WREC Global Information Session on Waste Management

17 October 2023
Agenda

15.00-15.05H  Welcome and introductions (WREC)
15.05-15.20H  Waste management in the emergency operations (WREC)
15.20-15.50H  Donors’ perspective on Waste Management in emergency operations (ECHO and BHA)
15.50-16.10H  Group discussion: How to comply with environmental waste management standards (WREC)
16.10-16.25H  Open Q&A
16.25-16.30H  Wrap up & Next Steps: Waste Management Coordination sessions (WREC)
16.30H        Closing the session
WREC Project
Enabling humanitarian logistics partners to reduce their impact on the environment

• **Focus** on waste & greenhouse gas emissions
• **Increase** knowledge and awareness in the community
• **Support** practitioners in impact reduction

Expertise of over 500 Logistics Cluster partners and the broad reach of project partners

Sustained adoption of best environmental practice across the humanitarian logistics community
Objectives of the session

1. **Raise awareness** on the *environmental standards* on solid waste management in humanitarian emergencies.

2. **Collect partners’ insights** on how to comply with these standards and what is needed considering the emergency operational field constraints and gaps.

3. **Engage logistics partners** to participate in the upcoming Waste Management Coordination meetings.
Waste Management in Emergency operations

Waste Management Standards

- Do no harm principle
- Sphere Standards
- Guidelines on CE, SWM

- National SWM regulations
- Single use plastic bans
- Transboundary Hazardous waste Basel convention

How do we comply with these standards?
Waste Management in Emergency operations

Waste Management Hierarchy

1. Reduce
2. Reuse
3. Repurpose
4. Recycle/Compost
5. Energy recovery
6. Treatment/Disposal
Waste Management in Emergency operations

Waste Management Hierarchy

- Reduce
- Reuse
- Repurpose
- Recycle/Compost
- Energy recovery
- Treatment/Disposal
Waste Management in Emergency operations

Solid waste Management Hierarchy

Reduce
Reuse
Repurpose
Recycle/Compost
Energy recovery
Treatment/Disposal

Recycling & Waste management mapping
Compost, WASH CXB
Waste Management in Emergency operations

Solid waste Management Hierarchy

Reduce

Reuse

Repurpose

Recycle/Compost

Energy recovery

Treatment/Disposal

October 2023
Waste Management in Emergency operations
Where waste is generated and who is responsible?

<table>
<thead>
<tr>
<th>Humanitarian Supply chain</th>
<th>Responsible Department/Unit</th>
<th>1. Procurement (assessment and sourcing)</th>
<th>2. Transportation</th>
<th>3. Storage (Warehouses)</th>
<th>4. Distribution to:</th>
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WAREHOUSES

OFFICES & PREMISES

FLEET WASTE WORKSHOPS

AID SERVICES & GOODS
Waste Management in Emergency Operations

Crisis phase vs Waste management approach

ONSET CRISIS (24h to 3rd month)

- Waste collection and storage or temporary disposal
- Rapid Environmental Assessments (REA)
- WM Organizational preparedness (trained staff members, operational and procurement procedures).

RECOVERY PHASE (From 3rd month) Or PROTRACTED CRISIS

- Value chain initiatives on solid waste (composting, recycling, etc.)
- Construct safe disposal infrastructure
- Engage with developing actors

What can we do?

Credits: MSF, Costa Rica

Credits: UNDP, Cox’s Bazar
Waste Management in Emergency operations

Example of a Good Waste management system in a protracted crisis.

Journey of the Waste | Solid Waste Management (SWM) in Rohingya Camps, Cox's Bazar, Bangladesh - YouTube
Donors’ perspective on WM in humanitarian operations

Anja Pirjevec
DG ECHO – European Civil Protection and Humanitarian Aid Operations
Unit B.2. Prevention and Disaster Risk Management /Regional Office for Eastern and Southern Africa – Nairobi

Pablo Bredt Torres
USAid-BHA Bureau for Humanitarian Assistance
Team Lead - Latin America & Caribbean Region (LAC) Supply Chain Management Division
Sustainable solid waste management in humanitarian operations

What to expect from DG ECHO
Which MERs tackle waste management directly?

