EV ORDINANCE – COST ESTIMATES

About These Estimates

The tables below summarize local cost estimates for electric vehicle (EV) readiness infrastructure during new construction or major Level 3 alterations compared with standalone EV charger retrofit installations.

Key Considerations

Costs range substantially based on:

- Type of parking (surface vs. enclosed)
- Type of charger
- Number of chargers (economies of scale)
- Distance to electrical panel
- Other site plan elements

Type of chargers:

This ordinance focuses on Level 2 charging which is generally used in home, workplace, and public charging applications. Level 2 charging utilizes a 240V circuit, and can charge a typical EV with a 250-mile range in 9-10 hours.

Typical savings during construction:

Installation costs are lower during new construction or when paired with major renovations compared with during a stand-alone retrofit – ***typically 4-6 times less expensive.***[1]

Economies of scale:

The installation cost per space declines with the number of EV ready spaces per site due to economies of scale in materials, labor, etc. Installations of 6 or more chargers are estimated to cost ***30% less*** than installations of a single charger at a site.[2]

[1] Southwest Energy Efficiency Project
[2] International Council on Clean Transportation

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Multi-Family and Commerical - Cost Per Plug/Space

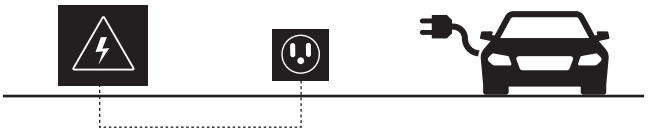
EV Readiness Level	New/Retrofit	Local Estimates[3]
EV Ready: (Panel capacity, conduit, wiring)	**New** – cost during construction	$750 – Wall mount in parking garage $2,000 – Pedestal mount on surface lot (30' from panel)
	Retrofit – Retrofit cost (when panel capacity exists)	$1,500 – Wall mount in parking garage $3,000 – Pedestal mount on surface lot (30' or less from panel) $10,000 – Pedestal mount on surface lot (50'+ from panel)
EVSE Installed: (Panel capacity, conduit, wiring and charger)	**New** – Cost during construction	$1,200 – Wall mount (typical non-networked charger) $3,000 – Pedestal mount on surface lot (non-networked charger with pedestal)
	Retrofit (when panel capacity exists)	$10,000 – Wall mount $12,000 – Pedestal mount on surface lot

Note: 6M in Ameren Missouri incentives are currently available to cover up to 50% of project costs or $5,000 per Level 2 charging plug installed; whichever is the lesser amount. Ameren Missouri must pre-approve project prior to construction.

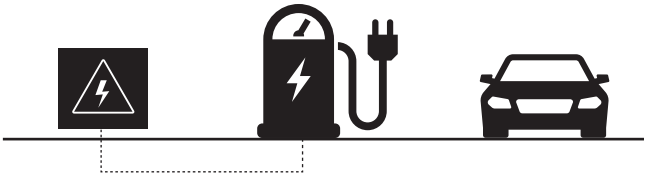
One to Four Family Residential - Cost for an EV Ready Plug/Space

New/Retrofit	Local Estimates *Cost ranges due to factors listed above
New – cost during construction (EV ready outlet) (Charger in garage and about 10' away from electrical service panel)	$380
Retrofit cost (when panel capacity exists)	$800 - $1,170

Definitions



EV Ready: Install electrical panel capacity and raceway with conduit to terminate in a junction box or 240-volt charging outlet (typical clothing dryer outlet).



EVSE (electric vehicle supply equipment) Installed: Install a minimum number of Level 2 EV charging stations.

[3] Estimates provided by Ameren Missouri and Clayco

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