

The Lexmark product Lifecycle supports the circular economy



- Design**
- Materials selection
 - Long-life components
 - Energy-efficient designs



- Use**
- Automatic duplex
 - Energy-saving modes
 - High-yield cartridges
 - Proactive printer maintenance



- Manufacturing**
- Common components
 - Recycled content, including closed loop PCR



- End of Life**
- Easy-to-use collection programs for reuse and recycling
 - In-house remanufacture and recycling
 - Materials for next generation products



- Distribution**
- Compact design
 - Efficient packaging designs
 - Regional manufacturing

LCA- Environmental Product Declaration

A **Life cycle assessment** is a standardized tool that evaluates the environmental impact of products throughout the entire life cycle. It analyzes and quantifies the direct and indirect environmental burdens associated with the product, or a material, a process, or a system.

Environmental Product Declaration (EPD)

- The Product Category Rules (PCR) for Printers and Multi-Function Printing Units provide the technical requirements and guidance for an Environmental Product Declaration (EPD).
- The EPD takes the LCA-derived information to assess the environmental performance of the products over the life cycle, from cradle to grave. Using the guidance from the PCR, the EPD standardizes how you communicate the LCA results.
- Lexmark uses software called GaBi to perform the life cycle assessment, and then to generate the EPD.
- Once the EPD is complete, it is reviewed and certified by a 3rd party for completeness and accuracy.

What is the difference in **Environmental Product Declaration (EPD)** vs. **Product Environmental Footprint (PEF)**

Lexmark's EPD's report on 6 environmental impact categories: Global Warming Potential, Ozone Depletion Potential, Acidification Potential, Eutrophication Potential, Fossil Fuel Depletion Potential, and Mineral Resource Depletion Potential

Product Environmental Footprint (PEF) method - is comparable to the EPD method, but primarily used in Europe. The PEF can report on up to 16 environmental impact categories.

Because EPEAT is primarily used throughout North America, Lexmark selected the EPD methodology. However, EPEAT is becoming more prevalent in other geographies. Lexmark can obtain up to 2 EPEAT points using the EPD methodology.

