



BICYCLE

MOTOR WORKS

CAMPAIGN FOR CERTIFICATION FUNDING

PREPARED FOR

Jaclyn Palos Bzura

PRESIDENT

BICYCLE MOTOR WORKS

FUNDING REQUEST PURPOSE

UL 2271 CERTIFICATION

APRIL 2024





AGENDA

- INTRODUCTION
- LEADING NATIONS
- MARKET ANALYSIS
- FOREIGN SUPPLY COMPLICATION
- BENEFIT MOTIVES
- OPPORTUNITY
- WHO WE ARE
- OUR MISSION
- PROPOSAL FOR SUPPORT
- OUR PRODUCTS
- INDEPENDANT OUTREACH PROGRAM
- WORLDWIDE PROBLEM SUMMARY
- COMMUNITY IMPACT SUMMARY
- GLOBAL IMPACT SUMMARY
- CONTACT



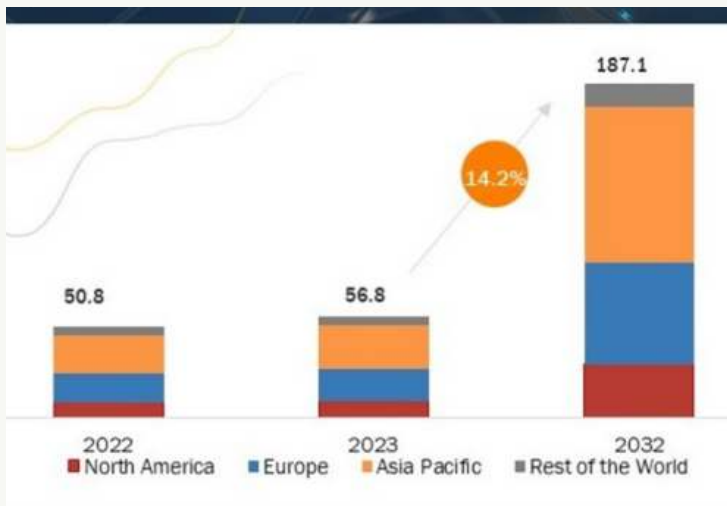
I am Jaclyn Bzura, co-founder of Bicycle Motor Works, a business founded with my partner Matthew Bzura over a decade ago in Bethlehem Pennsylvania. Bicycle Motor Works is one of only a handful of U.S. manufacturers that specialize in manufacturing High-Quality, High-Current eBike Batteries. It's not just another battery. It's electric. Specifically, a high-quality lithium-ion battery that we've spent 10 years developing, producing and selling to a rapidly growing number of eBike riders worldwide. It's uniquely positioned us to take the business of eBikes to the next level in the US. But we need your help. Specifically, we are asking for roughly \$110,000 of your help for UL 2271 Certification.

What is UL 2271 Certification?

We'll get to that. First, let me talk about the ebike.

Around the world, the eBike market has experienced a remarkable surge in demand as consumers pivot to convenient, affordable and eco-friendly modes of transportation as an everyday alternative. In Europe, growth forecasts indicate that by 2030 the number of e-bikes sold each year could go from USD 4,236.84 million in 2023 to 8,145.73 million by 2030, undergoing a CAGR of 8.5%. Putting this in auto-drive, this would suggest that in 2030 there will be twice as many bikes as cars registered per year in the European Union.

Data Resource: Data Bridge Market Research



What about the U.S.?

In the U.S. eBike sales topped 1.3 billion in 2023. Yes, it was! Demand that was largely serviced by overseas battery manufacturers, easily tapping into our unregulated market. And that is really just the tip of the iceberg. We're at the beginning of being super late to a party that the rest of the world has kindly initiated on all our behalf. One that significantly reduces particulate pollution and smog, as well as cuts carbon emissions in the transportation sector.

WE'VE GOT BARRIERS.

Big ones. Some of which, like infrastructure investment, are currently being addressed at the national level. Less visible, though, is that no international manufacturing standard yet exists for eBikes. This allows a host of cheap imports with substandard and oft times dangerous batteries to dominate the U.S. market while also threatening to derail the valuable benefits of eBikes. Which makes terrain for eBikes in the U.S. a very slippery slope.



WE NEED TO BREAK BARRIERS. NOW.

