

# Electric Tempe

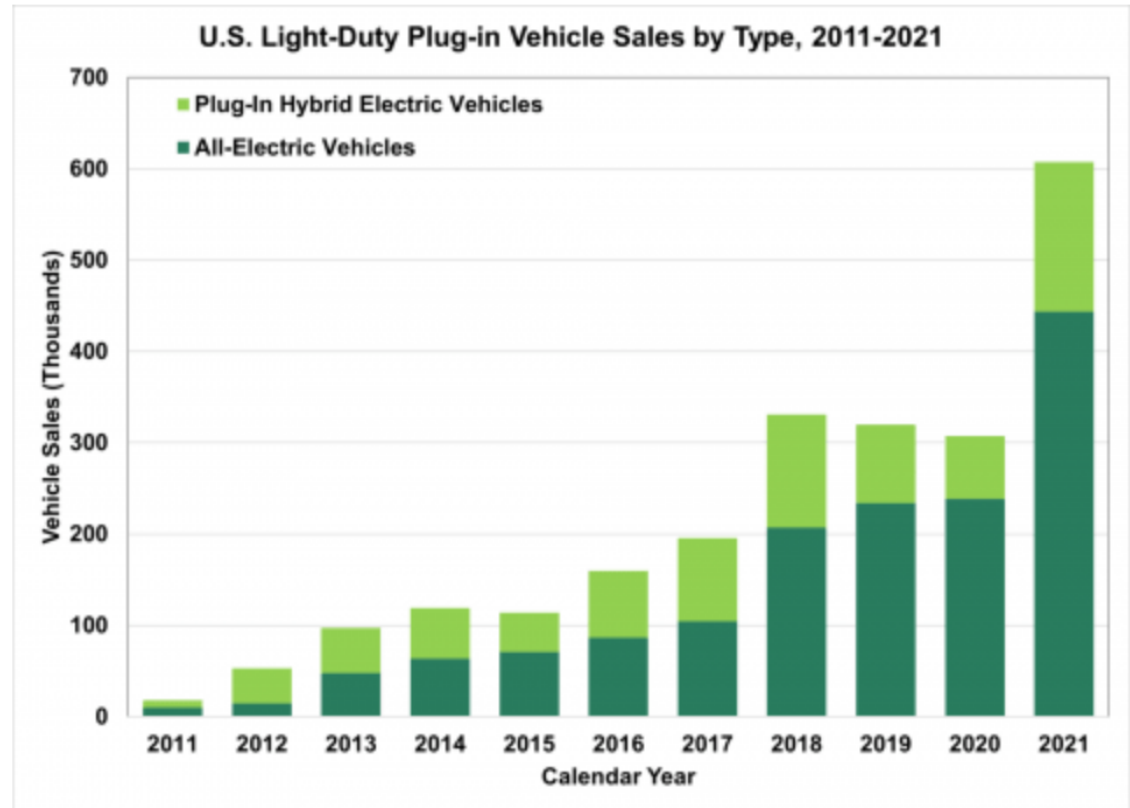
## Stakeholder Outreach





## 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

## TECH The cars of the future can be found across Arizona

Lucid, Polestar, Rivian all have a presence in Arizona, making the state a growing hub for new automotive technology. But can their cars be built in the environment?

2-million-square-foot Gateway Grand breaks ground in M



TECH

## How Arizona became a hotbed for electric vehicles, microchips and self-driving tech

PUBLISHED FRI, MAY 14 2021-10:00 AM EDT | UPDATED FRI, MAY 14 2021-10:00 AM EDT



Katie Schoolov  
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### Lucid Motors begins production of electric vehicles in Arizona



Lucid Motors says its Advanced Manufacturing Park, dubbed AMP-1, is the only production facility in North America dedicated to EVs. (AP Photo/Peter Valencia)

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## BUSINESS ECONOMIC DEVELOPMENT TECHNOLOGY WATER, ENERGY & NATURAL RESOURCES Arizona emerging as electric vehicle hub

Flannery Sloan March 1, 2022 4 min read Add comment

With four electric vehicles registered in the state for every 1,000 Arizona residents, Arizona ranks **number 7** nationally for having the most registered electric vehicles.



