

## Global E-waste Monitor (GEM) Report 2024

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Environment, Ecology & Disaster Management

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The United Nation's fourth Global E-waste Monitor (GEM) report was released by International Telecommunications Union (ITU) and United Nations Institute for Training and Research (UNITAR).



[Ref: UNITAR]

### **About the report:**

- The Global E-waste Monitor (GEM) report is a collaborative effort among the **United Nations Institute for Training and Research (UNITAR)**, **International Telecommunication Union (ITU)**, and **Fondation Carmignac**.
- UNITAR's role in this collaboration is to enhance global decision-making by providing innovative learning solutions aimed at creating a better future.

### **Key Findings:**

- The report outlines a significant increase in global e-waste, quantifying it at **62 million tonnes in 2022**.
  - It is forecasted to grow by **32% to 82 million tonnes by 2030**, marking an **82% rise since 2010**.
- Currently, recycling meets only **1% of the rare earth element demand**. With a recycling rate of **22.3% in 2022**, the world risks losing **USD 62 billion in recoverable resources**.
- The e-waste composition includes hazardous materials, comprising **31 billion kg of metals** and **17 billion kg of plastics**, posing significant health and environmental risks.
- Projections indicate that the global recycling rate could decline to **20% by 2030**, exacerbating the recycling gap.
- There is a silver lining as enhancing recycling rates to **60% by 2030** could result in economic benefits surpassing costs by **USD 38 billion**.
  - However, current recycling inefficiencies result in an economic loss of **USD 91 billion**.

### **India:**

- India is among the top e-waste generators, with a significant increase in e-waste recycling capacity from approximately **148 million kg in 2010 to over 3 billion kg**.

- The number of authorized recyclers has grown from **23 in 2010 to over 400**.