

GREEN CHRONICLE



One step from e-waste to

E-WASTE POLICY

DC CORRESPONDENT CHENNAL APRIL 3

The Tamil Nadu government unveiled its policy on e-waste and management in 2010 with an objective of minimising e-waste generation and using e-waste for the benefit cial purposes through environmentally sound recy

The policy, designed by the Elcot, also aimed at ensuring environmentally sound disposal of residual waste and create an efficient and uniform infrastructure for col-lection, utilisation and disposal of e-waste.

The policy made it mandatory for owners and generators of e-waste to properly recycle through recyclers, authorised by the state pollution control board and facili tate establishment of adequate numbers of adequate authorised e-waste collection centres.

It was also decided to support the development of mar-kets for recyclable materials and insist for the submission of Restriction of Hazardous Substances (ROHS) by bidders in respect of tenders

government/organisations.
The policy also aimed at reating awareness through information and education programmes on e-waste man agement to all sections of the society and create a data base on best global practices and failure analysis for development and deployment of efficacious e-waste management and disposal practices within the state

It became mandatory for all electronic equipment manufacturers and bulk con-sumers of such equipments to maintain an inventory of all the individual component despatched goods including the inventory of rejected

However, even after two years of the ambitious policy, there has not been much progress in disposing of the waste generated by households, software companies and manufacturing units and

government departments. With IT revolution in tier II and tier III towns in the state, e-waste has already put strain in landfills in the state. Throwing e-waste in street bins is still considered as an easy method of disposa in many cities in the state

What is your take on e-waste?

e-resource

DC takes the green initiative forward by discussing the prospects of safer disposal of e-waste aimed at safeguarding future generations

N. ARUN KUMAR I DC CHENNAL APRIL 3

Don't call them e-waste, but e-resources. This is students Geography department at University of Madras said in reaction to Deccan Chronicle's ewaste campaign. K. Arun Kumar, a sec-

ond-year applied geology student, said look at foreign countries - they dismantle computers, monitors, cell phones and other electronic gadgets to produce a recycled. new product. So, it is not fair to call them e-waste as they become an excellent resource for producing gadgets, he argued.

"A small circuit could have gone wrong in a phone but another mobile may need the other parts of that cell phone. So, we can minimise e-waste by com-bining items," he said.

Adarsh, a second-year spatial information technology student University of Madras, said in the current scenario, papers and other items cannot be termed as waste as they can be recycled. But it's difficult to recycle computers, cell phones and other electronic items as they need special treatment and process to reprocess them.

With every third person in the country having two cell phones and cell phones penetrating the rural areas also, we have a large pile of ewaste in every city and town in the country," he

Pointing out that it's difficult for an institulike Madras University to dispose of scanners computers. and printers, Adarsh said such electronic items become obsolete within six months, which makes it difficult for institutions to dump them in a safe manner.

Fellow student Varun said companies should encourage people to give their obsolete electronic goods for a nominal cost so that more people would get interested to join the ini-

"As is being done in foreign countries, there should be a system to collect e-waste and give us money so that it would be easy for people to get rid of their e-waste rather than dump it in some dustbin," he said.

Time ripe to get things going

- Although e-waste constitutes less than 1 per cent of the total wastes generated in India, it is growing at 2-3 per cent per year.
- The mantra of 'reduce, reuse, and recycle' applies to e-waste as well.



Come, let's find ways to dispose e-waste

gets are tomorrow's e-waste. E-waste encompasses refrigerators. air-conditioners, televicomputers and mobile phones. E-waste disposal has become a major environmental concern in recent times.

Although e-waste constitutes less than 1 per cent of the total wastes generated in India, it is growing at 2-3 per cent per year, com-pared to other wastes.

E-waste comes from households, large and small businesses, instituand government offices. Electronic equipnot because they are broken, but simply because new technology has left them outdated or undesir-E-wastes, especially com-

outers, contain large quantities of toxic substances that pose health and environmental hazards. These toxic materials include cadmium, barium. highly flammable plastic, mercury and gases. When thrown into the water - as we do with other waste-ewastes kill fish and wildlife and damage people's health.

E-waste is most often



Plain Talk

dumped in landfills where garbage is piled up and eventually covered with soil. Sometimes, it is burnt in incinerators or open pits. Burning of e-waste leads to formation of toxic

furan, which can contaminate the atmosphere. In developed countries, ewaste recycling takes place in recycling plants under controlled conditions. In India and other developing countries, there are no such controls. Recycling is done by hand in scrap yards, often by children.

Industrialised nations like USA, being the largest consumers of electronic goods, often dispose their e-waste by exporting them to underdeveloped nations Thus, India along with other Asian and African countries is increasingly

ground for hazardous ewaste due to cheap labour and lower disposal costs and lax or no enforcement of environmental laws.

There is also a need to promote eco-friendly techniques for the recovery and recycling of e-waste. Manufacturers should take responsibility and involve in product take-back remanufacturing redesigning. The mantra of 'reduce, reuse, and recycle applies to e-waste as well.

> The writer is director. C.P.R Environmental Education Centre

HOW NATIONS FIGHT E-WASTE

UNITED STATES OF AMERICA

In 2011, The U.S. government launched this strategy for responsible

electronic design, purchasing, management and recycling in order to promote the burgeoning electronics recycling market. As outlined in the strategy report, the federal government said that it will:

 Promote the development of more efficient and sustainable electronic products

Direct federal agencies to buy, use, reuse and recycle their electronics responsibly

 Support recycling options and systems for American consumers
Strengthen America's role in the international lectronics stewardship arena.

"Leadership Initiative' is an industry-led effort launched in April 2011 to collect and recycle 1 billion pounds (450,000 annually by 2016. It is coordinated by CEA (Consumer Electronics Association) and aims to holster consumer education of e-Cycling and recycling locations and

infrastructure needed.

e-waste statistics are surprisingly shocking.

 Computers are considered to be the most frequently upgraded electronic device and as such contribute greatly to the disastrous E-Waste statistics. Within Australia, 500,000 computers were recycled in

the year 2006. . While this may at first seem like a great figure, com pare it to the 1.6 million simply thrown away, 1.8 million in storage and 5.3 million simply sitting unused on shelves and gathering dust. Add to this the estimated 2.4 million new computers Australians are estimated to buy each year and that gives a slight insight into the e-

Chain of recycling and disposal

plastics, waste metal.

E-wastes are sold by producers to small peddlers (Informal sectors)

Secondhand products resold to the market for reusing

Recovery of valuable items and metals, such as steel and Iron, waste

Key policy tools for e-wastes management Encouraging the formal collection system of ewastes;

Funding support for e-wastes sectors with good

economic instrument: Research on some key advanced technology of

recycling of e-wastes; National demonstrations for eco-town construction in Qingdao

- Compiled by Manish Kumar

