Upstream

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*with guests*

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The Earthwards® approach

Using Earthwards® as our guide, we’re being thoughtful and innovative in our approach to material selection, packaging, energy and water use, waste reduction, and even social impacts.

Our product teams are also encouraged to collaborate with sustainability experts to improve products in ways that matter most. Products that have achieved at least three significant improvements are eligible for Earthwards® recognition, an honor celebrating our most innovative and broadly improved products. Today, more than 70 Johnson & Johnson products — representing more than $8 billion in revenue — have achieved Earthwards® recognition.

Learn more at www.earthwards.com For employees: earthwards.jnj.com
Innovation for a healthy future

Our customers and consumers expect us to incorporate sustainability in everything we do. To meet this growing demand, Johnson & Johnson developed the Earthwards® approach to address our products’ impacts throughout their lifecycles.
Earth Friendly Labware Solutions
Innovative, Sustainable Design and Manufacturing
Labware: Carbon Footprint

Typical Cradle to Gate Life Cycle Analysis of Labware

- 5% Transp.
- 15% Manuf.
- 80% Materials

Use & Disposal

[Image of labware with life cycle analysis diagram]
Materials: Replace, Recycle & Reuse

Stryofoam/EPS

1 case 500 tubes
= 1 cu-ft of EPS

Recyclable Paperboard

Reusable/Recyclable

Sustainability Goals:

• Reduce and Replace
• Reuse and Refill
• Recyclable and Recycled
• Renewable
Materials: Reduce, Reuse/Refill & Recycle

- **10 Tip Racks**
- **25% UP**
- **1 Refill**
- **63% UP**
  - **15% UP**
  - **35% UP**
- **Tip Rack Recycling**
- **80-95% Less Waste & saves 1 kg plastic**
- **35-40% UP**
  - **Others: 3X Packaging**
Materials: Recycled & Recyclable

Recycle codes on all parts

PP labels on PP parts

Materials: Recycled & Recyclable
Materials: Renewable & Recyclable

1 kg of green HDPE sequesters 2.5 kg of CO2
Manufacturing: Reduce Wasted Resources

- **86%** Waste/Scrap (kg/case)
- **83%** Water (L/case)
- **52%** Energy (kWh/case)
- **54%** Renewable Energy (30% onsite)
- **79%** GHG Mfg (kg/case)
Resources for Sustainable Labs

- MyGreenLab.org for FREE green lab assessment & certification.
- Labconscious.com blog for sustainable ideas and articles.
- Waste, Biohazard/Pharma: Stericycle.com
- Solvent Recycling : cbgtech.com OR nextgenenviro.com
- Repurpose: Seedinglabs.org donate old equipment
- Labcon Sustainability, Mark Gmelin: mgmelin@labcon.com