

## CHAPTER-13 RESPONSIBLE AND SUSTAINABLE ELECTRONICS WASTE MANAGEMENT

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### **Abstract:**

Electronic waste or e-waste is one of the quickest developing area of the global waste stream and is expanding at a lot higher rate than all other waste streams. Main focus of the current study is electronics waste (e-waste) which is growing as a serious environmental challenge for coming days. The rapid sell and use of electronic products, discarded electronics equipment has become a matter of concern as it contains hazardous and toxic substances. Computers are made from more than 1,000 materials, a considerable lot of which are harmful and they contribute considerably to the e-waste stream, which is assessed to be ca. 20 to 50 million tons every year at the same time E-waste, while reusing or recycling is likewise dangerous because of harmfulness of some of the substances which contains different cancer-causing elements. Different methods adopted by different nations to manage the e-waste by reusing, re-manufacturing, extending producer responsibility and standard to the sustainable management of e-waste.

**Keywords:** E-Waste, WEE, Sustainable Waste Management

### 13.1 Introduction

Waste electrical and electronic equipment (WEEE) or Electronic waste (E-waste) is a vital flow of waste in the modern-day global environment. Electronics waste is the quickest developing waste stream in the industrialized and urbanized world. [1] Last 10years back, the quantity of waste generated was treated as small enough to be diluted within the environment. With enormous development of hardware and electronics area, the requirement of the hardware items has been improved complex. The quicker change of different features in the electronic gadgets and in the hardware with accessibility of the improved items driving the users to dispose the electronics