

What are other nations doing?

Nations (with ebike embracing governments) are not ignoring the data.

One of the key drivers for the ebike market's growth worldwide is the increasing concern of air pollution, traffic congestion, climate change and the rising costs of gas-powered transportation. Furthermore, this shift in awareness is a result of supportive governmental policies and tax incentivizing programs. Nations, such as China, The Netherlands and Germany currently dominate the ebike industry, having spent years developing a strong eco-friendly transportation campaign.



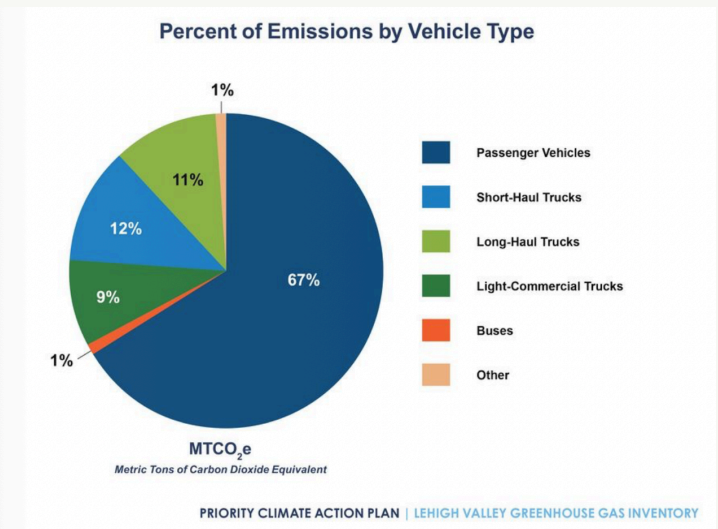
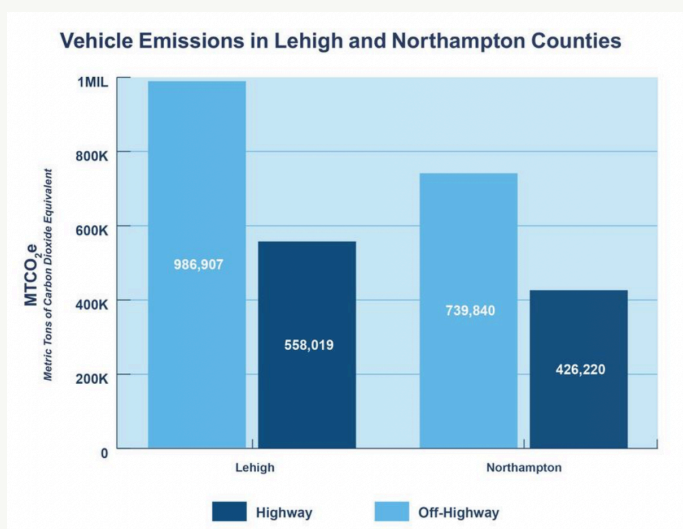
THE BENEFITS OF ADOPTING E-BIKE TRANSPORTATION



#1 ENVIRONMENTAL IMPACT:

The Environmental Protection Agency states that 41% of greenhouse gases are emitted by vehicles. The guardian report states that the carbon footprint for a new car range from 6 tons a Citroen C1 to 35 tons a Land Rover Discovery. Consequently, single occupant vehicles usage heightens in rural areas, stating that 50% of families own 2 or more cars. The good news is that in England alone, the Transport Policy estimates that the use of e-bikes could reduce CO2 emissions by 24.4 million tons.

In the Lehigh Valley Planning Commission's Priority Climate Action Plan, a comprehensive study has been completed on vehicle's emission impact to our environment.



In the Lehigh Valley, 75.1% of greenhouse gas emissions are from gas, 24.5% diesel and 0.4% other fuel types.

#2 HEALTHY ALTERNATIVE:

Biking hosts numerous health benefit, such as complications caused by obesity and depression. In a 14.5-year study in Copenhagen, Denmark found that biking to work or on leisurely rides (on average 3 hours per week) decreased the mortality rate by approximately 40% compared to those who did not commute by cycling.



#3 MOST ECONOMICAL TRANSPORTATION:

Foregoing a car can save you over \$6,000 a year in the U.S., posted in Tern on March 21, 2024.



