

# Electronic Recreational Devices

- Bikes
- Scooters
- Skateboards/hover boards
- Unicycles
- “Micro Mobility Device”



# E-Bikes

Many Shapes & Sizes  
 Industry + States = Classifications  
 Unclassified = Unregulated



## Overview of the 3-Class System for E-bikes

	Characteristics		Regulations
<b>Class 1 E-bike</b>	Provides Assistance:	Only when pedaling	Generally treated like a standard bicycle.
	Top Assisted Speed:	20 mph	
<b>Class 2 E-bike</b>	Provides Assistance:	When pedaling or by throttle	Generally treated like a standard bicycle. May be restricted from shared use paths or trails.
	Top Assisted Speed:	20 mph	
<b>Class 3 E-bike</b>	Provides Assistance:	Only when pedaling	More likely to be restricted from shared use paths or trails. May require use of a helmet, have minimum age requirements, or be subject to other regulation.
	Top Assisted Speed:	28 mph	

# PEVs: Personal Electric Vehicles

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## 12000w MadBossBike


\$5,995.00

Push the limits with the MadBossBike 72V 12000W Electric Bike. Built for extreme performance, it features a 12000W motor, advanced suspension, and rugged design – perfect for off-road adventures and high-speed thrills.

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Category: Uncategorized

# PEVs: Personal Electric Vehicles

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## New Hampshire Vehicle Registration and License Fees Effective 04/22/2024

<u>Vehicle</u>	<u>Registration</u>	<u>License</u>	<u>Operator Age</u>	<u>Horsepower</u>	<u>Max Powered Speed</u>
Bicycle	None	None	Any	0.25	n/a
E-Bike	None	None	Any, Class 1 & 2	1.0	20
Moped	\$3.00	\$8.00	16	2.0	30
Scooter	Local	\$5.00	16	5.0	20
Motor-driven cycle	\$5.00	\$55.00	16	5.0	Open
Pocket Bike	\$15.00	Drvr or Safety	16	3-7	50
Trail Bike	\$80.00	Drvr or Safety	12	19	Open
Motorcycle	\$15.00	\$30.00	16	10-220	Open
OHRV	\$72.00	Drvr or Safety	12	90	45
OCEV / PEV	None	None	Any	16	60
PEV Unicycles	None	None	Any	13	60

# PEVs: Personal Electric Vehicles

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- “Electric motorcycles” are being sold as if bicycles or true e-bikes.
- **E-bikes: Three classes, none to exceed a one HP (750 watt) motor with a maximum motor-only speed of 20 MPH.**
- **Other PEVs, e-motorcycles, scooters, skateboards, and unicycles capable of reaching 60 MPH are on roads, paths, and rail trails.**
- **Any cycle exceeding one HP or the 20 MPH motor-only speed is called an “Out-of-Class Electric Vehicle” (OCEV) by the bicycle industry.**



# PEVs: Personal Electric Vehicles

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- Most reputable manufacturers define these machines as “Off-Highway Recreational Vehicles” (OHRV)
- Some OCEVs have motors up to 16 HP rated at 12,000 watts and can achieve speeds of 60 MPH but because they have pedals, they are being sold as if E-bikes. (The pedals only serve as foot rests.)
- Current Electric Unicycles (EUCs) have speeds up to 60 MPH.



# PEVs: Personal Electric Vehicles

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- **Current NH RSAs define mopeds, scooters, motor-driven cycles and motorcycles, all requiring registration and a licensed or trained operator**
- **Because OCEVs are incorrectly viewed as E-bikes, no registration, operator license or safety training is currently required.**
- **OCEVs / PEVs are being used on public roads, multi-use bike-ped paths and rail trails causing problems. Most rail trails ban motorized vehicles and Class 3 E-bikes but with little to no enforcement.**
- **OCEVs/ PEVs are actually electric motor vehicles that are not regulated in NH therefore, no enforcement is possible.**

# **Personal Electric Vehicles Legislation: HB 715**

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- **Define (>1 HP) and regulate OCEV / PEV sales, operation, and registration**
- **Develop / implement a Safety Certification Program via NHDMV for anyone over 12 years of age**
- **Speed Limit: 5 mph on sidewalks, walking trails; 18 mph on public hiking trails, bike trails, rail trails**
- **Reflective outerwear after dark; headlight and tail light day & night.**
- **Protective head gear on < 16 year olds**



# **Personal Electric Vehicles Legislation: HB 715**

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- **PEV retailers to post signage and inform customers about the device classification and legal areas of use**
- **Electric unicycles (EUCs) shall be viewed as E-bikes, not motor vehicles**
- **PEVs shall be exempt from the \$100 EV surcharge if registration is required**
- **Reflective outerwear after dark; white headlight and blinking red tail light required day and night**
- **Operator education, courtesy, common sense and trail etiquette are more important than the maximum speed attainable on a PEV**