Recycling Lithium Ion Batteries

By: Kevin Ruano Hernandez



Who I am and why this issue is important to me

- Kevin Ruano Hernandez, Senior at Pinole Valley High School, grew up in North Richmond.
- ❖ I was born with Asthma at a young age however, outgrew it and started to see many people around me suffer from similar issues.
- That motivated me to get involved in these efforts and learn more.



What are Lithium Ion Batteries?

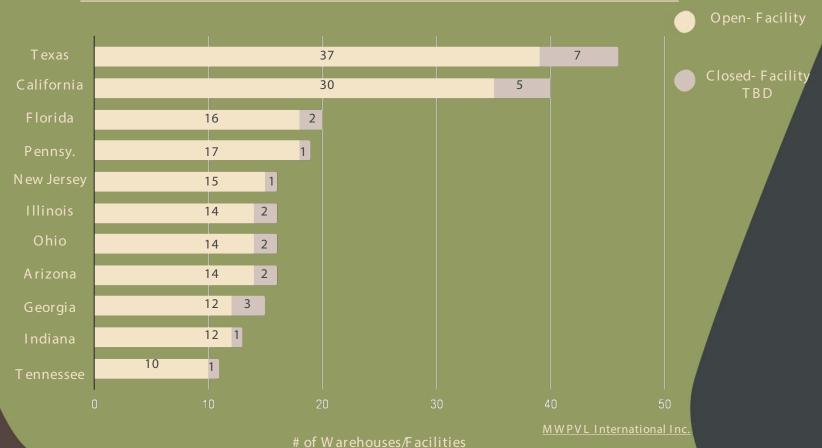


- Lithium Ion Batteries are popular for their energetic rechargeable source.
- They are also popular because they power technology devices such as our laptops, cellular devices, and cameras.
- Lithium Ion Batteries contain flammable electrolytes and lithium and cobalt.

The concern for my community

- Distribution centers are one of the causes of emissions and pollutions due to the diesel pollution produced in their delivery vehicles.
- A few year ago, one of the biggest distribution centers in the Bay Area, in Richmond, has been sold to Amazon.
- There is an interest in switching to zero emissions.
- But with the increased demand for electric vehicles, there will need to be a way to learn how to recycle these electric vehicle batteries safely and efficiently.

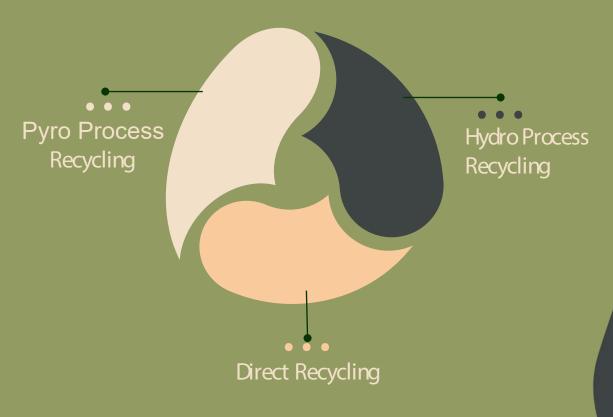
The number of Amazon warehouses/facilities in each state



What is the issue with recycling Lithium Ion Batteries?

- There are a limited number of lithium ion battery recycling plants in the United States.
- ❖ There are several economic barriers that exist.
- Recycling may increase the risks of environmental impacts

Ways how to recycle Lithium Ion Batteries



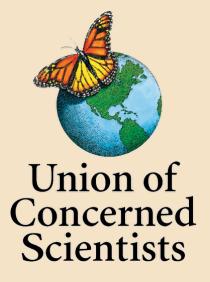
Proposal to the Commission

- We need a recycling plant that focuses on Lithium Ion Batteries in Contra Costa County or all across the US.
- As shown in recent news, there is potential for creating these businesses in the U.S.
- ❖ I recommend the Commission advocate for a Lithium Ion Battery recycling plant in Contra Costa County.
- ❖ The Commission should educate community groups on the hazards and potential dangers of these types of batteries.

Acknowledgment

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Thank you for listening to my Presentation

Questions? Comments? Suggestions?