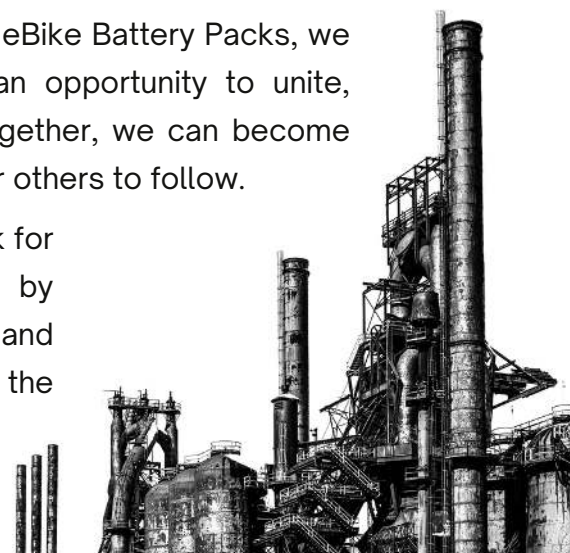
This is where investing in UL 2271 Certification matters, and frankly where we collectively, as a community, have a golden opportunity to make a huge difference in transit, the environment, and more. As a small business, the cost of UL 2271 Certification is practically, well ... our house.



*We are your U.S.
eBike Battery
Manufacturer*

Bicycle Motor Works is the founder of High-Quality, U.S. Made eBike Battery Packs, we are your U.S. eBike Battery Manufacturer. We bring forth an opportunity to unite, bringing U.S. manufacturing back home to Bethlehem, Pa. Together, we can become the new standard, demonstrating responsible manufacturing for others to follow.

This our chance to change the policy and set up the framework for a safer marketplace that is currently being dominated by unregulated imports, that is negatively impacting our economy and more importantly the safety of our consumers. Let's set the precedence for a healthier, greener and thriving community.

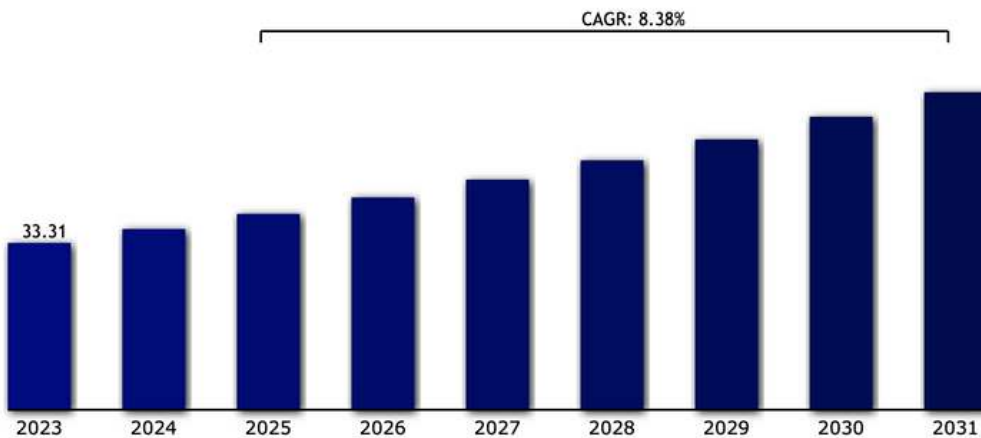


THE GLOBAL EBIKE MARKET SURGES

Around the world, the ebike market is experiencing a remarkable surge, as consumers turn to a convenient and eco-friendly mode of transportation.



E-Bike Market Size, 2023 To 2032 (USD Billion)



The U.S. imported 790,000 electric bikes in 2021, which is a 70% increase from 2020.



2020 EBIKE MARKET REFLECTION

GERMANY

38% of all bikes sold were electric bikes.

NETHERLANDS

17.4% of all bikes sold were electric bikes.

AUSTRALIA

eBike sales grew by more than 50%.

UNITED KINGDOM

There was a 145% increase in eBike sales.

DUTCH

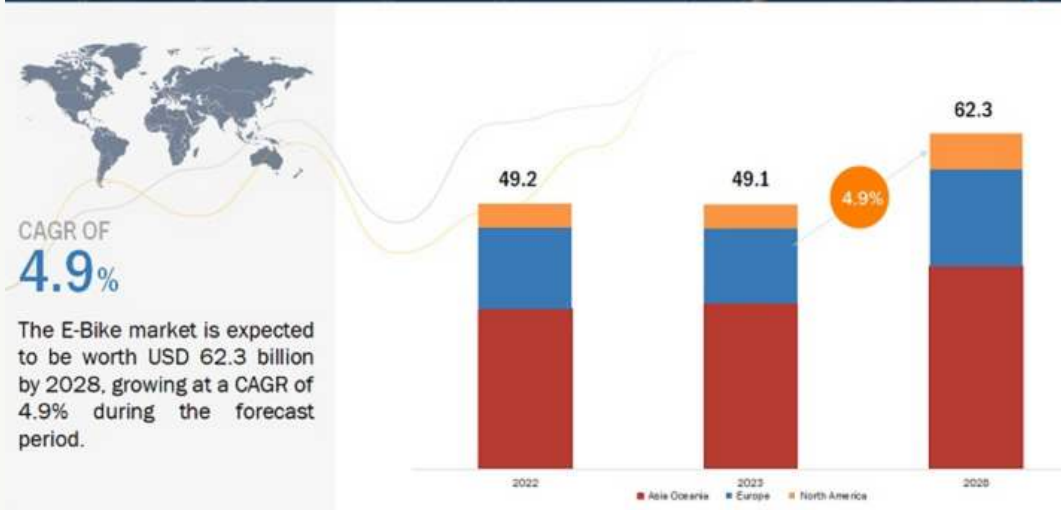
26% of Dutch eBike owners ride daily.



