




Compare the other green alternatives

Printing Process	Energy Consumption	Resources Required	Waste Generated	Environmental	Overall
Inkjet www.mergeprintmail.com.au		Oil Based Inks Paper	Paper Empty Ink Cartridges Waste Ink	Minimal energy requirements and resources. Less waste generated and longer machine lifecycle.	Inkjet is the most environmentally friendly printing method on the planet.
Laser		Toners Paper Developer Units Replacement Fuser Units Replacement Parts Fuser Oils Environmental Conditioning	Paper Empty Toner Cartridges Waste Toner e-Waste from replaceable parts such as fuser, drum and developer units. Empty Fuser Oil Bottles	Consumes a large amount of energy. Requires installation of environmental conditioners, such as air conditioners. Generates a large amount of e-Waste in replaceable parts. Resin based Toners are harder to strip out from paper during the recycling process. Frequent technician visits to service machines are required.	Laser's high energy consumption and the requirement for heat affected replacement parts plus low product lifecycle impose greater pressure on our environment and it's resources. The machines high servicing requirements also add additional greenhouse gases as technicians travel between printers/parts centres with replaceable parts.
Offset	 +++++	Solvent or Vegetable Inks Paper CTP Developers, Chemicals & Plates <small>(most are manufactured from aluminum, one of the most destructive and energy intensive manufacturing processes on the planet),</small> Cleaning Solvents Cleaning Equipment Personal Protective Equipment Water Water Cooling Silica powder Lubricants	Paper - loads of it for run ups Empty Ink, Solvent, Silica, Lubricant and CTP Chemical Containers Used or Unused Inks Used Solvents Used Chemicals Used CTP Plates Used Cleaning Equipment Used Personal Protective Equipment Silica Dust Contaminated Water	Generates the most chemical wastes, by-products, most of which are difficult or require a lot of energy to recycle or make safe. Adds the most greenhouse gases and VOC's (Volatile Organic Compounds) to the environment. Creates the most dangerous waste of all printing processes. Places the largest demands on the environment, resources, electricity grid, landfill and recycling facilities.	Offset printing demands the most energy, resources and recycling needs than any other printing process. It also creates additional paper waste through it's motto of printing more for lower cost. Print jobs become out of date and end up in landfill. It generates the most greenhouse gases and VOC's. The German printing industry emits approximately 100,000 tons of VOC per year.