1	S.66
2	Introduced by Senators Campion and Westman
3	Referred to Committee on Transportation
4	Date: February 5, 2021
5	Subject: Motor vehicles; electric bicycles; e-bikes; motor assisted; motor-
6	assisted bicycle; municipalities
7	Statement of purpose of bill as introduced: This bill proposes to define and
8	regulate three classes of electric bicycles.
9	An act relating to electric bicycles
10	It is hereby enacted by the General Assembly of the State of Vermont:
11	Sec. 1. 23 V.S.A. § 4(18)(A) is amended to read:
12	(18)(A) "Motorcycle" shall mean means any motor vehicle having a
13	seat or saddle for the use of the rider and designed to travel on not more than
14	three wheels in contact with the ground, and shall include includes autocycles
15	but exclude excludes motor-driven cycles, motor-assisted bicycles, electric
16	bicycles, golf carts, track driven vehicles, tractors, and electric personal
17	assistive mobility devices.
18	Sec. 2. 23 V.S.A. § 4(21) is amended to read:

(21) "Motor vehicle" shall include includes all vehicles propelled or drawn by power other than muscular power, except farm tractors, vehicles running only upon stationary rails or tracks, motorized highway building equipment, road making appliances, snowmobiles, or tracked vehicles, motorassisted bicycles, electric bicycles, or electric personal assistive mobility devices.

Sec. 3. 22 V.S. A. & 1(15) is amonded to read

(45)(A) "Motor-driven cycle" means any vehicle equipped with two or three wheels, a power source providing up to a maximum of two brake horsepower and having a maximum piston or rotor displacement of 50 cubic centimeters if a combustion engine is used, which will propel the vehicle, unassisted, at a speed not to exceed 30 miles per hour on a level road surface, and which is equipped with a power drive system that functions directly or automatically only, not requiring clutching or shifting by the operator after the drive system is engaged. As motor vehicles, motor-driven cycles shall be subject to the purchase and use tax imposed under \$2 V.S.A. chapter 219 rather than to a general sales tax. Neither an electric Electric personal assistive mobility device nor a devices, motor-assisted bieyele is a bicycles, and electric bicycles are not motor-driven eyele cycles.

(B)(i) "Motor-assisted bicycle" means any bicycle or tricycle with fully operable pedals and equipped with a an internal combustion motor than

1	(I) has a power output of not more than 1,000 watts or 1.3
2	horsepower, and
3	(II) in itself is capable of producing a top speed of no not more
4	than 20 miles per hour on a paved level surface when ridden by an operator
5	who weighs 170 pounds.
6	(ii) Motor-assisted bicycles shall be regulate 1 in accordance with
7	section 1136 of this title.
8	(iii) Electric bicy class are not motor assisted bicy class.

Sec. 3. 23 V.S.A. § 4(45) is amended to read:

- (45)(A) "Motor-driven cycle" means any vehicle equipped with two or three wheels, a power source providing up to a maximum of two brake horsepower and having a maximum piston or rotor displacement of 50 cubic centimeters if a combustion engine is used, which will propel the vehicle, unassisted, at a speed not to exceed 30 miles per hour on a level road surface, and which is equipped with a power drive system that functions directly or automatically only, not requiring clutching or shifting by the operator after the drive system is engaged. As motor vehicles, motor-driven cycles shall be subject to the purchase and use tax imposed under 32 V.S.A. chapter 219 rather than to a general sales tax. Neither an electric Electric personal assistive mobility device nor a devices, motor-assisted bicycle is a bicycles, and electric bicycles are not motor-driven cycles.
- (B)(i) "Motor-assisted bicycle" means any bicycle or tricycle with fully operable pedals and equipped with a motor that in itself is capable of producing a top speed of not more than 20 miles per hour on a paved level surface when ridden by an operator who weighs 170 pounds and either:
- (I) has an internal combustion motor with a power output of not more than 1,000 watts or 1.3 horsepower; and or
- (II) in itself is capable of producing a top speed of no more than 20 miles per hour on a paved level surface when ridden by an operator who weighs 170 pounds has an electric motor with a power output of not more than 1,000 watts and does not meet the requirements of one of the three classes in subdivisions (46)(A)(i)–(iii) of this section.

	(ii) Motor-assisted bicycles shall be regulated in accordance with section 1136 of this title.
	(iii) Electric bicycles, as defined in subdivision (46) of this section, are not motor-assisted bicycles, as defined in subdivision (45) of this section.
1	Sec. 4. 23 V.S.A. § 4(46) is added to read:
2	(46)(A) "Electric bicycle" means a bicycle equipped with fully operable
3	pedals, a saddle or seat for the rider, and an electric motor of less than
4	750 watts that meets the requirements of one of the following three classes:
5	(i) "Class 1 electric bicycle" means an electric bicycle equipped
6	with a motor that provides assistance only when the rider is pedaling and that
7	ceases to provide assistance when the bicycle reaches the speed of 20 miles per
8	hour.
9	(ii) "Class 2 electric bicycle" means an electric bicycle equipped
10	with a motor that may be used exclusively to propel the bicycle and that is not
11	capable of providing assistance when the bicycle reaches the speed of 20 miles
12	per hour.
13	(iii) "Class 3 electric bicycle" means an electric bicycle equipped
14	with a motor that provides assistance only when the rider is pedaling and that
15	ceases to provide assistance when the bicycle reaches the speed of 28 miles per
16	hour.
17	(B) An electric bicycle is not a motor vehicle and is a vehicle to the
18	same extent that a bicycle is a vehicle.