ASIA-PACIFIC **DOMINATES** the eBike Market

As of today, the Asia-Pacific continues to lead the ebike market, **generating around 81% of the worldwide revenue from the electric bike industry**, according to the BCC Research report posted: February 20, 2024. It is not surprising that China produced 90% of the entire world's ebike production, profiting from the lack of global competition.

E-BIKE MARKET GLOBAL FORECAST TO 2028 (USD BN)



According to BloombergNEF

78%

OF THE GLOBAL
COMMISSIONED CELL
MANUFACTURING
CAPACITY TODAY IS
LOCATED IN CHINA.



EUROPE IS **SECOND TO LEAD** the eBike Market

Europe's growth is rapidly increasing, reporting in 2020 a 145% surge in ebike sales, posted by the Gitnux Marketdata: December 2023 Report. Leading this growth is modeled by progressive thinking governments in The Netherlands, followed closely by Germany. To date, the Netherlands continue to serve as a beacon of inspiration for nations worldwide, demonstrating supportive policies that stimulate ebike adoption and innovation.

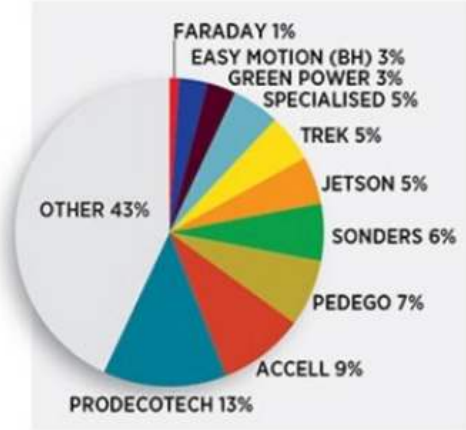
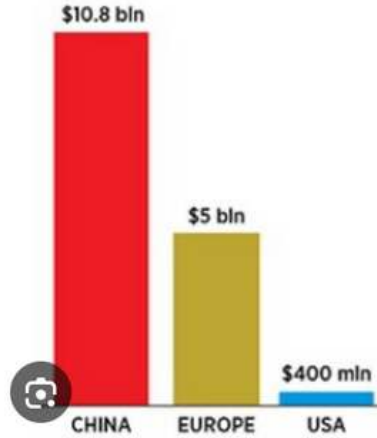
The United States profits are a  **FRACTION** of the global eBIKE market.

THE U.S. LAGS BEHIND

The United States is just beginning to emerge in the ebike industry, as the U.S. reported that only 600,000 ebikes were sold in 2020, making up only a fraction of all ebikes sold worldwide. Missing an opportunity to profit, most of the ebike revenue was sent outside the United States, as the very few U.S. brands in the marketplace produced ebikes that were too expensive, complex and difficult to maintain for most riders.

BIKE PEDDLERS

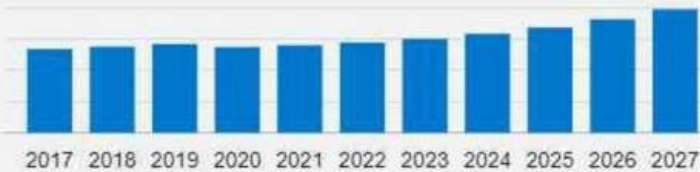
The global e-bike market is big, but the US's share is small and fragmented among many players



IT IS ESTIMATED THAT BY 2030, LIGHT VEHICLES, COMMERCIAL VEHICLES, AND BUSES WILL ACCOUNT FOR ABOUT 90% OF THE LITHIUM-ION BATTERY MARKET.



Market Size Outlook (USD Billion)



2017 : 5.34

4.1%
Year-over-Year
growth rate of 2023

6.46%
CAGR 2022-2027

ACCELERATING
Growth Momentum

USD 2.12 Bn
Market size
growth

Year	Market Size (USD Bn)
2022	2.12
2027	2.12



GLOBAL EBIKE BATTERY MARKET FORECAST

The eBike Battery Marketplace Worldwide is estimated to be valued at USD \$12.74 billion in 2024, and is expected to reach USD 23.80 billion by 2029, growing at a CAGR of 13.33% during the forecast period (2024-2029).



ASIA-PACIFIC **RULES** the eBike Battery Market.

