ZERO WASTE TO LANDFILL (ZWL)  
A NEED OF TIME

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Waste & Recycling Summit  
Dubai, UAE – 19 Sep 2019
AGENDA

01 Understanding Zero Waste to Landfill (ZWL)
02 ZWL Certification Program
03 Benefits of ZWL Certification
04 The Certification Process
05 Conclusion
INTRODUCTION AND CONTEXT

ZERO WASTE TO LANDFILL (ZWL)
WHAT IS ZERO WASTE?

ZERO WASTE:

Zero Waste is a goal ... to influence organizations changing their practices
WHAT IS ZERO WASTE?

ZERO WASTE:

• Zero Waste means designing and managing products and processes to systematically avoid and eliminate the volume and toxicity of waste and materials, conserve and recover all resources, and not burn or bury them.
WHAT IS ZERO WASTE?

ZERO WASTE:

*Zero Waste is diverting all wastes from landfill disposal*
WHY ZERO WASTE TO LANDFILL?

Like other Green Claim Verifications, Zero Waste to Landfill certifications provide enhanced credibility and visibility to an organization’s efforts to improve its environmental impacts.
WHY ZERO WASTE TO LANDFILL?

Responsible and clean manufacturing have become expectations of customers and interested parties within industry. Sustainability efforts such as waste diversion from landfills are important steps to demonstrate environmental stewardship.
WHAT IS LANDFILL DIVERSION?

Process improvements and methods of handling wastes and byproducts that will result in an ecologically-friendly means of handling instead of placing in a landfill or equivalent disposal method.

These include:

• Design and manufacturing improvements
• Recycling
• Re-Use
• Approved Waste-to-Energy conversions
| HIERARCHY OF WASTE MANAGEMENT  
| ZWL APPROACH |

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INTERTEK’S ZWL CERTIFICATION PROGRAM
INTERTEK SOLUTIONS

As a recognized leader in 3rd Party auditing solutions and sustainability services provider, Intertek can seamlessly provide green claim verifications bundled with management system certification services (e.g. ISO 9001, ISO 14001, etc)
Intertek is pleased to provide Zero Waste to Landfill Certifications.

Solutions offered include:

- **Zero Waste to Landfill** - For diversion rates of at least 99%
- **Near Zero Waste to Landfill** - For diversion rates between 95% and 99%
- **Advanced Waste Diversion** - For diversion rates between 85% and 95%
INTERTEK SOLUTIONS

Product labelling Services:

- Products manufactured at certified facilities may label products in accordance with Intertek requirements.
- The ZWL certificate appendix will list the products approved for labelling.
• ZWL certificates and included products will be listed on Intertek’s Sustainability website.
• The certificates will be able to be downloaded from the directory.
• This will provide additional visibility to the certified products and organizations.
WHO CAN IMPLEMENT ZWL CERTIFICATION?

• Any manufacturing organization using processes that generate waste (hazardous and non-hazardous) and wish to demonstrating sustainable manufacturing practices resulting in diversion of wastes from landfills.

• Office or service companies (non-manufacturing), distribution centres, warehouses, laboratories, any facilities or operations committed to reduced environmental impact.

• Large global brands throughout their own global operations/sites, but also in their supply chain as requirement of supplier or subcontractor performance to demonstrate commitments to sustainability goals.
BENEFITS OF ZERO WASTE TO LANDFILL CERTIFICATION
Zero Waste to Landfill 3rd party verification service lends credibility to green claims, providing assurance to customers, communities, and other interested parties to an organization’s efforts to improve its environmental impacts, by eliminating and/or minimizing waste being placed into landfills.

Helps strengthen brand reputation for environmental stewardship, support sustainability efforts and claims such as waste diversion from landfills, responsible and clean manufacturing have become expectations to customers.

Implementing a Zero Waste to Landfill program will result in not only efficiency in manufacturing processes but can also save physical and financial resources through energy conservation and reuse of raw materials.
BUSINESS BENEFITS OF IMPLEMENTING ZERO WASTE APPROACH

- Zero Waste - Diverting all wastes from landfill disposal
- Improved Resource Economy and Efficiency
- Synergy with Continual Improvement Initiatives
- Improved Financial Performance
- Saves costs and reduces environmental impacts
- Greenhouse gas and carbon footprint reduction, energy efficiency, or other environmental goals
- Stronger Brand Identity
- Reduced Legal Exposure
THE CERTIFICATION PROCESS
The organization provides requested waste generation and landfill diversion data to Intertek for preliminary review and audit planning.

**Execute Agreement**

The organization provides requested waste generation and landfill diversion data to Intertek for preliminary review and audit planning.

**Intertek provides client with a project proposal**

Review objective evidence: records reviews, records from waste recyclers and other vendors, as well as landfills, observations, and interviews to verify effective waste management arrangements and the diversion rate.

**Intertek arranges a planning session with client**

Opportunities to improve waste management practices provided. Once all findings are closed, Intertek audit team will recommend the appropriate verification statement. After independent review, Intertek will issue the ZWL certificate valid for a 3-year period.

**On-site audit for landfill diversion rate verification**

**Intertek grants certification**
WHAT SHOULD I DO NOW?

• Obtain Top Management commitment for Zero Waste, and establish a policy
• Prepare a waste and byproduct inventory
• Ensure arrangements with vendors in place to prohibit landfilling of wastes
• Consult with waste brokers to determine recycling and re-use possibilities
• Implement zero waste strategies. If applicable, leverage within any management systems certification activity (ISO 14001 etc.)
• Conduct internal training as needed.
• Prepare a waste information system and calculate landfill diversion rate.
• Communicate with Intertek for a ZWL pre-audit and certification audit.
The landfill diversion data must be **verifiable, materially correct** and **demonstrate** the level of diversion claimed;

- Assurance from vendors that byproducts and wastes are not being placed into landfills is required
- The organization must develop and implement a **policy** committing the organization to the waste diversion claim (e.g., Zero Waste Policy);
- The organization must effectively implement **waste management processes** and procedures;
- **Training programs** must be implemented as appropriate to ensure competency of persons whose work may affect the performance toward the zero waste goal.
- A waste management information system must be developed in order to demonstrate quantification of wastes, tracking systems, appropriate manifesting, shipping records, and other waste handling and disposal information.
- Utilization of management systems such as operational controls, monitoring, and corrective actions to ensure the waste management processes are effectively implemented (within ISO 14001 or ISO 9001 management systems, if implemented).
Solid waste management affects every person in the world.

By 2050, the world is expected to increase waste generation by 70 percent, from 2.01 billion tonnes of waste in 2016 to 3.40 billion tonnes of waste annually.
Individuals, organizations and governments make decisions about consumption and waste management that affect the daily health, productivity, and cleanliness of communities.
CONCLUSION

Poorly managed waste is contaminating the world's oceans, clogging drains and causing floods, transmitting diseases, increasing respiratory problems, harming animals that consume waste unknowingly, and affecting economic development.
In current situation of environmental emergency, adopting green management systems like **Zero Waste to Landfill** is a key to success and sustainability.

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Organizations can confidently count on **Intertek** as their strategic partner in this journey to excellence.
“IF WE DID ALL THE THINGS WE ARE CAPABLE OF WE WOULD LITERALLY ASTOUND OURSELVES.”

Thomas Edison – Founder Intertek
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