

International Training Programme on “Circular Economy for Sustainable Governance”

Overview of Circular Economy and Policy Landscape

- ☞ Definition and principles of circular economy
- ☞ Historical context and evolution
- ☞ Importance for sustainable development
- ☞ Analysis of national and international policies
- ☞ Case studies on successful policy implementations

Circular Economy in Municipal Solid Waste (MSW)

- ☞ Overview of Municipal Solid Waste
- ☞ Composition and characteristics of MSW
- ☞ Challenges associated with landfilling and incineration
- ☞ Circular Approaches to MSW Management
- ☞ Waste hierarchy and reduction strategies
- ☞ Waste-to-energy and resource recovery
- ☞ Promoting recycling at the community level
- ☞ Zero-waste initiatives and their impact

Field Visit: Field visit to MSW recycling facilities

Circular Design Principles

- ☞ Cradle-to-cradle design philosophy
- ☞ Eco-design and sustainable product development
- ☞ Design thinking for circularity

Circular Economy in Wastewater

- ☞ Wastewater Treatment in a Circular Context
- ☞ Circular water management systems
- ☞ Reuse and recycling of treated wastewater
- ☞ Innovations in Wastewater Treatment
- ☞ Emerging technologies for sustainable water treatment
- ☞ Closed-loop water systems in industries

Field Visit: Field visit to wastewater recycling facility

Circular Business Models and Circular Economics

- Circular business models and success stories
- Sharing economy and collaborative consumption
- Product-as-a-Service (PaaS)
- Circular supply chains and logistics
- Economic benefits of circularity
- Job creation and economic growth

Circular Economy in E-Waste

- Introduction to E-Waste
- Environmental and health impacts of improper e-waste disposal
- E-Waste Management in a Circular Economy
- Extended Producer Responsibility (EPR)
- Recycling and upcycling of electronic components

- Case Studies

Field Visit: Field visit to E-Waste recycling facilities
Circular Governance Framework

- ☞ Roles and responsibilities of government in circular economy
- ☞ Policy Development for Circular Economy
- ☞ Regulatory Frameworks and Incentives
- ☞ Enforcement and Compliance
- ☞ Monitoring and Enforcement Mechanisms
- ☞ Compliance Challenges and Solutions

Circular Economy and Li-Battery

- ☞ Li-Battery Lifecycle
- ☞ Circular Design in Battery Technology
- ☞ Sustainable materials and manufacturing processes
- ☞ Recycling and repurposing of battery components
- ☞ Current Challenges and Future Innovations

Field Visit: Field visit to battery recycling facility
Stakeholder Engagement and Communication

- ☞ Multi-stakeholder collaboration for effective governance
- ☞ Public-private partnerships for circular initiatives
- ☞ Communication strategies for awareness and engagement
- ☞ Case studies on successful stakeholder engagement

Circular Economy and Vehicle Scrapping

- ☞ End-of-Life Vehicle (ELV) Management
- ☞ Circular approaches to vehicle recycling
- ☞ Material Recovery and Reuse
- ☞ Circular design in the automotive industry

Field Visit: Field visit to Vehicle scraping facility