China is the global market leader for e-bikes and e-bike components, especially the battery, contributing to more than 50% of the Asia-Pacific e-bike battery pack market during 2018-2020. Currently, their growth is owed to its high consumption of electric bikes, to tackle heavy traffic conditions and growing vehicle pollution in the country.

It is important to note that the Asia-Pacific's popularity and stellar market growth is due to their nation's foresight and strategy. A little more than 10 years ago, China made a strategic decision to support the growth of a large electric vehicle industry in China, which it did using all the robust tools of a command economy.

China supports innovation, utilizing key players in the ebike battery market to constantly invest in R&D capabilities and production capacities to stay ahead of the competition. For instance, Contemporary Amperex Technology, Tianneng Battery, and Shenzhen Topband are adding extra production lines for LFP (lithium iron phosphate) batteries, majorly for ebike applications.

Another remarkable strategy is China's adoption of bike sharing. China's booming bike sharing companies are now collaborating with battery makers to swap discharged and faulty batteries at dedicated kiosks. Investments are being made to strengthen charging infrastructure, and the use of technology such as artificial intelligence is helping predict demand more precisely.

The biggest lead is China's foresight to retain the battery supply chain.

It will come as no surprise to any of you that the United States has fallen far behind Asian nations, in particular behind China, in the production of lithium-ion batteries and their components. The heart and soul of the lithium-ion battery supply chain is, of course, the lithium-ion battery cell. According to BloombergNEF, 78% of the global commissioned cell manufacturing capacity today is located in China.

China controls the eBike Battery Component Supply Chain.

Today, China, Japan and South Korea collectively account for about 94% of cathode materials manufacturing capacity worldwide. China, Australia and Chile account for 83% of the lithium mining nameplate capacity in the world. The United States accounts for less than 1%. In cobalt, the Democratic Republic of the Congo accounts for 78% of all cobalt mining nameplate capacity in the world. Canada comes in at about 2%. Russia, China and Indonesia together account for about 37% of nameplate mining capacity, with Canada accounting for about 17% and the United States about 1%.

The more pressing near-term bottleneck in the lithium-ion supply chain, is the mid-stream refining of those materials into the processed chemicals that are used to make a battery cathode. Today, 61% of all lithium used in batteries is refined into lithium hydroxide or lithium carbonate in China. In cobalt, 72% of all cobalt refined into cobalt sulfates and oxides used in cathode production is refined in China.

The United States
is 10 years behind,
and it's a major
PROBLEM.

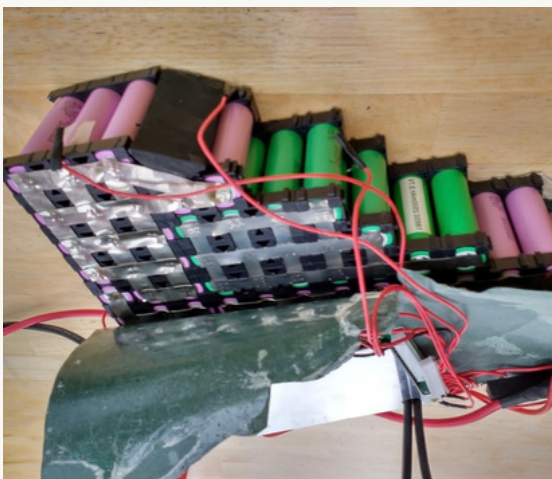
There is no reason why a robust lithium-ion battery supply chain cannot be built in the United States. Unfortunately, U.S. manufacturers have never gotten a consistent signal from their government as to when a real push into vehicle electrification is going to be made. Chinese battery makers have been supported by their government ten years ago and European manufacturers now receiving that same support today.

We are at risk for foreign-based manufacturers to take ownership of any branding or spin-off technologies generated by their U.S. manufacturing operations.

With a 10-year head start, our competition has become manufacturing experts in lithium-ion battery technology and control over the global supply chain. Foreign battery cell manufacturers can be expected to use their own manufacturing engineers and scientists in order to protect their manufacturing know-how. They can also be expected to commercialize their own research and development in preference to research and development generated by U.S. companies and entrepreneurs. All of this puts us at risk for foreign-based manufacturers to take ownership of any branding or spin-off technology generated by their U.S. manufacturing operations.

Not only are foreign-manufacturers profiting from us, they have a free range.

Currently, the U.S. eBike Battery marketplace is unregulated, allowing foreign manufacturers to sell the most unsafe, cheaply produced ebike batteries to our consumers. In a foreign-dominated marketplace, the cost for labor and materials allows manufacturers to produce packs at astonishing low costs. Manufacturers often will reduce the quality of the battery to keep costs down at a competitive price.



