

# CASE STUDY

Design for Environment (DfE)

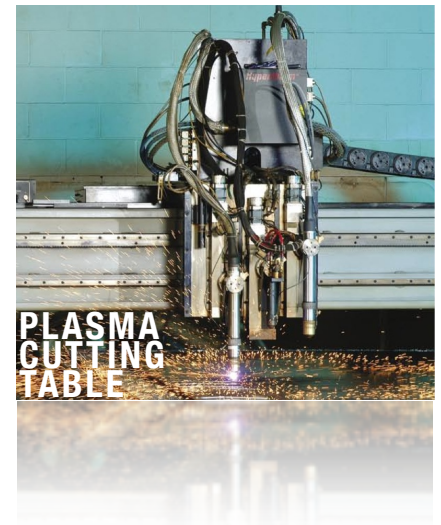
**VERIFORM:** Product Design for Environment identified feasible measures to reduce energy consumption by 90% (to 1/5th the consumption of a competing product analyzed).

## INTRODUCTION

VeriForm, located in Cambridge, Ontario, has developed a plasma cutting table (pictured at right) that results in less exposure of harmful chemicals to employees and uses substantially less energy than competing products on the market.

## DfE APPROACH

Enviro-Stewards collected data necessary to document the environmental, financial, and health & safety advantages of Veriform's plasma cutting table's dust collector and compressed air requirements relative to a competitor's product. They also completed an assessment to demonstrate the feasibility of upgrading the dust collector to treat and recycle air (and associated heat) presently exhausted from the table.



**DfE is a general concept that refers to a variety of design approaches that attempt to reduce the overall environmental impact of a product, process, or service, where environmental impacts are considered across its life cycle (Wikipedia.com).**

## SUSTAINABILITY APPROACH

VeriForm's plasma cutting table technology satisfies the three legs of sustainability: economic (reduced energy costs), environmental (minimized energy consumption results in fewer greenhouse gas emissions), and social (reduced employee exposure to harmful chemicals). To bolster Veriform's overall sustainability performance, the company elected to offset all of the potable water consumed at their facility by purchasing 10 Sustainability Credits (which will provide an equivalent volume of clean drinking water to South Sudan).

**Enviro-Stewards Inc.**  
is Pleased to Present the Following  
**Sustainability Credit**  
to **Veriform Inc.** for Providing 200 m<sup>3</sup> per Year of Clean Drinking Water to South Sudan, which offsets 100% of their annual potable water consumption in Cambridge, Ontario.

Certified by Bruce Taylor, President, Enviro-Stewards Inc.

Date of Issue: \_\_\_\_\_

**Background:** Clean water is critical to the health and well-being of all people. In many parts of the world, clean water is scarce and often contaminated. In Kajo Kebo County, South Sudan, more than 80% of the water sources used are contaminated with bacteria and other harmful pathogens. This lack of clean water is a major barrier to economic and social development.

**Sustainability Credit:** Veriform Inc. is purchasing enough Sustainable Energy Credits to provide clean drinking water to South Sudan to offset 100% of their annual potable water consumption. This credit will be used to fund a water treatment project in Kajo Kebo County, South Sudan, to provide clean drinking water.

**Benefits of Sustainable Energy Credits:**

- Save \$100 per year on 100 L of clean drinking water per day
- Prevents deforestation & the discharge of greenhouse gases (CO<sub>2</sub>) associated with burning fossil fuels for water
- Improves health & productivity in the community
- Provides local employment
- Provides infrastructure to support other income-generating projects (internet cafe, health post, mango dryer)

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