## Local Trends – Sales/Demand Data

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

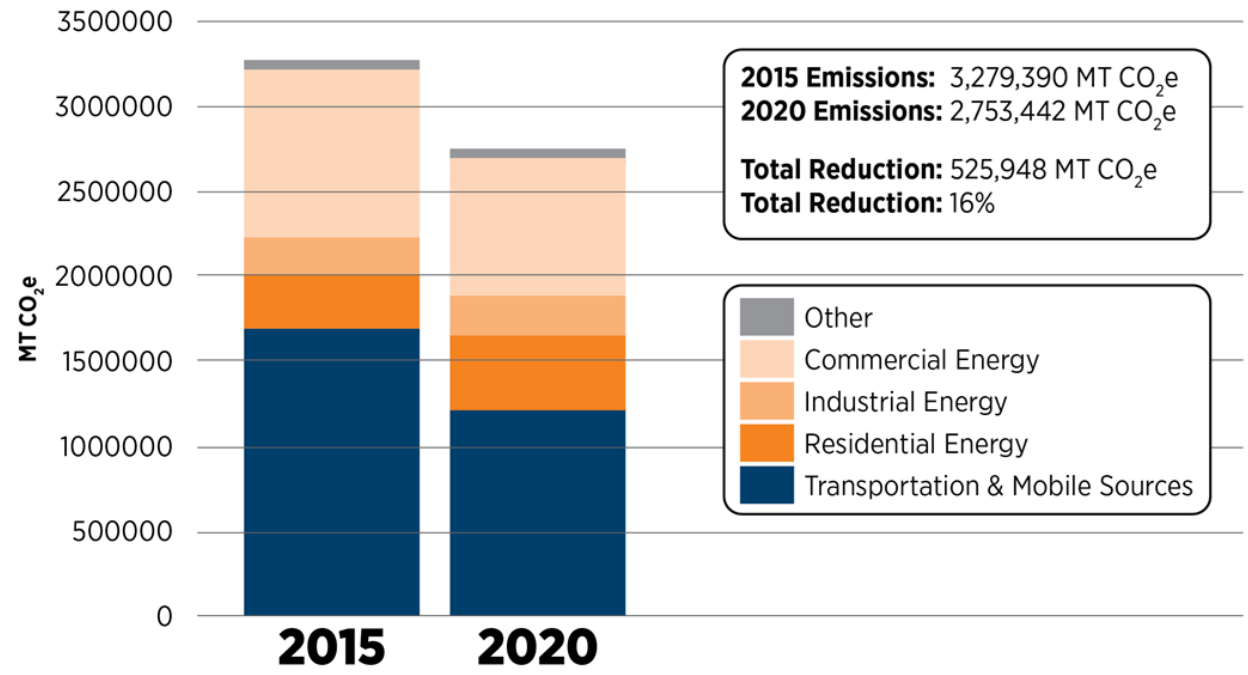
### Projection Rates for Electric Vehicles for 2030