Our consumers are
at significant **RISK.** 

Cutting the quality of an ebike battery is a dangerous method to keep costs down. In an unregulated marketplace, it is uncertain how safe your ebike battery is without proper safety certification supplied. Right now, you will find ebike battery packs online with exposed cells and wires, faulty BMS's (important safety function), unsealed ports, used cells, sand-filled cells and loose connections.

Foreign Manufacturers are causing **FIRES.**



In 2021 and 2022, the U.S. Consumer Product Safety Commission (CPSC) received reports from 39 states of at least 208 fires for overheating events that caused a reported 19 fatalities. In New York City alone, there were 318 fires, 226 injuries and 10 deaths during this period. This source also reported that less than 15% of those electric bikes sold in the U.S. are not UL certified.

Low Cost, Low Quality, Unsafe

In England, the London Fire Brigade reported a 78% increase in e-bike fires in 2023 compared to 2022, with 155 e-bike fires and 28 e-scooter fires recorded last year. Three people died in the fires and about 60 people were hurt. In January, the Office for Product Safety and Standards (OPSS) announced it is taking enforcement action against the manufacturer of the UPP battery after its products were linked to numerous fires in the UK. Five online marketplaces have been issued with Withdrawal Notices, which require them to stop supplying the UPP battery. The Withdrawal Notice has also been issued to 20 sellers directly and the China-based manufacturer.

A Dangerous Awareness Gap on E-Bikes

43%

of e-bike owners are unaware that their e-bike contains a lithium-ion battery

46%

admit to using the most affordable replacement chargers or batteries regardless of manufacturer

53%

are unaware that there are safety standards for lithium-ion batteries

The United States needs government support.



- Our nation is jeopardizing the safety of our consumers, allowing in an unregulated eBike Marketplace.
- Our nation is missing the many benefits of adopting ebike transportation.
- Our nation is losing out on opportunities now and for the future.
- Our nation needs to take action.

The result of an unsupportive government is a dangerous and foreign-manufacturer dominated marketplace. We are at risk for further damages caused by lack of action. The good news, is we can emulate what other nations have already achieved!

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.



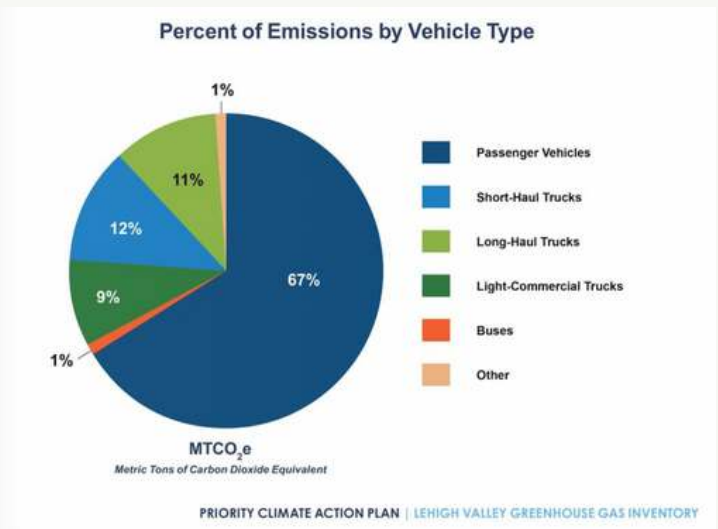
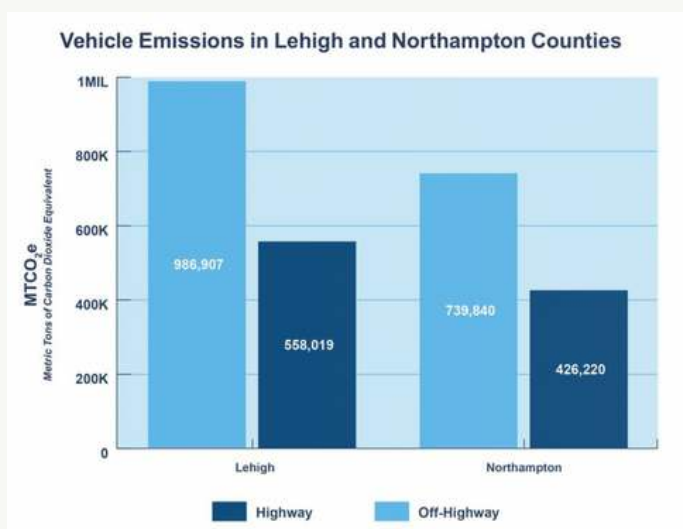
THE BENEFITS OF ADOPTING E-BIKE TRANSPORTATION



