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SUSTAINABLE E-WASTE MANAGEMENT PRINCIPLES AND PRACTICES

# SUSTAINABLE E-WASTE MANAGEMENT

## PRINCIPLES AND PRACTICES



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# **Sustainable E-Waste Management: Principles and Practices**

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# TABLE OF CONTENT

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<i>Preface</i>	<i>iii</i>
<b>CHAPTER 1</b>	<b>1</b>
Successful E-Waste Management Projects in India: Case Studies <i>Dr. S. Fatima Zahara Jafri &amp; Dr. Syed Irfan Haider Jafri</i>	
<b>CHAPTER 2</b>	<b>27</b>
Best Practices for Sustainable E-waste Management in a Globalized World <i>Dr. Syed Mohsin Raza</i>	
<b>CHAPTER 3</b>	<b>36</b>
E-waste Recycling Processes; Impact on Human Health and the Environment: Challenges and Solutions <i>Dr. Syed Nuzhat Husain &amp; Dr Waheed Alam</i>	
<b>CHAPTER 4</b>	<b>49</b>
An Overview of E-Waste Recycling Technologies: Difficulties and Prospects <i>Dr. Prabodh Kumar Garg</i>	
<b>CHAPTER 5</b>	<b>59</b>
Can AI and IoT Rescue India from its Own E-Waste Crisis or Will We Just Have Smarter Trash? <i>Dr. Tulika Singh</i>	
<b>CHAPTER 6</b>	<b>75</b>
Socio - Economic Impact of the E-Waste In Third World Countries <i>Dr. Chhatra Pal &amp; Dr. Pulkit</i>	
<b>CHAPTER 7</b>	<b>86</b>
Indian Laws and Judicial Perspectives on the Management of E-Waste <i>Mr. Kamaljeet Mani Mishra &amp; Dr. Vinay Kumar Tiwari</i>	
<b>CHAPTER 8</b>	<b>98</b>
E-Waste Management Strategies: Mitigating Health Hazards Posed by E-Waste Chemicals <i>Mr. Abdussalam &amp; Dr. Nazia Iqbal</i>	

## CHAPTER 8

# E-Waste Management Strategies: Mitigating Health Hazards Posed by E-Waste Chemicals

*Mr. Abdussalam\* & Dr. Nazia Iqbal\*\**

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### ABSTRACT

*This abstract provides an overview of the environmental and health hazards associated with electronic waste (e-waste) and the chemicals contained within it. E-waste, a complex mixture of metals, plastics, and other substances, poses significant risks due to the presence of hazardous compounds. Improper handling and disposal of e-waste can lead to the release of toxic chemicals such as lead, mercury, cadmium, and flame retardants which can have detrimental effects on human health and the environment. This abstract highlight the importance of proper recycling and disposal practices to mitigate the environmental and health impacts of e-waste chemicals. Additionally, it emphasizes the need for effective legislation and international collaboration to address the challenges posed by e-waste and ensure sustainable management practices for electronic waste.*

**Keywords:** E-waste, Toxic chemicals, Health hazards, Disposal of e-waste.

### WHAT IS E-WASTE?

E-waste, stands for electronic waste or WEEE stands for Waste Electrical and Electronic Equipment refers to discarded electronic devices that are no longer wanted or functional. The rapid advancement of technology has led to a proliferation of electronic devices, resulting in the generation of electronic waste, commonly known as e-waste [1] Electronics industry have led to one of the fastest growing waste streams in the world which consist of end of

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