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



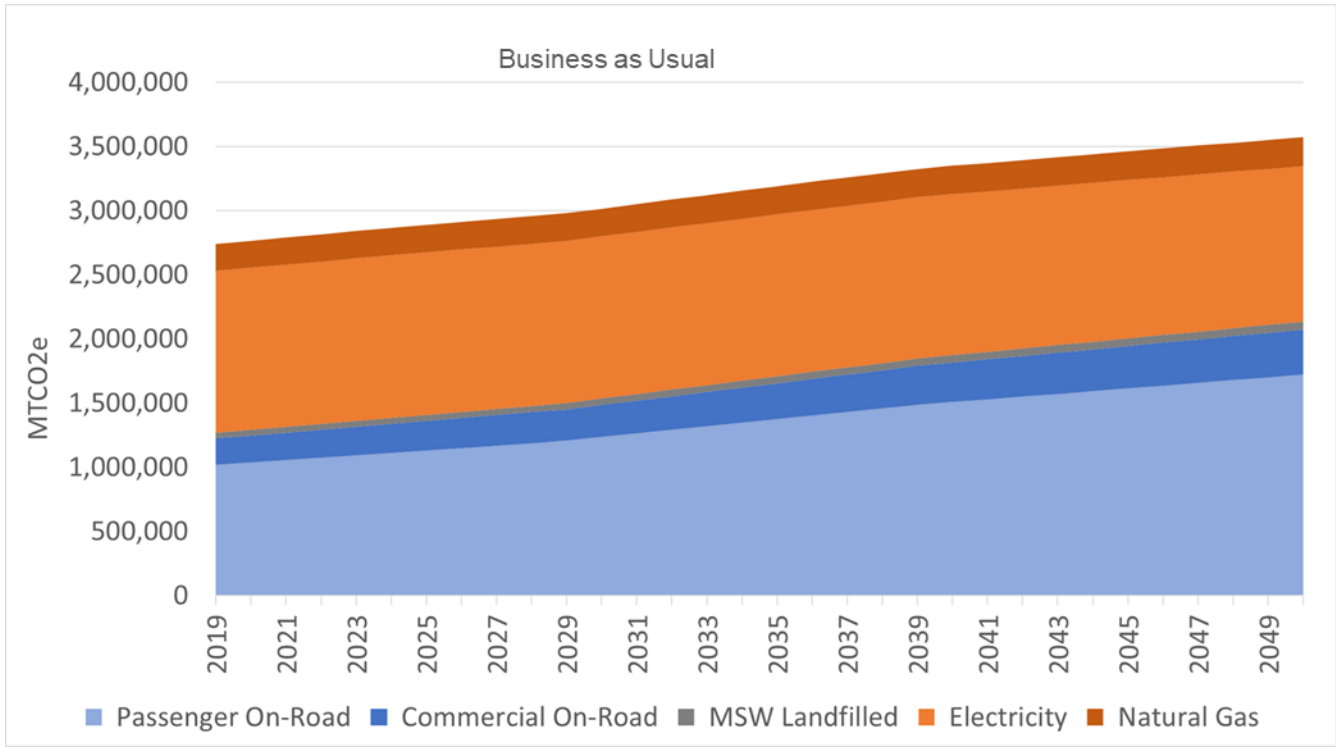
# Why This is Important to Tempe

## Community GHG Emissions





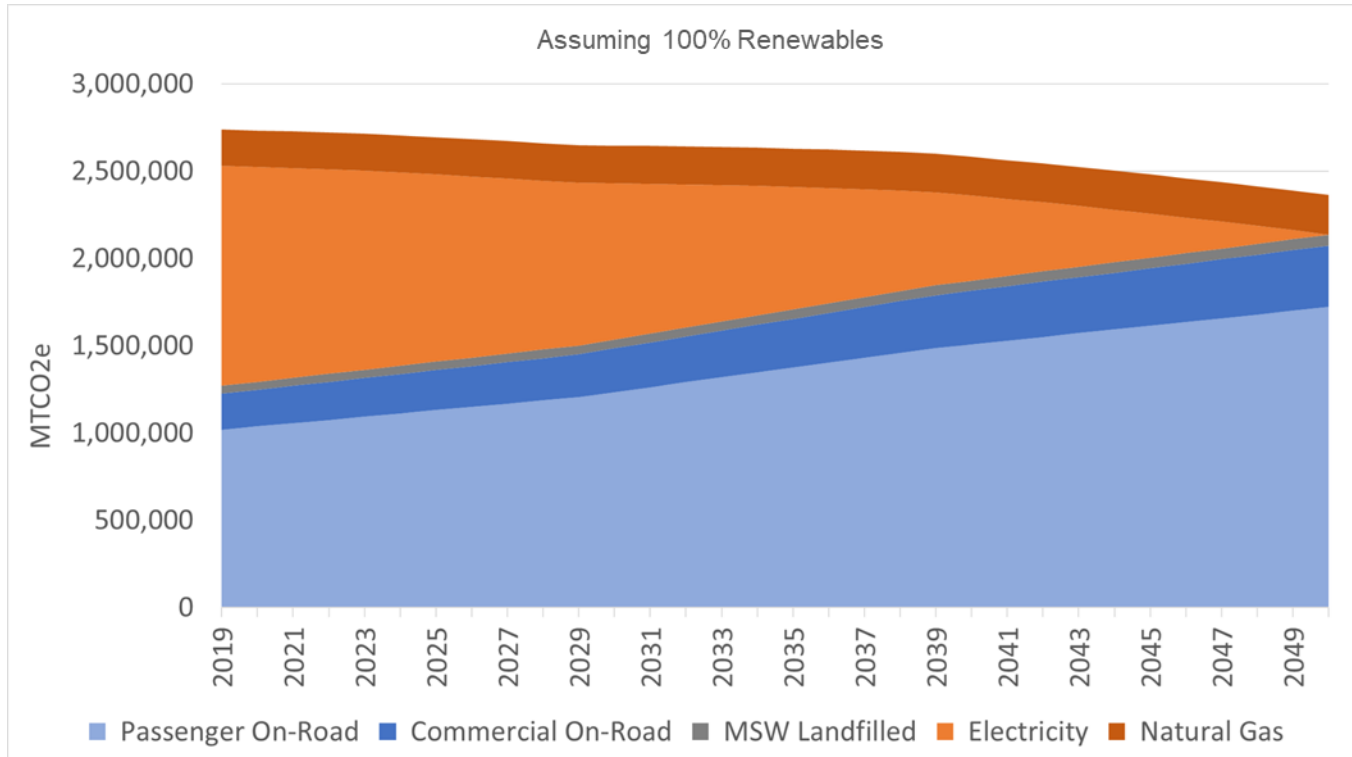
# Business As Usual



**Without local action**  
over 3.5 million metric tons of GHG emissions in 2050



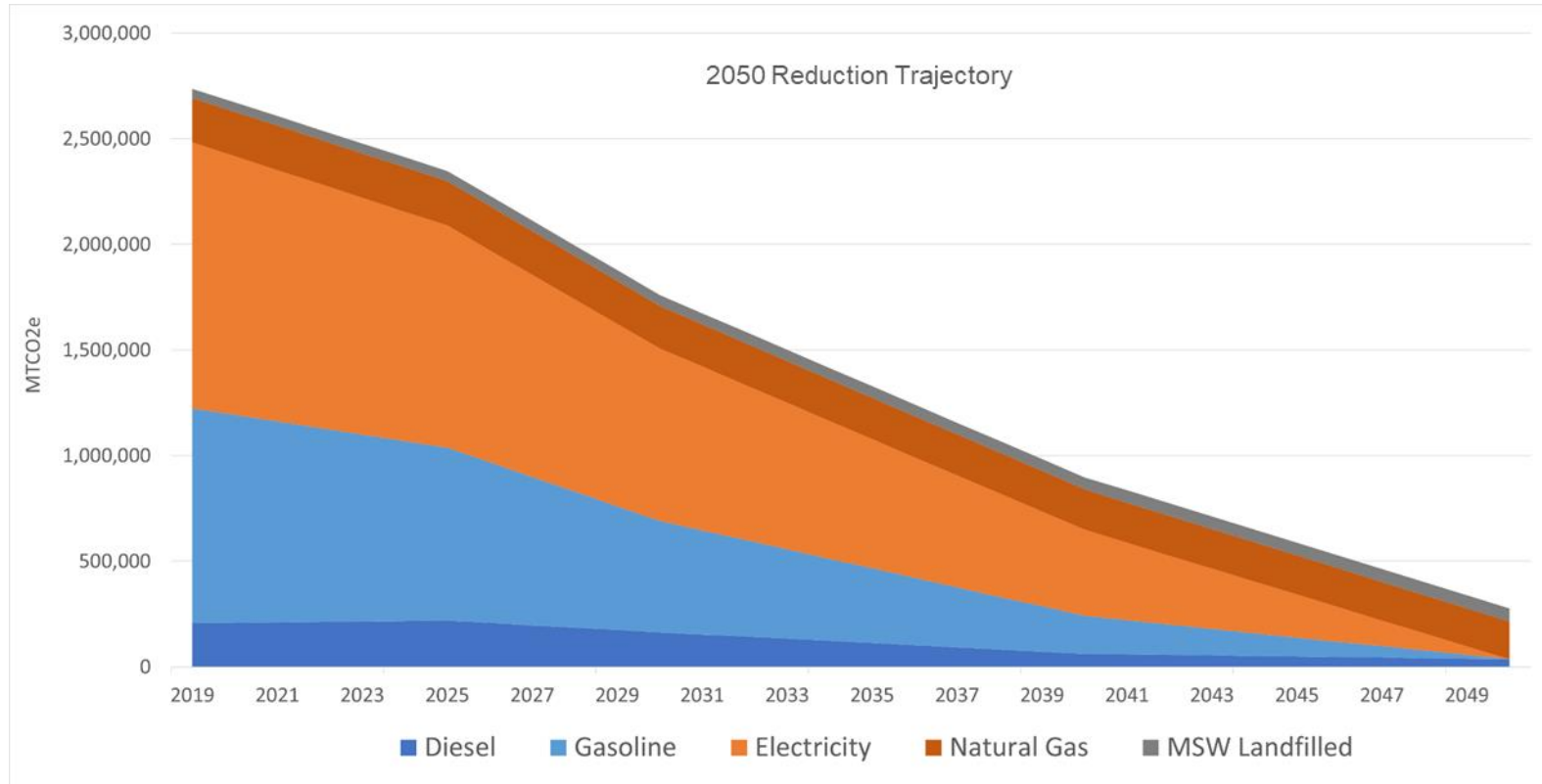
# Business As Usual with Renewable Energy



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

The pain of inflation: Construction companies feel the pinch as prices rise  
By Staff Reports - July 17, 2022

**US Manufacturers Strategically Take On Inflation, Labor Shortages**  
By Arthur Friedman [in](#) [f](#) [t](#) [e](#) [+](#)

