

Van Gansewinkel Groep

ESTIMATED CUMULATIVE RESULTS (2011-2013)

Van Gansewinkel Groep (VGG) is the largest waste management and processing company in the Benelux, engaging in the collection and processing waste into high quality raw materials. The company serves a diverse range of industries and specializes in recycling waste such as electronics, wood, plastics, glass, paper, hazardous waste and construction and demolition materials. The company has significant operations throughout Europe.

On June 17, 2013, Van Gansewinkel announced the sale of AVR – Energy from Waste – and the process of selling AVR was finalized on August 28, 2013. Therefore, the company's results as part of the Green Portfolio Program no longer include this part of the business.

\$162,900

IN AVOIDED FUEL COSTS

410

METRIC TONS OF GHG EMISSIONS AVOIDED

Key Environmental Performance Area: GREENHOUSE GAS EMISSIONS (FLEET)

RESULTS

In 2010, Van Gansewinkel Groep began actively measuring the fuel efficiency of its waste collection truck fleet as part of the Green Portfolio Program. The scope of this data includes the waste collection business with movable bins, which makes up almost half of the collection fleet. In absolute terms, in 2013 GHG emissions from the collection fleet increased by approximately 10% compared to a 2010 baseline. Over the same time period, efficiency improved by approximately 3% (GHGs/assignment). The improvement in efficiency has helped Van Gansewinkel avoid more than \$198,000, or \$162,900, and approximately 410 metric tons of GHG emissions since 2010. The less efficient performance data prior to 2013, e.g. 2011, is due in part to changes in the Dutch and Belgium markets and a decline in the demand for waste collection, resulting in sub-optimal routings.

VGG: Fleet GHG Efficiency (2010 Baseline)

Estimated Results	2011	2012	2013	Total
Avoided GHGs (metric tons)	-370	190	590	410
Avoided costs	-\$115,600	\$70,900	\$207,600	\$162,900
Change in productivity (GHGs/assignment)	2%	-3%	-2%	-3%
Change in absolute GHGs	4%	11%	-4%	10%

Notes:

- See [methodology section](#) for description of avoided and efficiency calculations.
- The total % change is aggregate change between the baseline year and the most recent year of data. All other % changes are expressed as year-over-year.
- Reported numbers are rounded and may not produce the same results when used to analyze percent changes or total impact.

ACTIONS

In 2013, VGG implemented a number of fleet projects, including:

- Fully implemented the "Freight Platform," an IT-system to optimize transport from the company sites to various (end) processors. This effort is expected to lead to a reduction in kilometers driven with an empty load as well as a reduction in back office administration
- Further increased the use of fully electric driven compactor trucks in urban environments, leading to a decrease in fossil fuel use. Additional new EURO 6 trucks will contribute in the reduction of fossil fuel

FUTURE PLANS

In order to improve its efficiency performance, through 2014 and for 2015, VGG is continuing to focus on improving the efficiency of its fleet through the following activities:

- Introducing the E-Co drive module in 600 trucks in 2014. This tool will assist the driver to optimize driving behavior and driver satisfaction. The system tracks actual information on five parameters and generates a monthly report for discussion

Van Gansewinkel Groep enrolled in the Green Portfolio Program in 2010 and is reporting results for the third time. Please visit Van Gansewinkel Groep's website for further details on its activities.

Note: Reported numbers are rounded and may not produce the same results when used to analyze percent changes or total impact.