



EV Chargers in the 2022 Proposed Budget

Mike Crystal, Facilities Director

Emily Quinton, Sustainability Program Manager

Agenda



Overview

EV adoption

EV Charging Station Infrastructure
Report & Strategic Plan

2022 requests

Executive Summary

Environmental Stewardship &
Transportation

Resolution #2019-29 (5) Transportation
Changes

Support fleet, employee, and public EV
Adoption

SWOT Analysis

EV adoption

Fleet

Potential for 3-5 (or more) new electric fleet vehicles in 2022 based on departmental vehicle requests and initial Fleet Committee review.

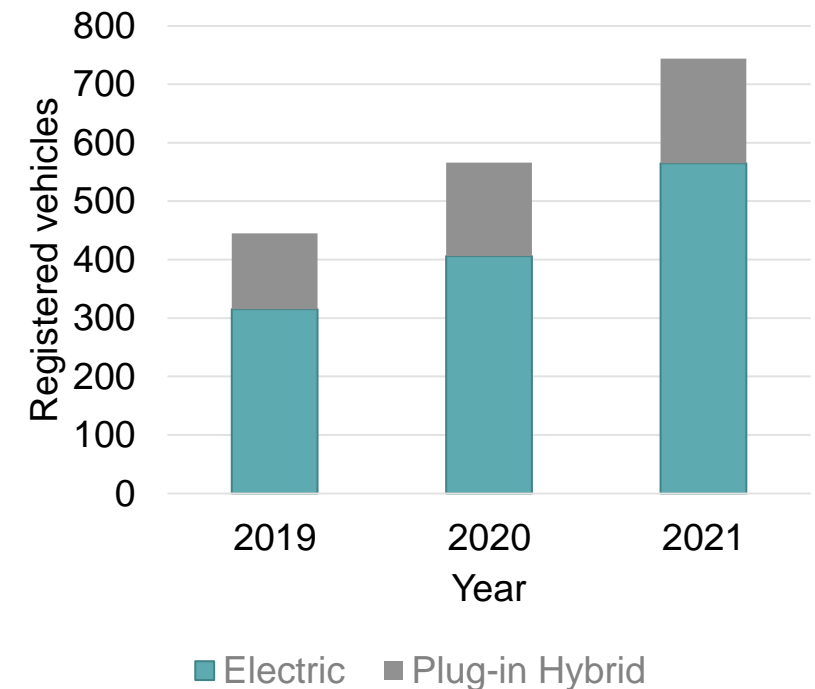
Employees

Employee EV ownership (anecdotal)

- Prior to 2021: at least two employees drove plug-in vehicles
- In 2021: at least two additional employees that drive plug-in vehicles
- In 2022: know of at least two additional employees planning to drive plug-in vehicles

Community

Passenger & light truck vehicle registrations in Summit County



Electric vehicle charger implementation

EV Chargers Installed to Date*							
Year	Number of stations, type of charge station	Location	# Ports	Total Installed Cost	Grants/ Rebates	Net Installed Cost to County	# of uses
2017	(1) Level II, non-network (Clipper Creek)	Richins	2	\$1,500	\$1,500	\$0	Unknown
2018	(2) Level III, 50 kW DC networked (BTC)	Richins	2	\$183,140	\$183,140	\$0	Info requested
2019	(1) Level III, 50 kW DC networked (ChargePoint)	Courthouse	1	\$158,580	\$120,500	\$38,080	3,157 (as of August 2021)
	(2) Level II, networked (ChargePoint)	Courthouse	4				
	(2) Level II, networked (ChargePoint)	Kamas	4				
	(2) Level II, networked (ChargePoint)	Public Health	4				
2019	(5) Level II, networked (ChargePoint)	Ecker Hill Park & Ride	10	\$60,160	\$17,258	\$42,902	
	15 chargers total	Total	27	\$404,880	\$322,398	\$82,482	

*One Clipper Creek charger previously installed at the Courthouse was removed

Note: all stations except the one Clipper Creek are networked and warrantied

Plan for additional chargers: 2022 requests

Planned Charging Stations Rearranged to indicate priority for installation		
# of stations	# Ports	Location
3	9	Justice Center, 6300 Justice Center Rd, Park City, UT 84098
3	9	Jeremy Ranch Park and Ride, Summit Park, UT 84098
4	8	Richins Building, 1885 W Ute Blvd, Park City, UT 84098
2	4	Public Works, 1755 S Hoytsville Rd, Coalville, UT
2	4	Ledges Event Center, 202 Park Rd, Coalville, UT 84017
2	4	Kamas Park & Ride
1	1	Bus charger: Kamas Park & Ride

To support fleet, employee, public use

In the 2022 budget proposal, EV chargers are requested for the Justice Center, Jeremy Ranch Park & Ride, and Richins Building. Based on recent information, staff suggest that a portion of the request for the Richins Building be allocated to Public Works instead.

