



E-WASTE

2023-2024

ANNUAL REPORT

PLEASE



RECYCLE

SOCIAL ACTION PROJECT

PREPARED BY

ECO-TECH INITIATIVE



ACKNOWLEDGEMENT



The eco-tech initiative team would like to extend our sincerest appreciation to all those who have been involved in the successful implementation of this initiative. The unwavering support and guidance provided by our project supervisor, Mr. Ali Shafqat, and our dedicated team members, partners, sponsors, and volunteers has been instrumental in the success of this project. We would also like to extend our gratitude to the communities we have had the privilege of working with, for their cooperation and willingness to participate in this initiative.

Your contributions have been invaluable in our efforts to improve sustainable environment. We are honored to have had the opportunity to work with such a dedicated group of individuals and organizations. We look forward to continuing to work together towards ensuring sustainable and equitable access to these essential resources for all.

Thank you.

Meet OUR TEAM

Meet our professional network team!



Sajid Ali
CONTENT WRITER



Shahkar Malik
GRAPHIC DESIGNER



Amna Ishaq
PHOTO&VIDEOGRAPHER



M. Nazir
EVENT MANAGER



Munawar Ali
SOCIAL MEDIA MANAGER

Introduction

As our world becomes increasingly reliant on technology, the issue of electronic waste, or e-waste, has gained significant attention. The rapid pace of technological advancements and the ever-growing demand for electronic devices have led to a surge in e-waste generation. This report aims to shed light on the environmental and social implications of e-waste and the urgent need for proper management and disposal practices.

Firstly, we'll delve into the scale of the problem by exploring the staggering statistics surrounding e-waste accumulation globally. By understanding the sheer volume of discarded electronic devices and their hazardous components, we can grasp the magnitude of the environmental challenges we face.

Next, we'll examine the detrimental impact of e-waste on our planet. From toxic chemicals leaching into soil and water sources to the release of greenhouse gases during improper disposal methods, e-waste poses a significant threat to ecosystems, biodiversity, and human health. This section will highlight specific case studies and examples to illustrate the real-world consequences of inadequate e-waste management.

Furthermore, we'll explore the social and economic aspects of e-waste. We'll discuss the inequitable distribution of e-waste burdens, particularly in developing countries, where informal recycling practices can have severe health and socioeconomic consequences. Additionally, we'll analyze the potential for e-waste recycling as a source of job creation and economic opportunities.

To address these challenges, we'll delve into current e-waste management practices and policies. We'll examine both discretionary and rule-based approaches, providing examples of each to showcase their effectiveness and limitations. By understanding the different strategies, we can identify best practices and potential areas for improvement.

Lastly, we'll explore the role of individuals and organizations in promoting sustainable e-waste management. We'll discuss the importance of consumer awareness, responsible consumption, and the proper disposal of electronic devices. Additionally, we'll highlight initiatives and campaigns aimed at raising awareness and driving positive change in e-waste management.

Throughout this report, we'll emphasize the need for collaborative efforts from governments, manufacturers, consumers, and the technology industry to implement comprehensive and sustainable solutions. By addressing the e-waste crisis head-on, we can protect our environment, safeguard human health, and create a more sustainable future for generations to come.

Message from our team

Eco-Tech Initiative

“Change the future”

"Change the Future" is a captivating phrase that inspires us to take action and make a positive impact on the world. It serves as a reminder that our choices and actions today have the power to shape a better tomorrow. In the context of e-waste, this caption encourages us to address the growing issue of electronic waste and find sustainable solutions.



E-waste, which includes discarded electronic devices like smartphones, laptops, and televisions, is a significant environmental challenge. These devices often contain hazardous materials that can harm the environment and human health if not properly managed. By changing the future, we can tackle this issue head-on.