1	(C) Electric bicycles shall be regulated in accordance with section
2	1136a of this title.
3	Sec. 5. 23 V.S.A. § 4(81) is amended to read:
4	(81) "Vulnerable user" means a pedestrian; an operator of highway
5	building, repair, or maintenance equipment or of agricultural equipment; a
6	person operating a wheelchair or other personal mobility device, whether
7	motorized or not; a person operating a bicycle or other nonmotorized means of
8	transportation (such as roller skates, rollerblades, or roller skis); a person
9	operating a motor-assisted bicycle or an electric bicycle; or a person riding,
10	driving, or herding an animal.
11	Sec. 6. 23 V.S.A. § 1136a is added to read:
12	§ 1136a. ELECTRIC BICYCLES
13	(a) Except as provided in this subsection, electric bicycles shall be
14	governed as bicycles under Vermont law, and operators of electric bicycles
15	shall be subject to all of the rights and duties applicable to bicyclists under
16	Vermont law.
17	(b) Electric bicycles and their operators shall be exempt from:
18	(1) motor vehicle registration, inspection, and certificate of title
19	requirements under chapter 7 of this title, section 1222 of this title, and
20	chapter 21, subchapter 2 of this title;

1	(2) operator's license requirements under chapter 9, subchapter 1 of this
2	title;
3	(3) financial responsibility requirements under chapter 11 of this title;
4	and
5	(4) requirements applicable to all-terrain vehicles under chapter 31 of
6	this title.
7	(c) An electric bicycle shall comply with the equipment and manufacturing
8	requirements for bicycles promulgated by the U.S. Consumer Product Safety
9	Commission, including 16 C.F.R. Part 1512 as may be amended, and may only
10	be operated in such a way that the electric motor is disengaged or ceases to
11	function when the operator stops pedaling or applies the brakes.
12	(d) A class 3 electric bicycle shall be equipped with a speedometer that
13	displays the speed the bicycle is traveling in miles per hour.
14	(e)(1) An electric bicycle may be ridden in places where bicycles are
15	allowed, including highways, bicycle lanes, and bicycle or multiuse paths.
16	(2) Following notice and a public hearing, a municipality, local
17	authority, or State agency having jurisdiction over a bicycle or multiuse path
18	may prohibit the operation of a class 1 electric bicycle or class 2 electric
19	bicycle on that path if it finds that such a restriction is needed for safety
20	reasons or compliance with other laws or legal obligations.

1	(3) A municipality, local authority, or State agency having jurisdiction
2	over a bicycle or multiuse path may prohibit the operation of a class 3 electric
3	bicycle on that path.
4	(4) This subsection shall not apply to a trail that is specifically
5	designated as nonmotorized and that has a natural surface tread that is made by
6	clearing and grading the native soil with no added surfacing materials. A
7	municipality, local authority, or State agency having jurisdiction over a trail
8	described in this subdivision may regulate the use of an electric bicycle on that
9	<u>trail.</u>
10	(f) An individual under 16 years of age shall not operate a class 3 electric
11	bicycle but may ride as a passenger on a class 3 electric bicycle that is
12	designed to accommodate passengers.
13	Sec. 7. 23 V.S.A. § 1136a(g) and (h) are added to read:
14	(g) Manufacturers and distributors of electric bicycles shall apply a label
15	that is permanently affixed, in a prominent location, to each electric bicycle.
16	The label shall contain the classification number, top assisted speed, and motor
17	wattage of the electric bicycle and shall be printed in Arial font in at least 9-
18	point type.
19	(h) A person shall not tamper with or modify an electric bicycle so as to
20	change the motor-powered speed capability or engagement of an electric

bicycle unless the label indicating the classification required in subsection (g) 1 2 of this section is replaced after modification. 3 Sec. 8. 23 V.S.A. § 3501(1) is amended to read: 4 (1) "All-terrain vehicle" or "ATV" means any nonhighway recreational 5 vehicle, except snowmobiles, having not less than two low pressure tires 6 (10 pounds per square inch, or less), not wider than 64 inches with two-wheel 7 ATVs having permanent, full-time power to both wheels, and having a dry 8 weight of less than 2,500 pounds, when used for cross-country travel on trails 9 or on any one of the following or a combination thereof: land, water, snow, 10 ice, marsh, swampland, and natural terrain. An ATV on a public highway 11 shall be considered a motor vehicle, as defined in section 4 of this title, only for the purposes of those offenses listed in subdivisions 2502(a)(1)(H), (N), 12 13 (R), (U), (Y), (FF), (GG), (II), and (AAA); (2)(A) and (B); (3)(A), (B), (C), 14 and (D); (4)(A) and (B); and (5) of this title and as provided in section 1201 of 15 this title. An ATV shall does not include an electric personal assistive mobility tic bioget, a motor-assisted bicycle, or an electric bicycle. 16 device 17 Sec. 9. 23 V.S.A. § 3801(1) is amended to read: 18 (1) "All-terrain vehicle" or "ATV" means any nonhighway recreational 19 vehicle, except snowmobiles, *motor-assisted bicycles*, or electric bicycles, 20 when used for cross-country travel on trails or on any one of the following or a

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- 1 combination thereof: land, water, snow, ice, marsh, swampland, and natural
- 2 terrain.
- 3 Sec. 10. EFFECTIVE DATES
- 4 (a) Sec. 7 (electric bicycle labeling requirements; 23 V.S.A. § 1136a(g) and
- 5 (h)) shall take effect on January 1, 2022.
- 6 (b) All other sections shall take effect on July 1, 2021.