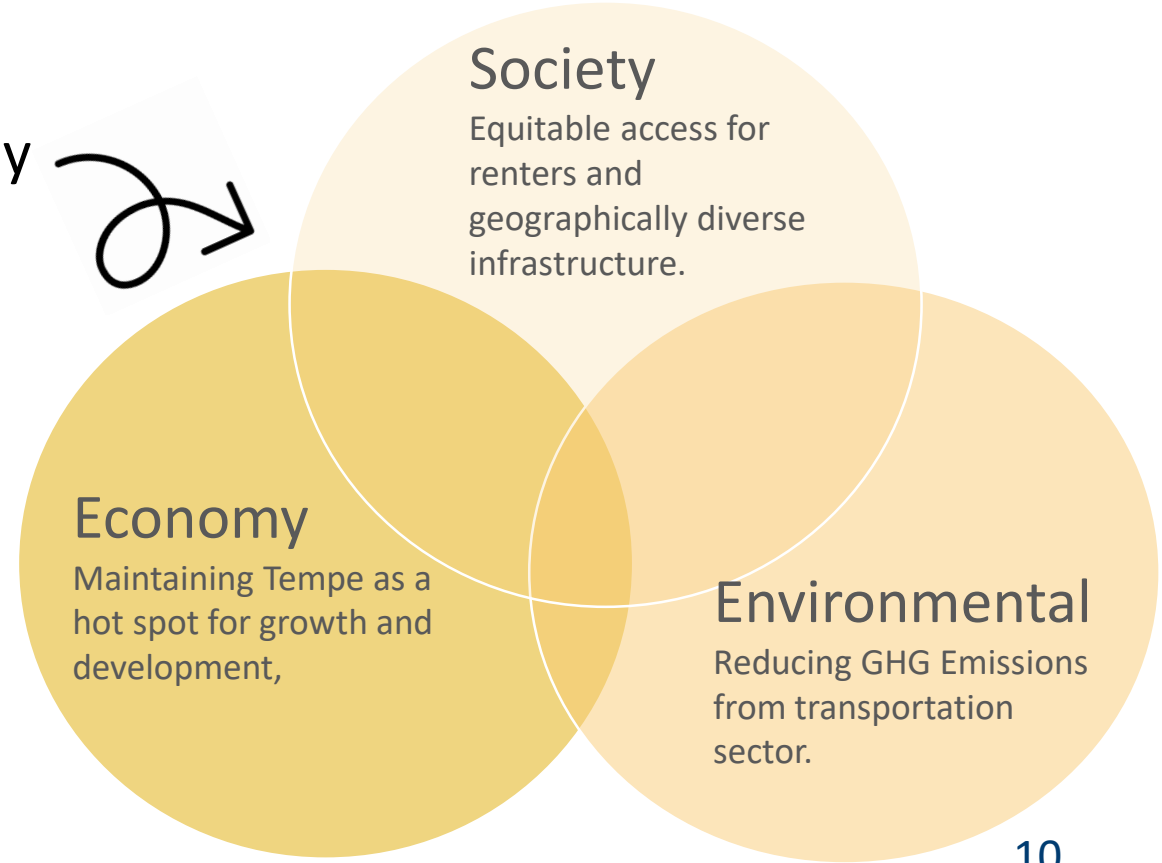


Challenges in Development World

- Disrupted Supply Chain
  - Lack of Materials and Equipment
- Inflation
  - Diminished Revenues
  - Rising Costs of Materials, Supplies, Deliveries, etc.
- Labor Shortages
  - Lack of Skilled Labor

Mutual Goals for Green Building Policy

EV Ready Code



Discussion

National & Local Trends – Spectrum of EV Policy

Municipality	Single-family	Multi-family	Commercial
Sedona	1 EV-Capable space per dwelling unit	-	5% EV-Capable
Flagstaff	1 EV-Ready space per dwelling unit	3% EV-Ready	3% EV-Ready
Tucson	-	10%-EV Ready, 15% EV Capable, 0% EV Installed	Commercial 5%-EV Ready, 15%- EV Capable, 0% Installed, Retail 5% Ready, 0% EV Capable, 5% EV Installed
Denver	1 EV-Ready space per dwelling unit	5% EV-Installed, 15% EV-Ready, 80% EV-Capable	5% EV-Installed, 10% EV-Ready, 10% EV-Capable
Portland	50% of parking spaces (min of 6 spaces) EV Ready	50% of parking spaces (min of 6 spaces) EV-Ready	50% of parking spaces (min of 6 spaces) EV-Ready
Seattle	1 EV-Ready space per dwelling unit	100% EV-Ready up to 6 space, 20% for parking lots with 7+ spaces	10% EV-Ready
Boulder	1 EV-Ready space per dwelling unit	5% EV-Installed, 15% EV-Ready, 40% EV-Capable (25+ spaces)	5% EV-Installed, 10% EV-Ready, 10% EV-Capable
Madison	-	2% EV-Installed, 10% EV-Ready (increases by 10% every 5 years)	1% EV-Installed (increases by 1% every 5 years), 10% EV-Ready (increases by 10% every 5 years)
St. Louis	1 EV-Ready space per dwelling unit	2% EV-Installed, 5% EV-Ready (increases to 10% in 2025)	2% EV-Installed, 5% EV-Ready
Chicago	-	20% EV-Ready (5+ spaces)	20% EV-Ready (30+ spaces)
Salt Lake City	-	20% EV-Capable	-
San Fransisco	1 EV-Ready space per dwelling unit	10% EV-Ready, Panel Capacity for 20%, Raceway for 100%	10% EV-Ready, Panel Capacity for 20%, Raceway for 100%
Fort Collins	1 EV-Capable space per dwelling unit	10% EV-Installed, 20% EV-Ready, 40% EV-Capable	5% EV-Installed, 15% EV-Ready, 20% EV-Capable