#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

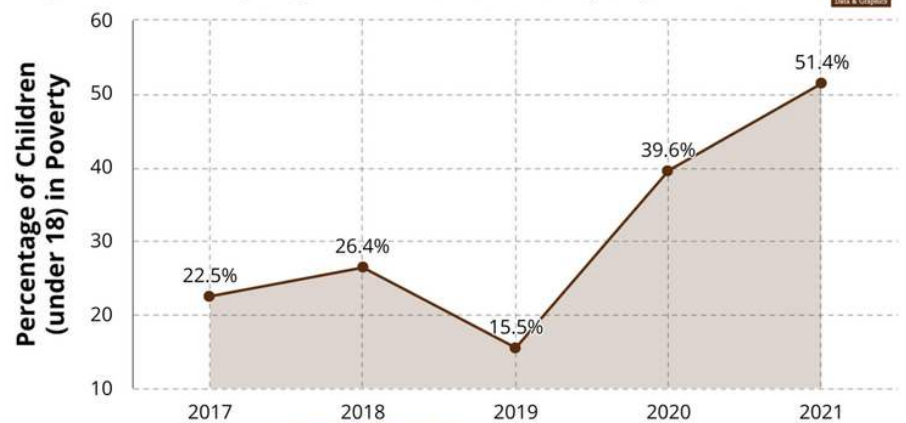
With a total population of 77,617, about 75% of the population is 18 years or older, with an appalling poverty rate of 18.3%, or approximately 14,240. The average poverty rate in the United States is 11.5%.

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.

Bicycle Motor Works brings forth opportunity for the United States.

BICYCLE MOTOR WORKS
REVOLUTIONIZES
the U.S. eBike Industry.

The opportunity was already envisioned, as we spent the last 10 years developing and producing a high quality ebike battery that serves riders nationwide, and a rapidly growing number of riders worldwide. We contribute our success to our forward-thinking mindset and strong customer-focused standards. We are your U.S. eBike Battery Manufacturer from Bethlehem, Pa.



Practical transportation is rooted in the success of U.S. manufacturing, which is supported by a strong government investment.



Our high-quality, premium cell, U.S. made ebike batteries have been in demand, with a customer retention rate of 27% in 2023. Since opening our market across the ocean, our packs have been trending quickly worldwide, shipping to countries such as Hungary, United Kingdom, Australia!

We earned the reputation of being one the most trusted brands in ebike battery marketplace. Based on our recent customer survey, 94.9% of our customers prefer our ebike battery products because of its high quality, as 5.1% found our excellent customer support more important. Unlike our competitors, we are not mass produced and offer premium options not found in the big boxed brands.



Our Signature Features:

- Highest-Current eBike Battery Packs Available
- Certified premium cells: Samsung, Molicel from U.S. Supplier
- Custom-built using Pure Copper Busbars, spot welded
- Reinforced with quality materials, structurally reinforced for durability
- Most reliable, safest BMS in the industry
- Universal, adaptable to most high-powered systems



How it started

Bicycle Motor Works is a customer-focused small family business that started nearly 10 years ago with a volt of inspiration and determination - within 3 months of losing management positions, husband and wife, Matthew and Jaclyn Bzura, founded and built their business from personal savings and family loans.

The couple turned the loss into an opportunity. Matt's lifelong bike passion became their thriving business. Always attentive to bicycle industry, Matt saw the need for motorized bicycles and knew he had the skills to fill the gap in the eBike Battery market. And he had just the partner to do it with, turning to his wife Jackie who put her computer savvy skills to use. Within weeks she turned Matt's idea into a unique brand, creating a full functioning e-commerce site and product line.

Over the last 10 years, through ingenuity and perseverance they perfected their products, and established themselves as a high-end brand in the ebike battery marketplace. Bicycle Motor Works is unlike other brands - it meets the demand for high current, high quality, U.S. Made, ebike battery packs. It earned the title of a "Most Trusted Brand". Their reach is worldwide and retains loyal customers.

In short, Bicycle Motor Works is a small business built on attention and customer trust. Their work ethic can't be mass produced and it shows, becoming personally available at all times. Their customers care about Bicycle Motor Works, because they care for them.



Giving Back to the Community

Both, Matt and Jackie deeply care for their community, particularly institutions that support drug and alcohol rehabilitations, mental health, children and women safety.

In January 2024, Bicycle Motor Works teamed up with other community businesses and launched the committee "Equitable Access to Transit" - a program to provide low-income families or students with an electric bike.

Matt and Jackie are determined to help give back to the community, that have helped them personally in so many ways. The team is currently in the process of securing their first set of ebikes to donate to a family in-need of transportation to work or school.





Our mission is to become UL 2271 Certified by UL (Underwriters Laboratory) and safely carryout our outreach program “Equitable Access to Transit”.

Our mission, as stated above, has been simplified into two actionable items. However, our intentions for certification serves to solve greater problems, in which reflects the positive outcomes - listed below.

