

GENERAL ASSEMBLY OF NORTH CAROLINA
SESSION 2025

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SENATE BILL DRS45268-MW-66

Short Title: E-Bike Definition and Local Regulation. (Public)

Sponsors: Senators Lee and Lazzara (Primary Sponsors).

Referred to:

A BILL TO BE ENTITLED
AN ACT TO CLARIFY THE DEFINITION OF ELECTRIC ASSISTED BICYCLE AND TO
AUTHORIZE LOCAL GOVERNMENT REGULATION.

The General Assembly of North Carolina enacts:

SECTION 1. G.S. 20-4.01(7a) reads as rewritten:

"(7a) Electric Assisted Bicycle. – A bicycle with two or three wheels that is equipped with a seat or saddle for use by the rider, fully operable pedals for human propulsion, and an electric motor of no more than 750 watts, whose maximum speed on a level surface when powered solely by such a motor is no greater than 20 miles per hour, watts that meets the requirements of one of the following three classes:

- a. Class 1 electric assisted bicycle. – A bicycle equipped with a motor that provides assistance only when the rider is pedaling and ceases to assist once the bicycle reaches a speed of 20 miles per hour.
- b. Class 2 electric assisted bicycle. – A bicycle equipped with a motor that may propel the bicycle without pedaling but ceases to assist once the bicycle reaches a speed of 20 miles per hour.
- c. Class 3 electric assisted bicycle. – A bicycle equipped with a motor that provides assistance only when the rider is pedaling and ceases to assist once the bicycle reaches a speed of 28 miles per hour."

SECTION 2. Article 3 of Chapter 20 of the General Statutes is amended by adding a new section to read:

"§ 20-171.3. Electric bicycles.

(a) Except as otherwise provided in G.S. 160A-300.2 and G.S. 153A-245.1, the operation of an electric assisted bicycle as defined in G.S. 20-4.01 shall be permitted on all roadways, bicycle lanes, and shared-use paths.

(b) A person operating or riding as a passenger on a Class 3 electric assisted bicycle shall wear a helmet that meets federal safety standards."

SECTION 3.(a) Article 15 of Chapter 160A of the General Statutes is amended by adding a new section to read:

"§ 160A-300.2. Electric bicycles.

(a) A city may regulate the use of electric assisted bicycles on any street, road, or highway within municipal limits. This authority shall include the following:

- (1) Restricting the use of a class or classes of electric assisted bicycles on multiuse paths, sidewalks, or trails.
- (2) Establishing speed limits on greenways or shared-use paths.



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1 (b) A city may require the use of a helmet by a person operating or riding as a passenger
2 on a Class 1 or Class 2 electric assisted bicycle.

3 (c) A city may impose penalties for violations of this section."

4 **SECTION 3.(b)** Article 12 of Chapter 153A of the General Statutes is amended by
5 adding a new section to read:

6 **"§ 153A-245.1. Regulation of electric bicycles.**

7 A county may regulate the use of an electric assisted bicycle in accordance with
8 G.S. 160A-300.2. Nothing in this section shall be deemed to restrict or repeal the authority of a
9 city to regulate the use of an electric assisted bicycle."

10 **SECTION 4.** The Department of Transportation shall develop educational materials
11 on the proper use and safety considerations of electric assisted bicycles.

12 **SECTION 5.** This act is effective when it becomes law and applies to all electric
13 assisted bicycle riders and passengers on or after that date.