Operating Costs for a 10-Mile Round Trip

	Car (Medium Sedan)
Fuel	\$1.44 ¹
Maintenance, Repair, & Tires	\$1.10 ³
On-street, 1-hour parking	\$1.77 ⁵
TOTAL	\$4.31

Savings: \$4.31 - \$1.09 = \$3.22

Annual Ownership Costs

Insurance	\$1,694 ⁷
License, Registration, Taxes	\$622 ⁹
Depreciation	\$3,703 ¹⁰
Finance Charge	\$581 ¹²
TOTAL	\$6,600

Savings: \$6,600 - \$807.43 = \$5792.57



Converting your ebike hosts an abundance of advantages over a vehicle or a ready-to-ride electric bicycle. Manufacturers learned how to make the most money from consumers by developing electric bikes that require owners to continue shopping their brand. They do this by making parts of the electric bike custom to their brand, such as the battery, motors and sensors; making it extremely expensive and difficult to replace parts.

However, electric bike conversion systems offer a more adaptable solution to alternative cost-effective mode of transportation.

Today, ebike conversion systems are far more advanced in technology and can be fitted to a large variety of bike sizes and styles. eBike conversion systems are also lightweight, easily interchangeable, less expensive to replace parts and easier to maintain than the heavy, all-in-one ebikes.



#4 SOCIAL AND FINANCIAL EQUITY:

Ensuring equitable access to transportation increases opportunity to alleviate poverty, by providing a reliable source of transportation to work and education and social aids. According to the UK 2010 Child Poverty Act, parents and children lacking access to transportation are more affected in rural areas, resulting in higher unemployment rates and increased need for disadvantage services. This exclusion hampers their ability to break free from the cycle of poverty and to fully participate in society.



2022 CENSUS BUREAU – BETHLEHEM, PA

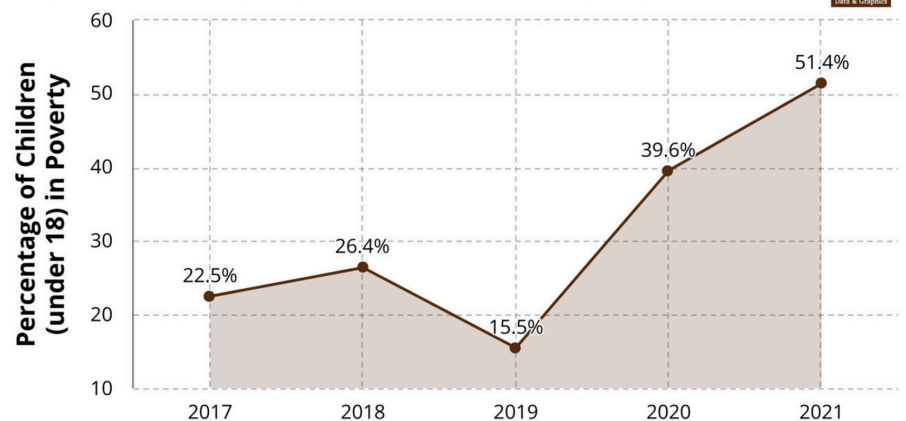
With a total population of 77,617, about 75% of the population is 18 years or older, with an appalling poverty rate of 18.3%, or approximately 14,240. The average poverty rate in the United States is 11.5%.

POVERTY IN OUR OWN COMMUNITY IS INCREASING.

In a Lehigh University study last revised on September 27, 2023, the childhood poverty rate in South Bethlehem increased by 130% since 2017. The U.S. News reported the 38.6% of students in the Bethlehem Area School District is economically disadvantaged.

Changes in Childhood Poverty in South Bethlehem

Compared to 2017 childhood poverty in South Bethlehem has increased by nearly 130%.



Graphic by Ashley Kim/B&W Staff - Source: [United States Census Bureau](#)



In the Climate Priority Action Plan, it is reported that 7.4% of Lehigh Valley Households do not have a vehicle available, equivalent to 19,383 households within our community.

A lack of access to transportation disproportionality affects low-income, disadvantaged communities and communities of color. The data shows that the Lehigh Valley is a car-centric society, without reliable transportation our community suffers from limited access to employment opportunities, education, healthcare, grocery stores and other critical needs.