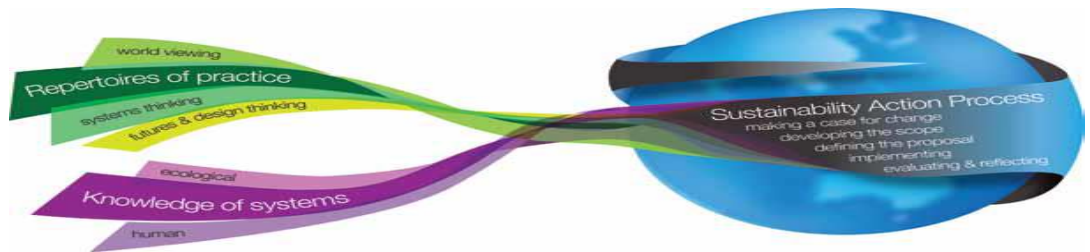
E-waste, which includes discarded electronic devices like smartphones, laptops, and televisions, is a significant environmental challenge. These devices often contain hazardous materials that can harm the environment and human health if not properly managed. By changing the future, we can tackle this issue head-on.

One way to change the future is by raising awareness about the importance of responsible e-waste management. Educating ourselves and others about the environmental and health risks associated with improper disposal is crucial. We can encourage individuals and businesses to recycle their old electronic devices through designated e-waste collection programs.

Another aspect of changing the future involves promoting sustainable consumption practices. Instead of constantly upgrading to the latest gadgets, we can extend the lifespan of our devices through proper maintenance and repair. By reducing our consumption and making conscious choices, we can minimize the amount of e-waste generated.

Furthermore, supporting initiatives that focus on recycling and refurbishing electronic devices is a significant step towards a more sustainable future. Many organizations work tirelessly to recover valuable materials from e-waste and give devices a second life. By supporting these initiatives, we contribute to reducing the environmental impact of electronic waste.

In conclusion, "Change the Future" is a powerful call to action. By addressing the issue of e-waste through awareness, responsible consumption, and supporting recycling initiatives, we can make a positive impact on the environment and create a better future for generations to come. Let's embrace the opportunity to change the future and leave a lasting legacy of sustainability.



Objectives

1. Environmental Protection: Proper e-waste management aims to minimize the negative impact of electronic waste on the environment. It involves reducing the release of hazardous substances into the air, water, and soil, and preventing pollution caused by improper disposal.



Environmental Protection



Resource Conservation:



Health and Safety:



Energy Efficiency



Extended Product Lifespan

2. Resource Conservation: E-waste contains valuable materials such as precious metals and rare earth elements. By managing e-waste effectively, we can recover and recycle these resources, reducing the need for raw material extraction and conserving natural resources.

3. Health and Safety: E-waste often contains hazardous substances like lead, mercury, and cadmium. Safe handling and disposal of electronic waste protect the health and safety of workers involved in recycling and prevent the release of harmful substances into the environment.

4. Energy Efficiency: Proper e-waste management promotes energy efficiency by encouraging the recycling and refurbishment of electronic devices. Recycling reduces the energy required for raw material extraction and manufacturing, contributing to a more sustainable energy footprint.

5. Extended Product Lifespan: By reusing and refurbishing electronic devices, we can extend their lifespan and reduce the demand for new products. This helps to minimize environmental impact of manufacturing new devices and reduces the amount of e-waste generated.





E-waste contains precious metals and several critical raw materials such as gold, silver, antimony, beryllium, cobalt, neodymium and indium. A higher recycling rate of these materials would reduce their supply risk.



E-waste also contains several hazardous materials and chemicals such as halogenated compounds, radioactive substances, heavy metals and other metals that pose environmental and health risks if not managed adequately.

Source: EEA/ETC-WMGE

Problem statement

<u>Problem</u>	<u>Solution</u>	<u>Alternative</u>
<u>Environmental pollution</u>	To promote responsible recycling and proper disposal of electronic devices. This helps prevent toxic substances from entering the environment. Another solution is to encourage manufacturers to design products that are more sustainable and easier to recycle.	To promote sustainable consumption by buying electronic devices only when necessary and opting for longer-lasting products.
<u>Health Risk</u>	It's important for individuals and communities to be aware of the potential health risks and take necessary precautions. Governments and organizations can also implement regulations and guidelines to ensure the safe handling and recycling of e-waste. By prioritizing health and safety, we can reduce the risks associated with e-waste.	Supporting repair and refurbishment services can extend the lifespan of electronics.
<u>Source depletion</u>	To promote responsible consumption and extend the lifespan of electronic devices. Encouraging repair, refurbishment, and resale of electronics can help reduce the demand for new resources. By adopting a circular economy approach and minimizing waste, we can contribute to the sustainable management of resources.	Source depletion is the concept of a circular economy. In a circular economy, resources are used more efficiently, and materials are recycled and reused to minimize waste and the need for new resources. This approach focuses on designing products that are durable, repairable, and recyclable.

