



AMP Emerging Issues Working Group (EIWG)

Day 3: Waste Management Session

Jessica Rockwood – IPHA
April 9, 2025



EIWG - ITN waste, care, repair and repurposing and end of life (EOL) nets management

Session overview:

- Plastic waste management across channels | Liberia & Sierra Leone examples and discussion
 - Moderator: Paul Ogozi
- Care, repair and repurposing guidance | Madagascar & Zambia experience
 - Moderator: Miko Thomas
- EOL nets and Nigeria EOLIN experience
(Fatima Ali | NMEP & Godwin Aidenagbon | BASF EOLIN Nigeria Director)
 - Reflections from Uganda NMCD Peer-to-Peer visit (Ogun State): Medard Rakaari
 - Moderator: Jessica Rockwood (EIWG co-chair)

Waste Management Updates

Reminder – Dated Waste Management and Procurement Guidance

Recommendations on the Sound Management of Packaging for Long Lasting Insecticidal Nets (LLINs) | **November 2011** | WHO/WHOPES Provided guidance on appropriate waste management (i.e., incineration, burying, etc.)

Guidelines for Procuring Public Health Pesticides | **2012** | LLINs should be packed individually in sealed plastic bags that are sufficiently strong to prevent damage during transit

Updates

ITN plastic packaging waste management operational guidance developed

- *Management of insecticide-treated net packaging: a review of current information and recommendations for priority action by target group*
 - Included input from WHO GMP and 2023 AMP Annual Meeting Waste Management Session

UNICEF taking the lead with UN Economic Commission for Europe (UNECE) requesting ITNs receive waivers for individual bags

- Request submitted April 4, 2025 | Answer expected June/July 2025
 - If **YES**, countries can request ITNs in bulk packaging
 - If **NO**, countries must procure ITNs in individual bags and **must be marked as hazardous goods** resulting in increased costs and longer lead times

Waste Management Example – Quantity of Plastic (pre-assessment)

Waste Type	Plastic Type	Quantity	Total Weight (Kg)
Individual Bags	Blend of PE (90%) & PP (10%)	3,193,479	60,676.10
Bales	PP (woven)	63,870	10,219.13
Straps	Recycled PET* (4 per bale)	63,870	4,470.87
		Total waste	75,366.10Kg

Note:										
To use this calculator, enter data into red boxes										
Number of nets distributed	3193479									
Corresponding number of bales	63869.58									
Component	Component weight per bale (kg)	Average weight per unit (kg)								
Individual net (PET or PE)	Distribution waste not relevant to new nets	0.5								
IG2 Primary Packaging (90%PE, 10%PP)	1.125	0.0225								
Bale strap (PET)	0.04	0.02								
Bale sack	0.175	0.175								
Q: How much campaign waste is generated, and what are corresponding emissions data?										Assumptions:
Component	Number of nets distributed	Weight of campaign waste generated (MT)	CO2 emissions expected from incineration (MT)	CO2 emissions from mechanical recycling (MT)	Emission savings (MT CO2)	%CO2 savings				
IG2 Primary Packaging (90%PE, 10%PP)	3,193,479	71.8532775	207.9936824	121.01529	86.97839241	41.82	• 2.8947 MT CO2 emitted/MT plastic incinerated.			
Bale strap (PET)		2.5547832	7.395330929	4.302765865	3.092565064	41.82	• 1.6842 MT CO2 emitted/MT plastic mechanically recycled.			
Bale sack (PP)		11.1771765	32.35457281	18.82460066	13.52997215	41.82				
TOTAL		85.5852372	247.7435861	144.1426565	103.6009296	41.82				
Q: Quantity of EOLINs, and corresponding emissions data.										Assumptions:
Type	Number of EOLINs	Weight of EOLINs (MT)	CO2 emissions expected from incineration (MT)	CO2 emissions from mechanical recycling (MT)	Emission savings (MT CO2)	%CO2 savings				
EOLINs measured by counting	1500000	750	2171.025	1263.15	907.875	41.81780495	• 2.8947 MT CO2 emitted/MT plastic incinerated.			
EOLINs measured by weighing	0		0	0	0	#DIV/0!	• 1.6842 MT CO2 emitted/MT plastic mechanically recycled.			

Waste Management Information Needs

Menti will be embedded in each session – *get your phone ready*

In general, we need to know what are the priorities in your country.



Thanks for engaging!