City of Madison, EV Charging Ordinance

IREC Planning for EVs Meeting

October 10, 2023

Syed Abbas, Director of Education and Training| Slipstream

Oct 10th, 2023

Zoning Change

28.141(8)(e)

ELECTRIC VEHICLE CHARGING STATION REQUIREMENTS.

Parking facilities shall be designed and built to meet the following requirements:

28.141(8)(e)(1)

APPLICABILITY.

- Any new parking facility
- Any parking facility expanded by 50%, as measured in parking spaces being created after January 1, 2021.
- A parking facility may be maintained or reconstructed without triggering the requirements of this subdivision; however, where more than 10,000 square feet of the paving and base in place on January 1, 2021 is removed from an existing parking lot and new paving and base is installed, these requirements shall apply.

Zoning Requirements

28.141(8)(e)(2)

RESIDENTIAL STANDARDS.

Where 6 or more parking spaces are being provided for residential uses, the following standards must be met:

28.141(8)(e)(3)

NON-RESIDENTIAL STANDARDS.

Where parking is being provided for certain uses where people park in excess of six hours, as specified in this paragraph, the following standards must be met:

ELECTRIC VEHICLE CHARGING STATION REQUIREMENTS				
	RESIDENTIAL Spaces		NON-RESIDENTIAL Spaces	
YEARS	EV Ready	EV Installed	EV Ready	EV Installed
2021-2025	10%	2%	10%	1%
2026-2030	20%	4%	20%	2%
2031-2035	30%	6%	30%	3%
2036-2040	40%	8%	40%	4%
2041+	50%	10%	50%	5%
Application:	Where six or more parking spaces are being provided for residential uses		Where parking is being provided for certain uses where people park in excess of six hours	

28.141(8)(e)(3)(a)

Applies to these uses:

i. College, University or Similar Institutions of Higher Learning
ii. Hotel, Inn, Motel
iii. Hospital and Health Clinic
iv. Office
v. Parking Facility, Private and Public
vi. Schools, Arts, Technical or Trade
vii. Any other use where people are typically expected to park vehicles in excess of six hours except for those uses specified as not applicable

28.141(8)(e)(3)(b)

Does <u>Not</u> Apply to these uses:

i. Manufacturing
ii. Restaurants
iii. Retail
iv. Service Business
v. Warehousing and Storage

Example

EXAMPLE CALCULATIONS using the first tier 2021-2025 requirements:

RESIDENTIAL PARKING STRUCTURES AND LOTS						
Total Stalls in Lot	**6 Stalls**	**26 Stalls**	**50 Stalls**	**75 Stalls**	**100 Stalls**	**200 Stalls**
EV Ready 10% =	(0.6) = 1 space	(2.6) = 3 spaces	(5) = 5 spaces	(7.5) = 7 spaces	(10) = 10 spaces	(20) = 20 spaces
EV Installed 2%* =	(0.12) = 0 spaces	(0.52) = 1 space	(1) = 1 space	(1.5) = 1 space	(2) = 2 spaces	(4) = 4 spaces
*25 total stalls or less = No EV-Installed spaces required NOTE: Fractional space requirements of up to one-half space shall be rounded down to the next whole number; >1/2 rounds up to next whole number						

NON-RESIDENTIAL PARKING STRUCTURES AND LOTS						
Total Stalls in Lot	**6 Stalls**	**26 Stalls**	**50 Stalls**	**75 Stalls**	**100 Stalls**	**200 Stalls**
EV Ready 10% =	(0.6) = 1 space	(2.6) = 3 spaces	(5) = 5 spaces	(7.5) = 7 spaces	(10) = 10 spaces	(20) = 20 spaces
EV Installed 1%* =	(0.06) = 0 spaces	(0.26) = 0 space	(0.5) = 0 spaces	(0.75) = 1 space	(1) = 1 space	(2) = 2 stalls
*50 total stalls or less = No EV-Installed spaces required NOTE: Fractional space requirements of up to one-half space shall be rounded down to the next whole number; >1/2 rounds up to next whole number						

Thank You!

Syed Abbas
Slipstream

jabbas@slipstreaminc.org
608.572.6984