BICYCLE MOTOR WORK’S MISSION

Serves to:

- Demonstrate responsible manufacturing, paving way for other small businesses to follow towards a safer ebike marketplace.
- Give back to our community and safely distribute ebikes and Bicycle Motor Works ebike batteries to low-income families lacking transportation to work or school. Through our program with Equitable Access to Transit, low-income families will thrive.
- Help build the framework for a government that supports the adoption of electric bikes, that ultimately will result in:
 - Eradicate unsafe manufacturers, primarily produced by foreign manufacturers, however making certification attainable for U.S. manufacturers.
 - Reduce the number of dangerous ebike batteries in the marketplace, bringing awareness to ebike battery education and consumer safety.
 - Increase the market value, by regulating manufacturers quality.
 - Proactively set-up a supply chain, avoiding future foreign-control.
 - Boost our economy, incentivizing U.S. manufacturing and reduce foreign manufacturers from profiting our marketplace.
 - Support a healthier, greener and eco-friendly community by reducing the emissions.
 - Boost our economy, supporting affordable transportation.
- Open up to other markets safely and compete against large corporation owned brands.
- Increase production and secure larger markets, resulting in the creation of jobs in-house and through contracted positions.

BICYCLE MOTOR WORKS
LEADS THE
MISSION.





Our proposal comes to you after 10 years of achievement. Bicycle Motor Works is now ready to take the next step.

We ask for your partnership in attaining our mission, and help offset the costs for our UL 2271 Certification with an investment of roughly \$110,000 - in which is itemized in the attached quotation provided by TUD SUV (National Recognized Testing Laboratory).

With your support, we will navigate between the three nationally recognized laboratories available to us.

This is your golden opportunity for Bicycle Motor Works to be your leader in U.S. eBike Battery manufacturing, responsibly putting Bethlehem, Pa on the map of progressive action.



Together, we can change the policy, framing out a safer marketplace, a greener and healthier community and boost our economy.

With your investment, we can demonstrate the importance of ebikes in our society, the need for ebike regulations and model a government supported system, a system that is already well-developed in other nations.

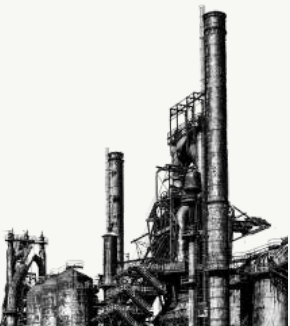
GENERATING OPPORTUNITY

With certification, Bicycle Motor Works can safely open up to new markets, generating more opportunity, boosting the economy and incentivizing the ebike marketplace. Allowing us to safely carry our new outreach initiative to provide low-income families with ebikes, in the program with Equitable Access to Transit.



BETHLEHEM, PA - *the home of innovation*

Once again, Bicycle Motor Works plays a vital role in boosting the economy, further demonstrating the need for government supported eco-friendly transportation policies and incentives. We are ready to move forward with you, together we can create opportunity.



BICYCLE
MOTOR WORKS

OUR PRODUCTS

We produce smart power for our intelligent customers.



Bicycle Motor Works supplies the demand for high-quality, high-current eBike batteries in the mass produced dominant marketplace.

Outstanding Product Features

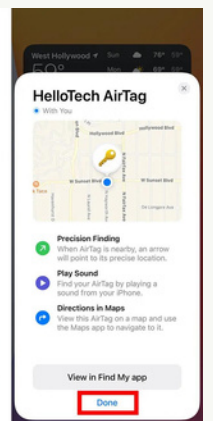
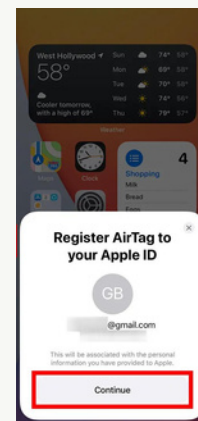


- Highest-Current eBike Battery Packs Available
- Certified premium cells: Samsung, Molicel from U.S. Supplier
- Custom-built using Pure Copper Busbars, spot welded
- Reinforced with quality materials, structurally reinforced for durability
- Most reliable, safest BMS in the industry
- Universal, adaptable to most high powered systems

eBike Battery Catalog

View our full catalog or see attached manuals.

- Traditional Encasement
- Built-in Lock and Mount Encasement
- 52v-72v varying from 8amp-21amp
- Samsung 50S, 40T
- Molicel P45B, P42A
- Bluetooth and Airtag tracking upgrade



Our Secret Sauce For Success

High Quality Standards ★★★★★

We set high quality standards for every step, at every stage in our process of production, with the single goal of retaining a happy end user.

Most Popular Models

- Pocket Rocket 2
- Pocket Rocket S
- The Wedge
- 72v 8ah

INDEPENDENT OUTREACH PROGRAM

Bicycle Motor Works teamed up with community partners in the Lehigh Valley to form the Committee, Equitable Access To Transit (E.A.T.) Our Mission is to invest in our community both economically and environmentally by providing low-income families with efficient ebikes.