Methodology

Webinar;

Topic: “E-waste and its management”

Conclusion

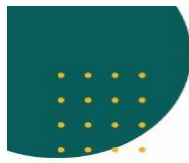
A webinar conducted on 29, Nov, 2023 was one of a great achievements in overall project, and I will briefly mention some points from speaker as conclusion. When it comes to the topic of e-waste and its management, it's clear that it's an important issue that requires our attention. Through proper e-waste management, we can protect the environment, conserve resources, ensure health and safety, promote energy efficiency, and extend the lifespan of electronic devices. By raising awareness and taking action, we can make a positive impact on the environment and create a more sustainable future.

Key indicators	Activity/ project	Data Outcomes
Change in attitudes and behavior of participants	Overview of importance of sustainable environment and its future consequences	Participants adopt new behaviors related to e-waste and its management, such as using high lifespan products, recycling, or reducing electronic devices in their homes or workplaces.
number of attendees who share the information learned in the webinar with others	Situation of electronic waste in Pakistan	Participants show an increased understanding of the challenges facing low quality electronic devices, such as cables, overuse, and climate change
Number of attendees who register for future webinars or events on the same topic.	Tips on how to overcome from electronic devices and methods of recycling	Participants show an increased knowledge of the benefits of recycling and reuse of old devices, and how their actions can make a difference

Methodology

Webinar;

Topic: “E-waste and its management”



ECO-TECH INITIATIVE

WEBINAR

E-Waste & its management

WEDNESDAY

09:00 - 10:00 pm
29 NOV 2023



SPEAKER

Wazir Mubarak ali

Senior Television Engineer
PTV corporation
Islamabad

ZOOM APP



Supporting initiatives that focus on recycling and refurbishing electronic devices is a significant step towards a more sustainable future. Many organizations work tirelessly to recover valuable materials from e-waste and give devices a second life. By supporting these initiatives, we contribute to reducing the environmental impact of electronic waste, which are key drivers of economic growth and development. A total of 30+ people joined this webinar. It was throughout a successful activity. Thanks to all the people who cooperate with us.

Methodology

Seminar;

Topic: “E-waste management strategies”



DEPARTMENT OF GOVERNANCE & PUBLIC POLICY

“E-WASTE MANAGEMENT STRATEGIES”

ABOUT THE SEMINAR

“Join us for an insightful seminar on e-waste and learn about the importance of responsible disposal. We'll explore strategies to minimize e-waste and promote recycling, ensuring a sustainable future for our planet. Don't miss out on this opportunity to expand your knowledge and make a positive difference. See you there!”

ON WEDNESDAY, 20DEC, 2023

ROOM 23, BASEMENT, IBN KHALDUN BLOCK

START AT 3:30PM - 4:45 PM

GUEST SPEAKERS

- HAMID IQBAL**
senior manager at (RWMC)
- MUHAMMAD ARMUGHAN**
Research associate at (PIDE)
- ORGANIZER**
Team Eco-Tech Initiative



Addressing management strategies is essential for the well-being of communities and the sustainable development of countries. It requires a concerted effort from all sectors and stakeholders, and a commitment to continuous improvement and collaboration. A total of 40+ people join this seminar and seek information. They also learn how to tackle different condition about e-waste. We received a positive response from the candidates.

Methodology

Seminar;

Topic: “E-waste management strategies”

Conclusion;

Based on the seminar on e-waste management strategies, it is clear that addressing this issue requires a multi-faceted approach. Effective e-waste management strategies include promoting responsible recycling and proper disposal, encouraging sustainable consumption, and supporting repair and refurbishment services. It is crucial to raise awareness and educate individuals about the environmental and health risks associated with e-waste. Additionally, collaboration between governments, manufacturers, and communities is essential to implement regulations, design more sustainable products, and establish effective recycling programs. By adopting these strategies, we can work towards minimizing the negative impacts of e-waste and creating a more sustainable future.

