

# E-Micromobility Policy Recommendations

*The information below has been assembled based on research completed by the East Tennessee Clean Fuels Coalition and Drive Electric Tennessee, with help from partners and stakeholders. This document is meant to be used for reference when developing organizational policies. E-micromobility is defined as “any small, low-speed, electric-powered transportation device, including electric-assist bicycles (e-bikes), electric scooters (e-scooters), and other small, lightweight, wheeled electric-powered conveyances.”<sup>1</sup>*

## Identified Issue: Charging e-micromobility devices can create potential hazards.

### Considerations

Proper charging and storage for e-micromobility devices is necessary for the safety of not only users but those around them as well. Public knowledge and understanding of the policies you enact will help ensure long-term success. Users need to have a clear understanding of the expectations and options available to them.

### Recommendations

- It is not recommended to charge e-micromobility devices indoors, but this will be entirely up to the policymaker. Devices should never be left unattended or left to charge overnight if they are being charged indoors<sup>2</sup>.
- To encourage outdoor charging, it is helpful to provide a secure, dedicated charging station. Charging should not be allowed near pedestrian paths or in direct sunlight<sup>3</sup>.
- Charging stations can be open to the public or private (e.g., user pays a fee and is guaranteed a charging spot).
- Another consideration is the level of security offered, who will have access to the station, and how access is acquired.
- Examples of publicly available charging and storage options include the Oone Mini<sup>4</sup>, Terra Bound Solutions<sup>5</sup>, or BeamBike<sup>6</sup>. See links below for each.
- Only allow e-micromobility devices that are UL (Underwriters Laboratory) certified under UL 2849, UL 2272, or UL2271.<sup>7</sup> UL certifications signify that products meet certain safety standards and are designed in accordance with specific national or international requirements<sup>8</sup>.
- When planning for e-micromobility charging stations, develop materials for implementation in your area, and make sure the public education campaign includes clear, accessible information.

<sup>1</sup> <https://www.transportation.gov/rural/electric-vehicles/ev-toolkit/electric-micromobility>

<sup>2</sup> [https://www.fdnysmart.org/wp-content/uploads/2024/07/Ebike\\_Guidance\\_v7.pdf](https://www.fdnysmart.org/wp-content/uploads/2024/07/Ebike_Guidance_v7.pdf)

<sup>3</sup> <https://www.hanover.com/businesses/business-customer-resources/hanover-risk-solutions/property-protection-and-life-safety>

<sup>4</sup> <https://www.oonee.us/mini>

<sup>5</sup> <https://www.terraboundsolutions.com/product/e-bike-charging-rack/>

<sup>6</sup> <https://beamforall.com/product/beambike/>

<sup>7</sup> <https://www.ul.com/services/personal-e-mobility-evaluation-testing-and-certification>

<sup>8</sup> <https://www.factoredquality.com/resource/all-you-need-to-know-about-ul-certifications>

## Identified Issue: Messaging about safe e-micromobility practices needs clarity.

### Considerations

It is important to create a safe space for e-micromobility users and ensure that safety information and expectations are widely available. Researchers have found that when cyclists break the law, it is a self-protective response to unsafe conditions. The same is true of e-micromobility users. This is often done to compensate for the lack of infrastructure designed for the mode of transportation.

### Recommendations

- Create designated micromobility lanes and clearly mark them.
- Develop concise guidelines regarding e-micromobility use and expectations, including whether or not the devices can be used on sidewalks or the road if no designated areas exist, creating dismount zones in heavy pedestrian areas, etc<sup>9</sup>.
- Share signage<sup>10</sup> and public education materials about e-micromobility policy changes.
- If there are no local laws pertaining to where e-micromobility devices can operate, make sure that state laws are taken into consideration. For Tennessee bicycle laws, please scan the QR code below.
- If there are no local helmet laws, make sure residents are aware of state laws and requirements. For Tennessee helmet laws, please scan the QR code below.

These recommendations and the policies that follow will take time and effort. It would be worth it to form a committee to work on developing the best practices for your city/campus to help streamline the process and better promote successful implementation.



For more information regarding TN bicycle and helmet laws, please scan the QR code.



<sup>9</sup> <https://transalt.org/blog/e-micromobility-faq>

<sup>10</sup> [https://mutcd.fhwa.dot.gov/kno\\_11th\\_Edition.htm](https://mutcd.fhwa.dot.gov/kno_11th_Edition.htm)