2022 Requests: more information

Site	# chargers	Estimated upfront cost (\$)
Justice Center	3	71,840
Jeremy Ranch Park & Ride	3	43,075
Richins	4	105,558
Total	10	220,473

Estimated costs

Estimated upfront costs: increased previous estimates to account for changes in construction and equipment costs

Anticipating future costs: renewals for networking, cell service and warranties; electricity costs

External funding opportunities

Most confident we can access RMP's updated non-residential Level 2 charger incentive of \$1,500 per charger.

Will also explore:

- RMP custom EV incentives
- DEQ workplace EV charging funding assistance program
- UCAIR grant program
- Federal funding opportunities

Executive Summary

Summit County Strategic Plan

Vision: Summit County is a vital community that is renowned for its natural beauty, quality of life, and economic diversity, that supports a healthy, prosperous, and culturally-diverse citizenry.

Mission: Provide excellent, ethical, efficient services that ensure quality of life for present and future generations.

Values: Regional Collaboration: Work with our federal, state, municipal and community partners.

Responsive: Take action in a timely manner, meeting the needs of our citizens.

Preservation: Preserve our land, water, air and culture.

Leadership: Motivate others to collaboratively achieve goals.

Transportation and Congestion

The County will plan for and make improvements to our transportation system to reduce traffic congestion.

Workforce Housing

The County will facilitate efforts to significantly decrease the deficit in workforce/affordable housing in order to have more community members who work and live in our County.

Environmental Stewardship

Through environmental stewardship and leadership the County will implement plans and policies to secure, preserve and protect our water, land and air quality for the present and future. This is done through a collaborative effort between our [Sustainability](#), [Transportation](#), [Engineering](#) and [Environmental Health](#) departments.

Refine County General Plans and Development Codes

The County will review and refine the General Plans and Development Codes focusing on improving and connecting the region's physical, natural, and economic environments and communities.

Mental Health/Substance Abuse Issues

The County, in collaboration with the Board of Health and the Summit County Mental Wellness Alliance, will promote community awareness of mental wellness and substance abuse issues, and increased access to effective treatment and prevention services and programs within Summit County



Department Goal (SMART)

- Support capacity to “fuel” electric vehicles at county facilities by installing 10 additional charger stations in 2022
- Evaluate Summit County EV charging strategy to better inform decisions about selected charger types and potential fee structures. Present findings in 2022
- Participate in ongoing conversations among Utah Climate Action Network (UCAN) Electrified Fleets working group, Urban Sustainability Director’s Network (USDN), and Mountain Towns 2030 network (MT2030)
- Provide employees with educational resources on driving EVs and using EV chargers at County facilities

Programs to Execute to Achieve Goal:

- Partnership between Sustainability, Facilities, and Public Works Departments
- Partnership between Sustainability and Communications departments
- Additional capacity with new Sustainability Analyst
- Networks: UCAN Electrified Fleets working group; USDN; MT2030
- Workplace charging assistance programs and resources

SWOT ANALYSIS

Strengths:

- Directly support Council goals in Resolution 2019-29
- Builds off existing EV charging strategic plan; helps meet demand
- Experience with installations, contractors, charging technologies, maintenance needs

Opportunities:

- Support expansion of EV fleet; employee & community EV adoption
- Use installations at County facilities to demonstrate leadership, learn the challenges and benefits of workplace charging

Weaknesses:

- Capacity to sort through ever-evolving technologies, brands, contract structures, maintenance needs

Threats:

- Fleet and employee EV charging needs may not be met at Justice Center and Public Works
- Lack incentive for EV drivers to use Jeremy Ranch Park and Ride

Questions?