- Solid Waste Management
- Sustainable Supply Chains
- Food Assistance
- Public Health
- Nutrition
- Livelihoods
- Risk Informed Response
- Protection, Gender, Disability Mainstreaming
- Cash and Voucher Assistance
- Shelter & Settlements
- WASH
- CCCM
- Education in Emergencies
What we are trying to avoid

Waste accumulating near an IDP site in Somalia
What we are trying to avoid

Disposal of old tents in Iraq
How is DG ECHO promoting sustainable solid waste management in humanitarian settings?
What we are promoting

Solid waste upcycling center collecting and transforming waste produced by the humanitarian response
What we are promoting

Upcycling nutrition (PPN) packaging on site into various products
What we are promoting

Procuring sustainable packaging (locally produced from natural fibers, non single use) in which food and NFIs are distributed.
What we are promoting

Waste value recovery - from nutrition kit packaging to construction agglomerates
What we are promoting

Waste value recovery through pyrolysis - convert used oils and plastic bags into distillate diesel oil and gas.
Transformation of organic waste into carbonized and non-carbonized blocks of compressed biomass - briquettes

What we are promoting
USAID – Bureau for Humanitarian Assistance
Donor perspective on WM in humanitarian logistics
Funding opportunities:

- Inclusion of WM into Supply Chain Emergency guidelines
- Funding of WM opportunities through partners (CRS – Madagascar)
- Inclusion of WM into BHA Private Sector Engagement initiatives
- Coordination with other donors.

USAID/BHA Supply Chain WM initiatives

- WM mapping – Caribbean region
- Geographical proximity and limitation, disaster occurrence, footprint
  - What are the waste and recycling capabilities in the region?
  - Are there some materials that are more easily recycled?
  - What happens to materials that are recycled?
  - Are recycled materials used or become trash somewhere else?
  - What are transportation options to get recycling to the recycling facilities? What are limitations in the recycling supply chain?
Mapping Methods

- Interaction and knowledge sharing with WREC team
  - Questionnaire format
  - Standardization

- Desk research
  - Google maps searches
  - Google maps aerial imagery
  - Directories
  - Facebook & Instagram
  - News articles

- Emailed, called, and filled out the “contact us forms”

- Asked about their company and if they know of other companies to recommend
### Non Hazardous Recycling Companies

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<th>Non Hazardous Waste Access</th>
<th>Antigua and Barbuda</th>
<th>Bahamas</th>
<th>Barbados</th>
<th>British Virgin Islands</th>
<th>Cayman Islands</th>
<th>Costa Rica</th>
<th>Dominica</th>
<th>Dominican Republic</th>
<th>Grenada</th>
<th>Haiti</th>
<th>Jamaica</th>
<th>Peru</th>
<th>Saint Kitts and Nevis</th>
<th>Saint Lucia</th>
<th>Saint Vincent and the Grenadines</th>
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Grand Total: 207
General Patterns Observed

- When the local government starts a recycling initiative by creating a law, regulation or policy that requires recycling through financial incentives, many business start up to meet this demand.
- Other donors in the Caribbean region: Germany, Japan and Taiwan
- Most grassroots efforts are focused on
  - Plastic recycling, particularly bottles PET.
  - Scrap metal recycling, particularly metals with residual $ value
- The Organisation of Eastern Caribbean States (OECS) has identified two Member States – Dominica and Grenada – to stage Recycle OECS model demonstration projects (as of 2023).
Breakout group & results

Go to: menti.org
Wrap up: Next steps

- Waste Management Coordination groups
- Call for examples/case studies/good practices on Waste to Energy and Disposal.
- Note for the Record (NFR)
- Survey of today’s Information Session

1. Know your waste
2. Explore management options
3. Describe procedures
4. Training and awareness
5. Monitoring
Thank you!

For more information on the project or on the Waste Management, please contact: global.WREC@wfp.org