Key indicators	Activity/ project	Data Outcomes
Change in attitudes and behavior of participants	Overview of importance of sustainable environment and its future consequences	Participants adopt new behaviors related to e-waste and its management, such as using high lifespan products, recycling, or reducing electronic devices in their homes or workplaces.
number of attendees who share the information learned in the webinar with others	Situation of electronic waste in Pakistan	Participants show an increased understanding of the challenges facing low quality electronic devices, such as cables, overuse, and climate change
Number of attendees who register for future webinars or events on the same topic.	Tips on how to overcome from electronic devices and methods of recycling	Participants show an increased knowledge of the benefits of recycling and reuse of old devices, and how their actions can make a difference

Brochure *distribution among people* about E-waste & its negative impact on environment

"Spread the Knowledge, Fight E-Waste! Join us as we raise awareness about the impact of electronic waste on our planet. Together, we can make a difference and promote sustainable practices. Discover the importance of responsible recycling, sustainable consumption, and supporting repair services. Let's educate others about the environmental and health risks associated with e-waste and encourage everyone to take action.



Figure 1 in Numl Ibn e khalidun block



Figure 2 with dean of faculty of social sciences

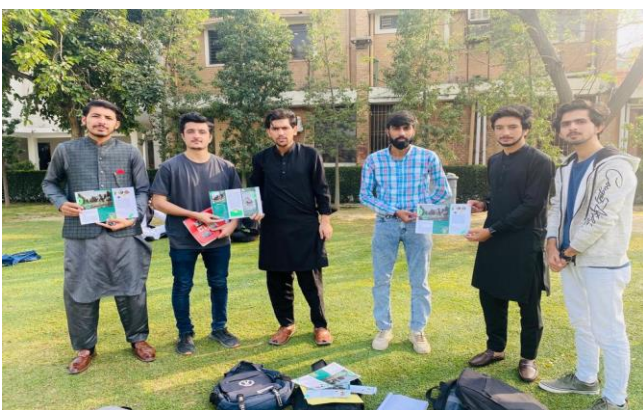


Figure 3 in Numl ghazali block



About E-Waste

E-waste, also known as electronic waste, refers to discarded electronic devices such as computers, smartphones, and TVs. These devices contain valuable materials like metals and plastics that can be recycled. However, if not handled properly, e-waste can have harmful effects on the environment and human health. It's important to recycle e-waste through certified recycling centers to prevent pollution and promote sustainable resource management. By responsibly disposing of e-waste, we can contribute to a cleaner and healthier planet for future generations. Let's do our part in reducing electronic waste and protecting our environment! ♻️

Main Goals

our broader goals would involve spreading awareness about the importance of responsible electronic consumption, encouraging the adoption of eco-friendly technologies, collaborating with manufacturers to design more sustainable products, advocating for policy changes to enforce proper e-waste disposal, and establishing convenient and accessible e-waste collection and recycling systems. Together, we can make a significant impact on reducing e-waste and creating a greener future for everyone! 🌱



Project supervisor
Mr. Ali Shaqat (lecturer at department of governance and public policy NUMU)



Vision

The vision is how to reduce e-waste. There are three main methods to reduce e-waste:

1. Reuse;
2. Reduce;
3. Recycle.

Reduce, reuse, and recycle are three important practices to help protect the environment. Reduce means using less resources, reuse means finding new uses for items instead of throwing them away, and recycling means converting materials into new products.

Team Members



The incredible members of our team. We have a skilled graphic designer who brings our creative vision to life with stunning visuals. Our talented content writer crafts engaging and persuasive messages to captivate our audience. Our videographer expertly captures the essence of our events on camera. And last but not least, we have not one, but two dedicated event managers who ensure that every event is flawlessly executed. Together, we make a dynamic team that's ready to take on any challenge!

Mission

our mission is to educate people about the importance of responsible electronic consumption, encourage the repair and refurbishment of electronic devices, and advocate for sustainable manufacturing practices. Together, we can make a big difference! ♻️