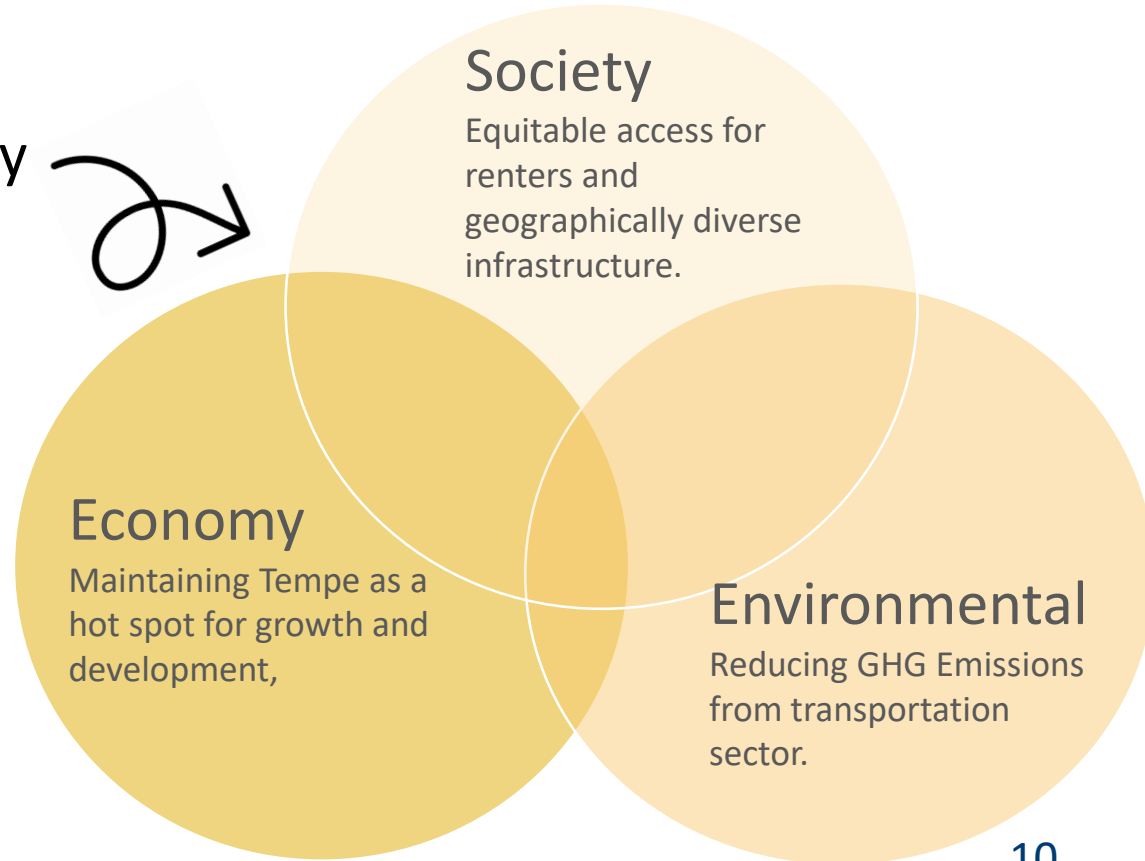
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**High demand for contractors, even though construction is becoming way more expensive**  
July 04, 2022 By Yasmin Amer [t](#)

**BUSINESS**  
**Supply chain, costs, labor force are top issues for regional construction sector**  
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# Mutual Goals for Green Building Policy

EV Ready  
Code



# Discussion



# National & Local Trends – Spectrum of EV Policy

Municipality	Single-family	Multi-family	Commercial
<a href="#">Sedona</a>	1 EV-Capable space per dwelling unit	-	5% EV-Capable
<a href="#">Flagstaff</a>	1 EV-Ready space per dwelling unit	3% EV-Ready	3% EV-Ready
<a href="#">Tucson</a>	-	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
<a href="#">Denver</a>	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
<a href="#">Portland</a>	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
<a href="#">Seattle</a>	1 EV-Ready space per dwelling unit	100% EV-Ready up to 6 space, 20% for parking lots with 7+ spaces	10% EV-Ready
<a href="#">Boulder</a>	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
<a href="#">Madison</a>	-	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)
<a href="#">St. Louis</a>	1 EV-Ready space per dwelling unit	2% EV-Installed, 5% EV-Ready (increases to 10% in 2025)	2% EV-Installed, 5% EV-Ready
<a href="#">Chicago</a>	-	20% EV-Ready (5+ spaces)	20% EV-Ready (30+ spaces)
<a href="#">Salt Lake City</a>	-	20% EV-Capable	-
<a href="#">San Francisco</a>	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%
<a href="#">Fort Collins</a>	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