

ELECTRIC VEHICLE READY CODE PROJECT

PSC Work Session October 11, 2022

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THE BUREAU OF PLANNING & SUSTAINABILITY

EV Ready Code Work Session Agenda



- Proposal Overview
- Testimony Highlights
- PSC Questions Issues
 - Chargers/Equipment in Landscaping
 - E-Bike Charging
 - Staff Technical Amendment
- Discussion
- Direction for Staff
- Next Steps

Background – Local / State Direction

- Climate Emergency Work Plans / Declarations/ Strategy
- 2035 Comprehensive Plan / TSP
- HB 2180 / State Building Code
- DLCD Climate Friendly & Equitable Communities Rulemaking





Climate Emergency Declaration One-Year Progress Report (Resolution No. 37494) July 29, 2021



2035 Comprehensive Plan







Project Key Proposals

5 amendments highlighted at 9/13 hearing

- 1. Minimum EV-ready requirements for new development that has 5 or more dwelling units (50%, up to 100% for smaller parking lots)
- 2. Development Standards for chargers and equipment
- 3. Clarify when charging is accessory or primary use
- 4. EV incentive for structured parking
- 5. Non-conforming threshold exemption



What's the State's deadline?

Portland has until **March 31, 2023**, to adopt necessary changes into our zoning code.

Cities that do not meet the deadline must apply the State requirements directly.





Testimony Highlights

Testimony: 3 "in person", 9 via MapApp

- 1. General support for proposal
- 2. Flexibility for charger/equipment placement in parking lot landscaping
- 3. Consideration for E-bike charging as part of project (support and concern)



PSC Q & A

Staff released Q & A for PSC review

- 1. Why a higher percentage than state?
- 2. Impacts on minimum parking
- 3. Impacts on spatial layout of parking/landscaping
- 4. Accommodation for E-bikes
- 5. Impacts on the cost of housing/affordable housing
- 6. Consideration for ADA accessibility



PSC Discussion Topics

Potential Discussion Items

- 1. Electric Vehicle (EV) chargers and equipment in perimeter landscaping areas
- 2. Electric Bike (e-bike) charging issues minimum requirements and other issues
- 3. BPS Technical Amendment re: car sharing bonus



EV Chargers & Equipment perimeter landscaping

Not an issue in structured parking







EV Chargers & Equipment perimeter landscaping

Surface parking alternatives







EV Charging & Equipment perimeter landscaping









EV Charging & Equipment perimeter landscaping

Outside required perimeter – BDS implementation

SUSTAINABILITY



PSC Discussion

Electric vehicle chargers and equipment in perimeter landscaping areas

	Charger	Equipment
Staff Proposal	Charger not allowed in perimeter landscaping setback. Can be adjusted.	Equipment not allowed in perimeter landscaping setback. Can be adjusted.
Option	Charger allowed in perimeter landscaping setback or partially project into setback (2-ft)	Equipment not allowed in perimeter landscaping setback. Can be adjusted.



Relevant Background Info:

- Proposal focus has been on automobiles.
- Long-term bike parking code recently updated to include outlets (2020).
- Outlets not required in current project.
- Project intent: avoid expensive after construction costs.
- Testimony focus: short-term e-bike parking.



Differences between EV charging and E-bike charging

Issue	Auto EV Charging Equipment	E-bike Charging Equipment
Engagement / Outreach	Outreach and communication was done at state and local level for EVs (HB, Building Code, DLCD, local engagement)	No outreach at any level to stakeholders or businesses. Impact to businesses is unknown
Infrastructure	Complicated electric capacity and infrastructure considerations	Doesn't generally require additional electrical capacity or conduit
Expense	Future retrofits expensive	Future retrofits not expensive and based upon specific situation
Voltage	240 V	120 V
Battery	Batteries stay with vehicle, not easily removable.	Batteries often removable / swappable
Parking Location	In standard parking lots	Variety of bicycle parking areas including the public ROW
Theft risks	Cord generally attached to charger.	Short-term not secure need to bring cord and charger.