Contact Us

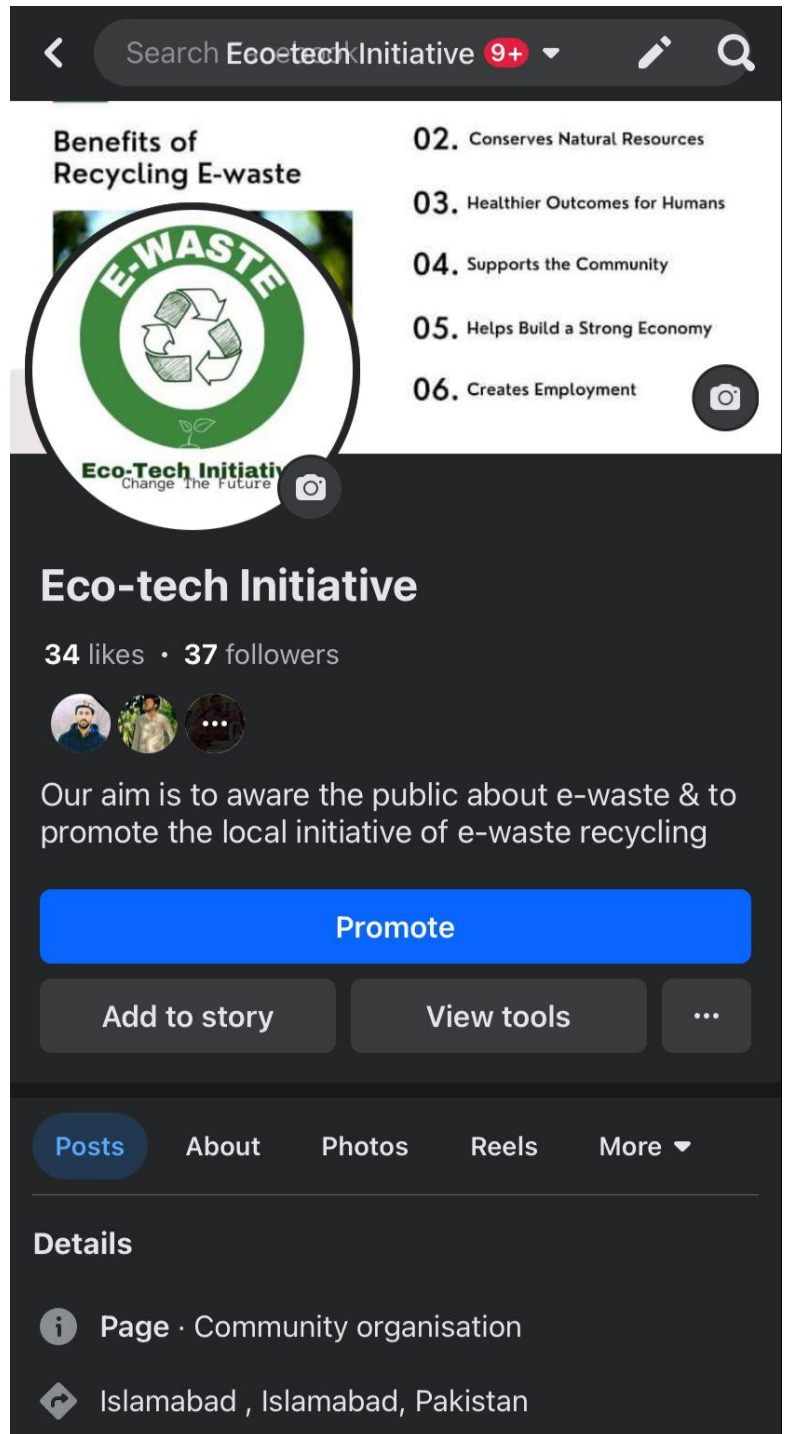
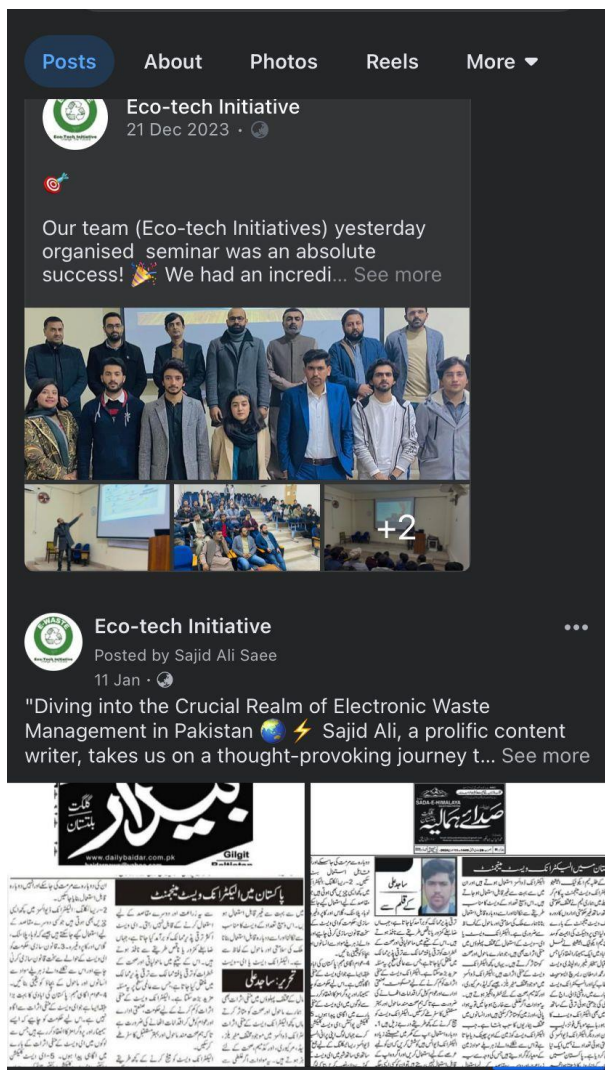
✉️ Small0070@gmail.com
 🌐 Facebook page: Eco-tech initiative
 🏠 H9 NUMU, Islamabad



