

SUMMARY OF TRANSPORTATION AND CONNECTIVITY ADVISORY BOARD ACTION

Subject: Petition to add Electric Vehicle Ready Requirements to the LUMO

Meeting Date: May 22, 2018

Recommendation: The Transportation and Connectivity Advisory Board petitions the Town Council to start a process to amend the Land Use Management Ordinance (LUMO) to add Electric Vehicle Ready requirements. The Board has research and developed the text below for new developments:

EV Ready Requirementsⁱ

These requirements apply to new or expanded parking lots and parking structures. They are not required retroactively for existing parking lots.

1. In parking lots with more than 50 spaces, EV charging stations installed in at least 3% of all parking spaces used by the project.
 - Minimum of two EV charging station parking spaces for each project. One of which must be ADA compliant, per NCDOT's guidelines.
 - Provide a Level 2 charging capacity (208 – 240 volts) or greater
 - Comply with the relevant regional or local standard for electrical connectors, such as SAE Surface Vehicle Recommended Practice J1772, SAE Electric Vehicle Conductive Charge Coupler so that they are compatible with all types of chargers
 - EV charging station spaces must be separate from and in addition to preferred parking spaces for green vehicles
2. Signage for parking of electric vehicles shall include:
 - Information on the charging station to identify voltage and amperage levels and any time of use, fees, or safety information.
 - As appropriate, directional signs to effectively guide motorists to the charging station space(s).
 - Station(s) reserved for electric vehicles
3. 20% of all total parking spaces will be made "EV Ready" for charging stations, meaning:
 - Installation of dedicated electrical circuit and underground conduit required to run electricity to EV charging spot
 - Electrical panels labeled "EV Ready"

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Vote: 8-0

Ayes: Paul Neebe (Chair), Jason Merrill (Vice Chair), Eric Allman, Heather Brutz, Brian Hageman, Josh Kastrinsky, Susanne Kjemtrup-Lovelace, and Ignacio Tzoumas

Nays: none

Prepared by: Paul Neebe, Chair, Transportation and Connectivity Advisory Board
Kayla Seibel, Planner II

References

- <https://www.chargepoint.com/blog/contractors-guide-ev-ready-building-codes/>
- <http://www.transportationandclimate.org/ev-ready-codes-built-environment>
- <https://www.usgbc.org/credits/new-construction-core-and-shell-schools-new-construction-retail-new-construction-healthca-25>
- http://www.b3mn.org/guidelines2-2/s_12.html
- Full Electric Vehicle Ordinance Text
 - <http://www.codepublishing.com/WA/MountlakeTerrace/html/MountlakeTerrace19/MountlakeTerrace19126.html#19.126.070>
- Siting and Design Guidelines for Electric Vehicle Supply Equipment
 - http://www.transportationandclimate.org/sites/default/files/EV_Siting_and_Design_Guidelines.pdf
- <http://files.masscec.com/research/WatertownCleanEnergyRoadmap.pdf>
- <http://www.theenergycollective.com/greatplainsinstitute/2417956/making-city-ev-ready>
- Reducing Barriers to Electric Vehicle Adoption through Building Codes
 - <https://aceee.org/files/proceedings/2012/data/papers/0193-000012.pdf>
- Page 90
 - <https://www.ladbs.org/docs/default-source/publications/misc-publications/2010-ca-green-building-standards-code.pdf?sfvrsn=11>
- Creating EV-Ready Towns and Cities: A Guide to Planning and Policy Tools
 - http://www.transportationandclimate.org/sites/default/files/EVSE_Planning_and_Policy_Tool_Guide.pdf
- City of Palo Alto - EV Code
 - <https://www.cityofpaloalto.org/civicax/filebank/documents/42838>

ENVIRONMENTAL STEWARDSHIP ADVISORY BOARD

The charge of the environmental stewardship advisory board will be to assist the Chapel Hill Town Council in strengthening environmentally responsible practices that protect, promote and nurture our community and the natural world through advice and program support.

RECOMMENDATION TO SUPPORT TRANSPORTATION AND CONNECTIVITY ADVISORY BOARD PETITION TO COUNCIL REGARDING EV READINESS

June 12, 2018

Motion: Tom Henkel moved and Greg Ames seconded a motion to strongly endorse and support the Transportation and Connectivity Advisory Board's petition to Council, as written.

Vote: 8-0

Yeas: John Wallace (Chair), Tom Henkel (Vice-Chair), Adrienne Tucker
Bruce Sinclair, Gregory Ames, Heidi Kim, Hui Ding and Mary Metcalf

Nays:

Conditions:

- None.

Special Considerations:

- None.

Prepared by: John Wallace, Chair, Environmental Stewardship Advisory Board
John Richardson, Community Resilience Officer, Staff Liaison to ESAB