## **UNIT-IV THE GLOBAL IMPACT OF E-WASTE**

Actions To Be Considered To Achieve Goals Of E-Waste Management  $\rightarrow$  Actions that are listed in this section could be considered in India while making and implementing new legislation and initiate the use of suitable instruments for e-waste management according to stated goals.

Goal 1 Producers collect and recycle discarded appliances as well as provide necessary

funding (implementing EPR)

Procest Situation	Possible Actions	What is Needed	Posults Are Depending On
Present Situation		What is Needed	Results Are Depending On
High costs of compliance	Imposing responsibilities	Legislation and	The willingness of
and lack of regulation does	expressed into targets to	enforcement have to	producers to accept
not create favourable	be achieved by producers.	encourage producers to	responsibilities.
conditions for producers to		accept responsibilities and	
accept EPR.	Ensuring that all producers	assist producers to achieve	The presence of sanctions
	contribute to e-waste	targets.	in case producers fail to
	management equally.		achieve their targets.
		EPR must be affordable;	
	Generate information on	costs have to be	
	collecting and recycling of	proportionate to its	
	e-waste.	purpose.	
		Targets have be stated	
		smart.	
No reliable information on	Generate information on	Producers have to (be able	Availability of means to
collection and recycling of	collecting and recycling of	to) provide reliable	weigh and record waste.
e-waste	e-waste.	information on e-waste	weight and record waste.
e-waste	e-waste.	collected and recycled.	proper information
		confected and recycled.	technology
			teciniology
Responsibilities are likely to	Implementing effective EPR	Monitoring responsibilities	The extent to which
be evaded.	instruments and e-waste	must take manageable	legislation and
	legislation.	effort for administration	enforcement is helping
		and enforcement.	producers to meet targets.
	Assessing and if required		
	adapting instruments and		Effectiveness of monitoring
	legislation.		by government

Goal 2 all producers own up responsibility and contribute to e-waste management			
Present Situation	Possible Actions	What is Needed	Results Are Depending On
Little understanding of producers and the numbers of appliances put on the market.	Introducing a system to register new appliances, how producers fulfil their obligations, and to evaluate results.	Monitoring and enforcement must require manageable effort from the government.  Producers have to provide reliable information on products put on the market as well as e-waste collected and recycled.	The presence of a register in which all producers of appliances are recorded as well as how each producer complies with obligations.

Goal 3 Tasks and duties for compliance are distributed effectively and clearly (creating compliance systems)			
Present Situation	Possible Actions	What is Needed	Results Are Depending On
an unregulated market of	inviting parties to set up	the number of compliance	effectiveness of restrictions
e-waste impedes regulated	compliance systems.	systems should be limited	and government support to
collection of appliances.		to be manageable.	legal collection.
	authorizing parties to set		
	up compliance systems.	the burden on	
		governmental capacity	
	creating a regulated take	should be manageable.	
	back system.		
		compliance systems should	
	contracting collection	achieve the highest	
	points, transporters and	recycling targets and	
	recyclers that can process in the required way.	efficiencies.	
	in the required way.	compliance systems should	
		operate independently of	
		the individual interests of	
		producers.	
		producers.	

Goal 4 E-waste is collected and transported to authorised agencies/recyclers			
Present Situation	Possible Actions	What is Needed	Results Are Depending On
High value leads to an unregulated trade of ewaste and unregulated collection channels.	Creating closed (regulated) take back systems.	Regulated take back system must incorporate existing collection channels as much as possible.	The willingness of consumers to hand in discarded equipment depends on a financial reward equal to the market price.
Collection is profit-driven and e-waste is brought to the highest bidder.	Create legal collection centres that pay market prices.  Raising awareness regarding disposal facilities.  Raising awareness about impact on environment.	Equal financial reward to be paid out by legal recyclers.  Collection must remain affordable.  Regulated take back system must not lead to loss of employment.	Producers willing to fund appropriate recycling.
Lack of data collected e- waste.	Improve information on collecting and recycling of e-waste.	Effective monitoring of collected appliances and prices.	Producers willing to fund appropriate recycling.

Goal 5 E-waste is processed and recycled adequately			
Present Situation	Possible Actions	What is Needed	Results Are Depending On
processing and recycling of e-waste largely causes environmental issues and affects health of workers.	introducing recycling standards.	innovating recycling technologies must be affordable.	availability of funds to invest and buy technologies.
capacity and technologies of recyclers are insufficient	promote creation of large scale recycling plants.	new recycling facilities must take employment interests into account.	Willingness of investors to invest in recycling plants.
lack of data available on appliances processed and recycled.	innovating recycling technologies.	recyclers to provide reliable data.	the sharing of technologies by large (international) recyclers. a commitment of compliance systems for long-term cooperation with recyclers.

Goal 6 Good information to regulator and policy makers about compliance			
Present Situation	Possible Actions	What is Needed	Results Are Depending On
lack of information on whole cycle of e-waste management	creating register and monitoring agencies as part of producer's responsibility.	register and monitoring agencies must be reliable and independent of producers.	Generation of good quality information and indicators.
Government's capacity for monitoring is limited.	Focusing monitoring tasks of government on:  - assuring reliability of collection and recycling data and evaluating results;  - equal contribution to e-waste management by producers;  - mobilisation and use of funds by producers.	required information must be available and provided.  sanctions must be in place if regulations are not adhered to.  monitoring should be simple but still effective enough to be able to observe deviations.  monitoring should include on-site examination.	availability of capacity and financial resources by government and independent monitoring agency.  Willingness of producers to fund register and monitoring agency.

Goal 7 Sufficient funding available for collecting and recycling			
Present Situation	Possible Actions	What is Needed	Results Are Depending On
only e-waste with sufficient	Fund the collection and	Funding must be	Willingness of consumer
resale value is collected	recycling of all types	transparent and	and/or producer to pay a
and	of e-waste, particularly	information made available	fee.
recycled.	kinds with hazardous	to the public.	
	materials.		legislation implemented by
prices do not take		Funds must be sufficient,	government to regulate
environmentally sound		yet not be	funding.
processing into account		excessive and strictly	
		limited its purpose.	
		direct access of producers	
		to funds should	
		be made impossible.	
		Funding must be	
		monitored by public	
		bodies.	

Goal 8 awareness among citizens regarding toxicity and hazards of improper e-waste disposal			
Present Situation	Possible Actions	What is Needed	Results Are Depending On
insufficient knowledge of the environmental impact and health risks of handling e-waste.	selecting a party responsible for creating awareness (either government or producer).	use of various types of media to ensure that all layers of the population understand the message.	ectiveness of the message and the chosen media.  availability of financial resources
disposal of appliances is driven by the value of the materials only.	setting measurable goals.	smart targets to be achieved must be set by government.	