Social Media

Facebook page: Eco-tech Initiative

“It’s crucial to spread awareness about sustainable practices and inspire others to make a positive impact on the environment. By sharing informative posts, tips, and resources, you can encourage your followers to adopt eco-friendly habits, reduce waste, and make sustainable choices in their daily lives”



Implementation and progress

Visit to Rawalpindi waste management company (RWMC)

"On October 30th, 2023, the eco-tech initiative team visited RWMC to conduct interviews with professionals regarding the prevalence of e-waste problems in Pakistan and the areas that are most at risk. The team sought to understand the current ratio of e-waste in the country, as well as the appropriate methods for treating and preventing these problems. **Mr. Bilal Niazi** were among the professionals interviewed and provided insightful and specialized responses to the team's inquiries. The interviewer presented detailed perspectives on the causes, effects, and treatments of e waste."



Visit to Petro waste Bluster (e-waste Company)

On a recent visit to the petro waste blusters located in F-6 Islamabad, the team had the opportunity to engage with local residents and share information about the United Nations Sustainable Development Goals. The objective of this visit was to conduct interviews with community members to gather information about the types of electronic devices they are using for daily consumption and the challenges they face due to lack of e-waste information. The feedback received from the community was insightful and informative. This visit was deemed successful and the team is pleased to share a picture of their team along with a poster outlining the goals of SDG's.



The session aimed to raise awareness on the importance of utilizing electronic gadgets and the potential long-term health effects associated with the e-waste. The participants were attentive and receptive to the information provided, and demonstrated a clear understanding of the potential dangers of e-waste."



Survey reports

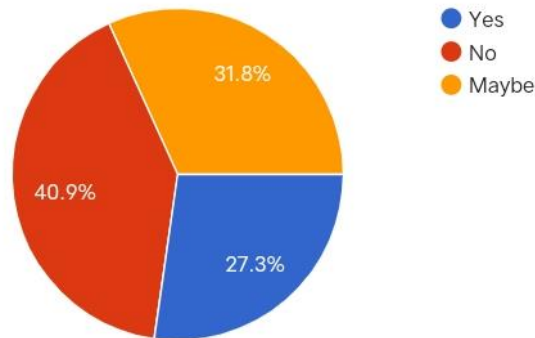
Including all visits and platform information

We also had a QnA session with people. We asked them questions about e waste. They answered the question from teachings of our held webinars etc. Following are some important questions from the survey taken:

Do you have electronic waste?

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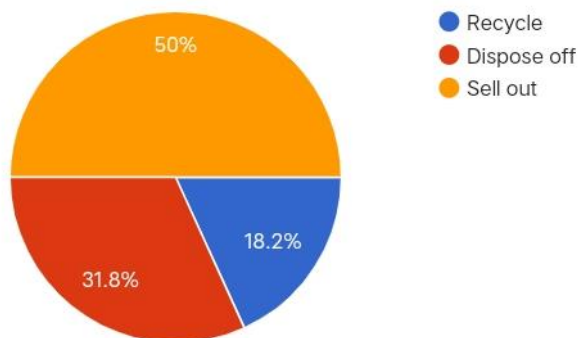
22 responses



What is your treatment towards electronic waste?

