

Proposal for Battery Recycling

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Statement of Need

In the Northern Nevada community and area, many companies and businesses are in demand for batteries. In order for these companies to be able to save money and create new products, items, and materials, they need the money too create and build them. A way for this to be achieved is if there is funding for bins and plastic cans that can be placed in populated areas like schools, malls and shopping centers, etc. By implementing battery recycling, businesses and companies where daily items are being created need to be able to have enough supplies while saving money.

Proposal/Mission Statement

Battery recycling - Battery recycling will improve sustainability in Northern Nevada.

Main objective: Students at Eagle Valley Middle School (EVMS) are trying to get plastic bins, cans, and other materials for battery recycling. Battery recycling is beneficial to the communities hygiene/health, economics, and profit. By recycling batteries, it will remove any batteries from landfills, trash dumps, and other places batteries where aren't benefit people, planet, and profit.

Mission statement - Battery recycling will improve sustainability because it will keep the chemicals in batteries from polluting our community and environment. It will also save money for businesses and companies in demand for batteries.

Goals/Objectives

The major goals and objective of this project is to have cleaner and safer environment by recycling electronic/used batteries because it benefits the environment and businesses. The expectations for this school is to get materials and bins, this success will be measured by seeing the difference of how many companies are spending less money and seeing a cleaner environment. If there was a comparison in the rates of the past and present, the past would have a rate of 7% less battery and the present would have a 28% more of an increase of a cleaner environment and businesses having more money. Therefore, the expected outcomes of this project is having an increase of 10% in saving money.

Project Activities

In order for the project to be successful, there needs to be activities and events to promote ideas to have the community contribute to this proposal. A way we could do this is by holding a community event in downtown Carson City for this proposal and Project Pants to invite the town to recycle batteries and donate pants.

Research

500%

Surging battery demand

Demand for lithium-ion batteries estimated to grow 500% in the next 10 years.

50,000

Unsustainable supply chain

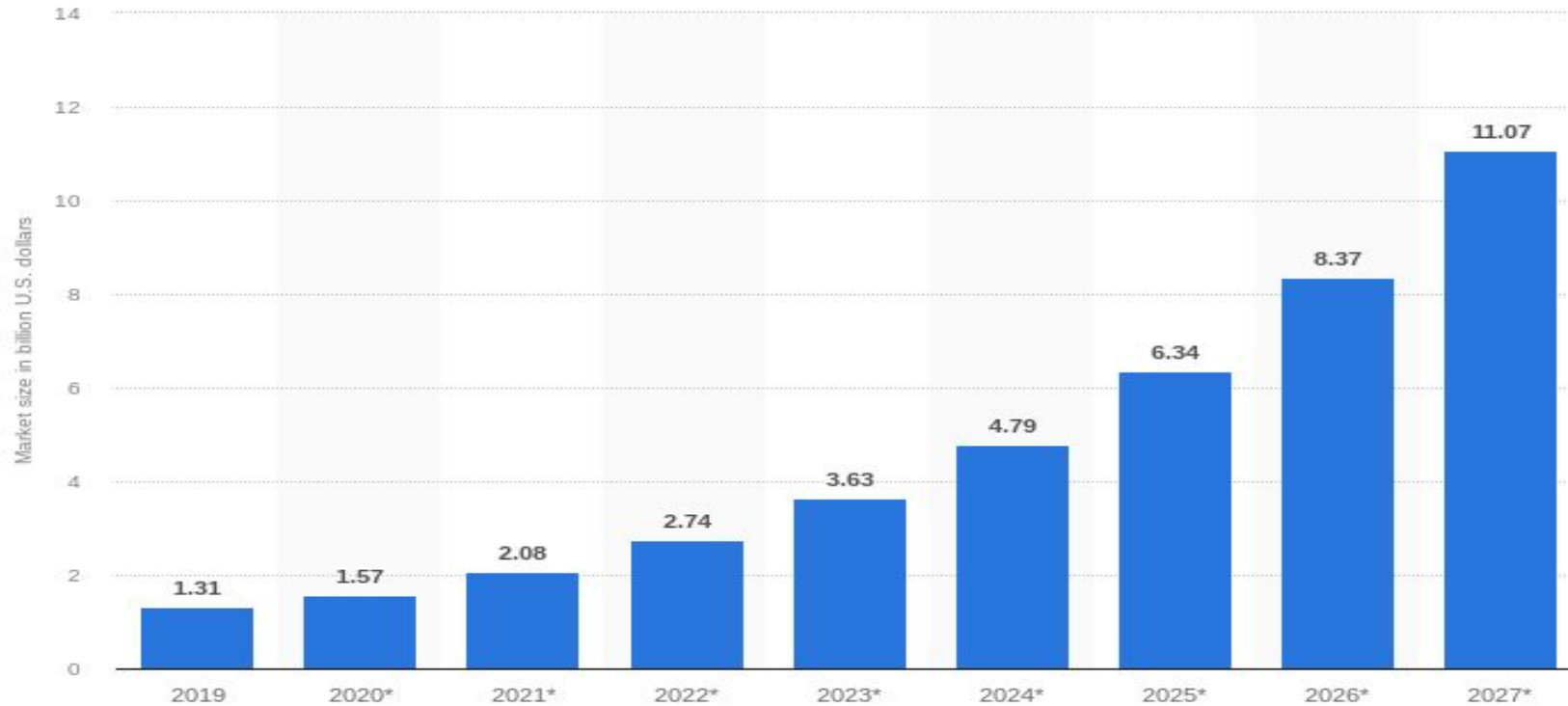
The number of miles that materials must move in before they reach a battery cell factory.

300 TWh

Gap in capacity

The world is estimated to need 300 terawatts of battery capacity to be fully sustainable.

Research continued



Impact Analysis 🙈

The impact it can have towards Eagle Valley Middle School is that the school is contributing to improving sustainability and creating a cleaner environment and community for everyone. This project can help EVMS be considered a sustainable school and supports the Carson City School District Strategic Plan and EVMS STEM sustainability plan.

Sources

<https://www.redwoodmaterials.com/>

<https://www.batteryrecyclersofamerica.com/scrap-battery-prices/>

<http://www.lasvegasbatteryrecycling.com/>

<https://www.undp.org/energy>

<https://www.ucsusa.org/>