EQUITABLE ACCESS TO TRANSIT

THE FOUNDING BOARD MEMBERS



CHRIS BRIGGS

Bethlehem eBike

Specializes in building, servicing, inventorying and supplying ebikes with community partners.



JACKIE PALOS BZURA

Bicycle Motor Works

Assists in coordinating ebike program, supplies local batteries, materials, reviews processes.



MEGAN LYSOWSKI

Independent Administrator

Grant specialist and researcher, manages community relations and funding opportunities.

BOARD MEMBERS

JILL SMITH PURIFOY

Marketing & Design

MATTHEW BZURA

Bicycle Motor Works

SCOTT SLINGERLAND

BILL MEIKLEJOHN

Coalition of Appropriate Transportation

KEY PLAYERS

E.A.T. COMMITTEE MEMBERS

Responsible for funding, coordinating ebikes and building program to supply community partners with ebikes.

INDEPENDENT MISSION PARTNER

Grant lead on applicant, manages mandatory educational classes, maintenance and service resource.

COMMUNITY PARTNER WITH EXISTING OUTREACH PROGRAM

Utilizes our service through their existing outreach program, responsible for managing the application process.

Our government needs to regulate the ebike battery marketplace nationwide and standardize the safety requirements. Currently, the ebike marketplace offers no protection to consumers from purchasing hazardous ebike batteries.



Reported Battery Fires

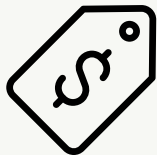
In 2021 and 2022, the U.S. Consumer Product Safety Commission (CPSC) received reports from 39 states of at least 208 fires for overheating events that caused a reported 19 fatalities.

In New York City alone, there were 318 fires, 226 injuries and 10 deaths.

Sources: UL Solutions, People for Bikes, Consumer Product Safety Commission



Current estimates show that less than 15% of ebikes sold in the US have UL certifications.



UL testing can cost anywhere between \$30,000 to \$100,000 per model, according to the New York Times, citing industry experts. This expense is unrecoupable for small U.S. manufacturers.

WE RISK LARGE COMPANIES MONOPOLIZING THE EBIKE INDUSTRY.

Without making UL testing certification attainable to small U.S. manufacturers, we risk increasing the problem when consumers seek options in an underground marketplace.



- eBike Battery prices will increase significantly, inflating the value.
- Big boxed brands will pigeonhole future purchases, dominating the purchase behavior.
- With a lack of options, consumers will seek an underground marketplace.
- Reputable and non-reputable manufacturers will go out of business.
- The underground market will become an even bigger problem.



WHY YOU NEED TO INVEST IN OUR CERTIFICATION?

Your Community Impact



PROGRESSING OUR COMMUNITY



With our local community partners “Equitable Access to Transportation” we will **provide low-income families certified local ebikes** to get them to work, school or other personal growth opportunities.



CREATE MORE JOBS



Certification will allow Bicycle Motor Works to safely carry our mission with E.A.T.’s Outreach Program and expand into other markets. This will **create more jobs inhouse and through our outreach program.**

ENCOURAGE ALTERNATIVE TRANSPORTATION

In support of the LVPC’s Climate Change Action Plan, we will **reduce carbon emissions** through our E.A.T. program, further encouraging alternative earth friendly transportation methods.



SUPPORT LOCAL BUSINESS



LEAD THE WAY FOR OTHERS

Let us can become an **exemplary model for local businesses to pursue safer practices**, leading a path to acquire funding for recommended or required certification and education.



BICYCLE
MOTOR WORKS

**HOW INVESTING IN US
WILL CHANGE THE
WORLD.**

Your Global Impact



SET SAFER STANDARDS

Certification UL2271 serves to **protect consumers from purchasing unsafe ebike batteries**, potentially causing irreparable harm. Bicycle Motor Works is determined to compete against large corporations and set better standards in an unregulated ebike marketplace.

MINIMIZE THE UNREGULATED MARKETPLACE

Making certification attainable to Bicycle Motor Works and other small businesses will reduce consumers from seeking underground unregulated markets. **Unsafe battery packs need to be eradicated**, consumers need safer options.



SUPPLY THE DEMAND

Consumers demand the options and deserve the quality, not found in mass produced big box brands. **Bicycle Motor Works amplifies the ebike marketplace** delivering premium, high-quality, high-current, ebike battery packs that are custom built in Bethlehem, Pa. and distributed to ebike riders worldwide.

INHIBIT MONOPOLY CONGLOMERATES

As a direct competitor, Bicycle Motor Works, help keep conglomerates from dominating the marketplace and **inhibit inflation**.



LET'S
MAKE AN
IMPACT
TOGETHER

Thank you!

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