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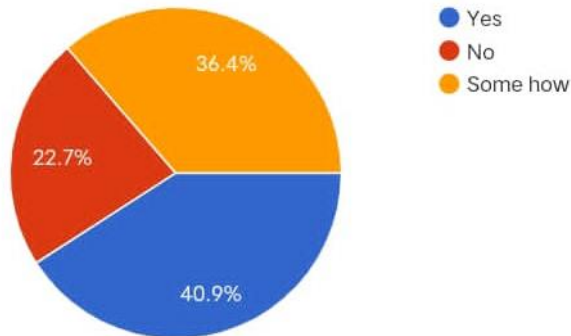
22 responses



Are you aware about the environmental impact of electronic waste?

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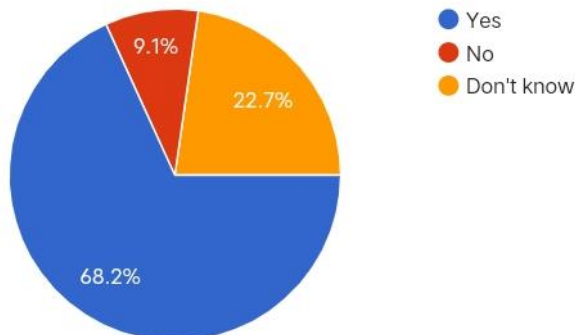
22 responses



Can valuable materials can be recovered from electronic waste?

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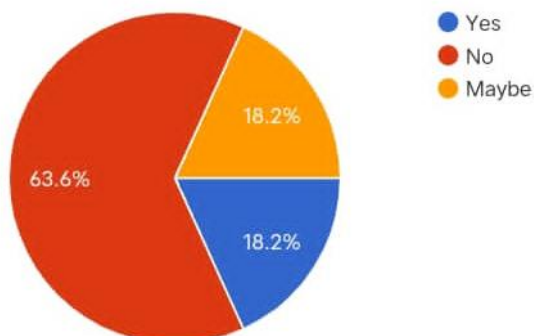
22 responses



Do you think there is enough information available for public about the proper treatment of electronic waste?

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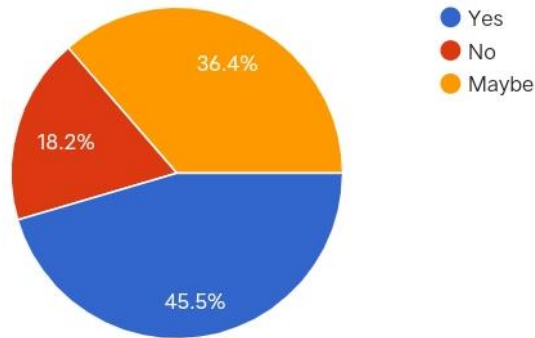
22 responses



Do you believe that manufacturer should be responsible for recycling of their product's waste?

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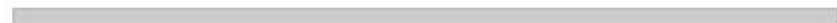
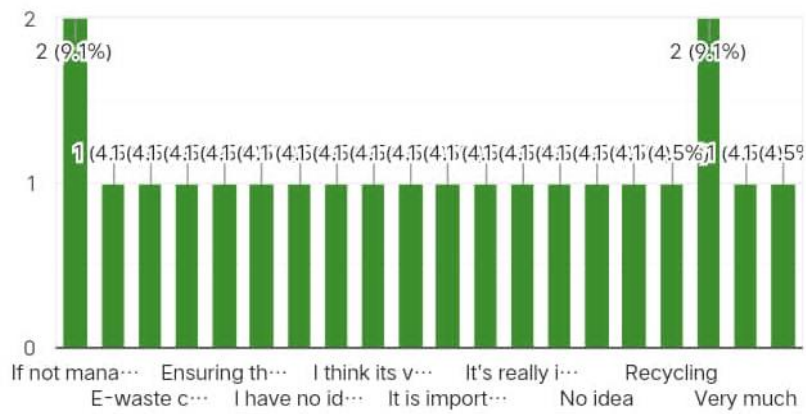
22 responses



How important do you think it is for the community to ensure the safe treatment of electronic waste?

