



NOZOMI
SINGLE-PASS LED
TECHNOLOGY

Life Cycle Assessment (LCA)

EFI Nozomi Printing LCA Tool: Elevate Your Sustainability

In 2023, EFI™ commissioned Clean Agency to conduct a Life Cycle Assessment (LCA) for Nozomi digital print technology.

The LCA found that EFI Nozomi digital printing reduces Global Warming Potential (GWP) by 50% compared to analog printing, emitting just 8.7 KGs of CO₂e per 100 m². Compared to analog technology, Nozomi digital printers offer:

- 50% GWP reduction because of no printing plates, inks and press operation
- 30% reduced energy consumption
- 40% reduced water consumption

The LCA findings were independently verified by a third party in 2024.

DATA SOURCES: For comparative analysis, industry averages were pulled from global data sources including Ecoinvent 3.9, USLCI, US-EI databases, and published research from Dupont, Corrugated Packaging Alliance, and Rochester Institute of Technology. EFI provided data from a year of EFI's global ink production, transportation, consumption, and press operations.

The LCA can help you:



Track & Reduce Scope 3 Emissions

Gain a clear view of indirect emissions of specific jobs, cutting through the complexity of a company's value chain.



Slash Your Carbon Footprint

Instantly calculate and compare CO₂e emissions across different printing technologies. An EFI Nozomi digital press reduces GWP by approximately 50% when compared to analog technologies.



Maximize Efficiency & Savings

Leverage digital printing's eco-advantages—less waste, lower energy use, and reduced costs—to enhance both sustainability and productivity.

THE LCA TOOL

An LCA tool was developed to enable EFI customers and their clients to use the findings of the LCA to calculate the exact impact of Nozomi technology on their specific jobs. This helps them better understand the implications and advantages that digital printing offers for their businesses.

Unlock powerful insights with EFI's LCA tool, which provides a detailed analysis of:

- **Materials:** Inks, coatings, maintenance items
- **Transport:** Finished products to press locations
- **Manufacturing:** Press operations