**Plastipak's Bottle to Bottle Recycling Approach**

**Recycling Worth Repeating™**

**Used Bottles**
Used plastic bottles are collected by Clean Tech to start the recycling process.

**Recycling Solutions**
Clean Tech uses advanced technologies to recycle billions of used plastic bottles.

**PCR Resin Making**
Recycling results in post-consumer recycled resin which will be used to make new bottles.

**Packaging Development**
Unique bottle designs using post-consumer recycled resin are developed and tested.

**New Bottle Manufacturing**
New bottles are manufactured using sustainable technologies.

**Product Filling and Distribution**
The new bottles are filled and sent to the marketplace.

**Product Consumption**
Consumers around the world enjoy their favorite products in convenient plastic packaging.

**Recycling Counts™**
Used bottles which are placed in recycling bins by consumers are collected for recycling.

**Who We Are**

**Plastipak**
Packaging Innovation and Recycling Solutions

**Clean Tech**
A Plastipak Company

**Recycling PET and HDPE Plastics at Our Global Recycling Centers**
- Dundee, Michigan
- Hemswell, UK
- Bascharage, Luxembourg
- Beaune, France

**Innovations in Sustainable Technologies**

- Aerosol Technology
  Lightweight PET aerosol containers have a low carbon footprint for use in a wide range of applications.

- DiomndClean™
  DiamondClean™ redlines barrier technology with exceptional clarity while extending shelf life.

- Direct Object Printing
  This sustainable printing option uses environmentally-friendly ink and eliminates label substrates.

- HDPE Technologies
  Durability meets recyclability in HDPE plastic packaging with size flexibility for high volume output.

- EPET
  EPET uses existing extrusion molding technology to create clear, recyclable PET packages.

- Lightweight Neck Finishes
  Lightweight necks reduce overall material consumption for multiple applications.

- Pet Technologies
  Plastipak maximizes the reusable characteristics of PET plastic with lightweight, recyclable packaging.

- Post-Consumer Recycled Resin
  Plastipak's resin making capabilities provide customers with environmentally-friendly packaging options.

- THERMALITE™
  Thermalite™ jars offer transport savings with an 85% weight reduction compared to glass alternatives.

- ThermoShape™
  ThermoShape™ technology offers decreased container weight with low energy, air and cooling costs.

- Virgin Resin Making
  Plastipak's manufacture of 100% virgin PET resin streamlines the production process and supply chain.

**Sustainability at a Glance**

- Recycling PET and HDPE at Clean Tech Since 1989
- Our global recycling centers process more than 600 million pounds of plastic containers annually.
- Clean Tech, Plastipak’s recycling company, is one of the top 5 U.S. plastic recyclers.
- Plastipak’s global sustainability efforts keep billions of bottles out of landfills every year.
- In Europe, Plastipak is the largest producer of food-grade rPET (PET PCR or rPET).
- We have the capacity to produce 300+ million pounds of post-consumer recycled food-grade PET resin.
- In Europe, Plastipak is the largest producer of food-grade rPET (PET PCR or rPET).
- Our Victoria, California site earned LEED Gold Certification for its high-performance green building.
- As an APR Recycling Demand Champion, we commit to using recycled plastics in the workplace.
- As an APPI Recycling Demand Champion, we commit to using recycled plastics in the workplace.
- Clean Tech, Plastipak’s recycling company, is one of the top 5 U.S. plastic recyclers.

**Recycling Partnerships & Associations**

- www.plastipak.com/sustainability
- www.plasticsrecycling.org
- www.recyclingcounts.com
- www.petcore-europe.org
- www.wipeoutwaste.com

**Sustainability Awards**

- Best Business Initiative of the Year at the Plastics Industry Awards 2019
- Best Environmental or Energy Efficiency Initiative of the Year at the Plastics Industry Awards 2019
- Recycling Facility of the Year at Materials Recycling World's National Recycling Awards for Clean Tech's Hemswell, UK Site 2017
- Sustainability Merit of Honor for Plastipak Brazil from Jussara 2015
- Bronze Greenstar Sustainable Award for ThermaLite™ from Starpack 2015
- Best of Show Award in the PAC Gold Sustainable Category for Plastipak's Simply Orange Bottle 2014
- Honorable Mention as a Detroit Free Press Michigan Green Leader 2014
- DuPont Gold Award for Technological Advancement and Responsible Packaging for Direct Object Printing 1992
- DuPont's Environmental Award for the first food container with 25% post-consumer recycled PET resin (PET PCR or (PET) for Kraft salad dressing 1989
- DuPont Environmental Award for the first PET container made of 100% post-consumer recycled PET resin (PET PCR or (PET) 1989