 Copy

22 responses



Article publication in newspaper

We've just published an article about e-waste and its impact in the local newspaper. In the article, we highlighted the environmental and health risks associated with improper e-waste disposal, as well as the importance of responsible recycling and sustainable practices. We also discussed the need for stricter regulations and increased awareness to tackle this issue effectively. It's exciting to see our efforts in spreading awareness reaching a wider audience through the newspaper.



پاکستان میں الیکٹرانک ویسٹ مینجمنٹ

پاکستان میں الیکٹرانک ویسٹ مینجمنٹ کے لیے زرعت اور دوسرے مقاصد کے لیے استعمال کرنے کے قابل نہیں رہتی۔ ای ویسٹ سے نکالنا اور اسے دوبارہ قابل استعمال بنانا مہنگا ہے۔ الیکٹرانک ویسٹ یا ای-ویسٹ کے خطرناک کوئی بھی ممالک سے ترقی پزیر ممالک میں منتقل کیا جاتا ہے، جس سے ممالک پر یہ مسئلہ مزید بڑھ سکتا ہے۔ الیکٹرانک ویسٹ کے مٹی کے اثرات کو کم کرنے کے لیے حکومت مہنتی ادارے اور عوام کو مل کر اقدامات اٹھانے کی ضرورت ہے تاکہ ہم صحت مند ماحول اور بہتر مستقبل کا سہلے کر سکیں۔

الیکٹرانک ویسٹ کو صحیح کرنے کے کچھ طریقے درج ذیل ہیں۔ 1۔ دوبارہ استعمال: آپ کے گھر میں جیتنے زیادہ الیکٹرانک ڈیوائس ہیں کوشش کریں کہ ان کو بے عرصے کے لیے استعمال کریں اور اگر وہ آپ کے قابل استعمال نہیں رہتے ہیں تو ان کو کسی ایسی جگہ بیچ دیں جہاں

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Conclusion

- E-waste is a pressing global issue that requires immediate attention.
- Improper disposal of electronic devices leads to environmental pollution and health risks.
- Effective e-waste management strategies include responsible recycling, sustainable consumption, and repair services.
- Collaboration between governments, manufacturers, and communities is essential for implementing regulations and establishing recycling programs.
- Raising awareness about e-waste and its impact is crucial to inspire individuals to take action.
- By promoting sustainable practices and responsible e-waste management, we can create a greener future for generations to come.



Future reconditions

- Implement stricter regulations and policies to ensure proper disposal and recycling of electronic waste.
- Encourage manufacturers to design products with longevity and recyclability in mind.
- Promote consumer education and awareness about the importance of responsible e-waste management.
- Establish convenient and accessible e-waste collection centers for easy drop-off and recycling.
- Invest in research and development of innovative technologies for e-waste recycling and resource recovery.
- Foster partnerships between governments, businesses, and communities to create comprehensive e-waste management systems.
- Support initiatives that promote the circular economy, where e-waste is recycled and reused to minimize resource depletion.



Eco-Tech Initiative
Change The Future



Thank you

FOR YOUR ATTENTION

"WE WOULD LIKE TO EXTEND OUR HEARTFELT GRATITUDE TO EVERYONE WHO HAS CONTRIBUTED TO THE SUCCESS OF THIS PROJECT. THE DEDICATION AND SUPPORT OF OUR TEAM MEMBERS, PARTNERS, SPONSORS, AND VOLUNTEERS HAS BEEN INVALUABLE. WE WOULD ALSO LIKE TO THANK THE COMMUNITIES WE HAVE WORKED WITH FOR THEIR COOPERATION AND WILLINGNESS TO PARTICIPATE. YOUR CONTRIBUTIONS HAVE MADE A SIGNIFICANT IMPACT ON IMPROVING ACCESS TO CLEAN WATER AND SANITATION IN THE REGION. WE LOOK FORWARD TO CONTINUING OUR EFFORTS TOWARDS ENSURING SUSTAINABLE AND EQUITABLE ACCESS TO THESE ESSENTIAL RESOURCES FOR ALL.

THANK YOU."