Short-term bike parking placement – range of options





Short-term bike parking placement – range of options





PSC Discussion

Electric Bike (e-bike) charging issues – addressing other issues

- Non-conforming exemption for e-bike charging nested within EV charging (note bike parking is a listed upgrade, but EV charging is not)
- Conditional use clarification to include E-bike chargers w/ bike parking to not trigger review. (note exemption already applies generally to bike parking improvements)



PSC Discussion

BPS Amendments re: car sharing parking exemption

Staff suggests removing proposed language to minimum parking exemption that adds an EV requirement to the current car sharing provision.

This entire section is planned for removal to comply with DLCD's Climate Friendly and Equitable Communities rulemaking that encourage removal of all parking minimum mandates.

- $f. \cdot \rightarrow Car-sharing \cdot parking \cdot spaces \cdot may \cdot substitute \cdot for \cdot required \cdot parking \cdot if \cdot all \cdot of \cdot the \cdot following \cdot are \cdot met: \P$
 - (1) → For·every·car-sharing·parking·space·that·is·provided,·the·motor·vehicle·parking· requirement·is·reduced·by·2·spaces,·up·to·a·maximum·of·25·percent·of·the· required·parking·spaces;¶
 - $(2) \rightarrow The \cdot car sharing \cdot parking \cdot spaces \cdot must \cdot be \cdot shown \cdot on \cdot the \cdot building \cdot plans; \cdot \P$
 - (3) → The-car-sharing-parking-space-must-provide-at-least-a-Level-2-electric-vehiclecharger;-and¶
 - (42)+A·copy·of·the·car-sharing·agreement·between·the·property·owner·and·the·carsharing·company·must·be·submitted·with·the·building·permit.¶



Recap

PSC Direction

Direct Staff on any of these amendments for consideration

On October 25: Staff is requesting that the Planning and Sustainability Commission:

Approve any amendments from today, and

Recommend that City Council:

- Adopt this report.
- Amend Zoning Code Chapter 33.266, Parking and Loading, and other sections of Title 33 as listed in the Proposed Draft.





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Portland EV Ready Code Project Timeline/Next Steps

Milestones	Dates
Proposed Draft Release	8/09/22
and Notice	
PSC Briefing and Hearing	9/13/22
PSC to close written	9/16/22
testimony	
PSC Comments Due	9/21/22
PSC Worksession	10/11/22
PSC Worksession #2 and	10/25/22
Recommendation	
Recommended Draft	December 2022
release and notice	
City Council Hearing	January 2023

Note: These dates are estimates and are subject to change.



E-bike short-term parameters

- Threshold (# of short-term spaces) to trigger requirement?
- Plug requirement or conduit w/ future plug access?
- Percentage of spaces that should have access to plug or conduit
- Does this apply to new construction only or to retrofits too?
- If retrofits, what would be the threshold?
 - General nonconforming upgrade amount like general short-term bike parking?
 - Major remodel projects (a similar threshold applies to nonconforming long-term bike parking)
- Security, compliance or access provisions?



State Definition of "EV-Ready Infrastructure"

State's compliance options include the following:

- Newly constructed buildings identified in section (2) are required to install electric vehicle charging station infrastructure consisting of a conduit system and at least one of the following options:
- (a) Provision of building electrical service, sized for the anticipated load of electric vehicle charging stations, that has overcurrent devices necessary for electric vehicle charging stations or has adequate space to add overcurrent devices;
- (b) A designated space within a building to add electrical service with capacity for electric vehicle charging stations; or
- (c) A designated location on building property, in or adjacent to a landscaped area, for installing remote service for electric vehicle charging stations.



E-Bike Requirement Considerations:

- Less expensive to add outlet for e-bikes post construction
- Batteries often detached or swapped to charge.
- Many businesses pay into the bike fund and do not provide short-term bike parking on site.
- Outreach has not been done to businesses/stakeholders so the impact on businesses management of outlets is unknown.
- Short-term bike parking is not secure, and chargers/cords are at risk of being stolen.

