

WILD Flavors

ESTIMATED CUMULATIVE RESULTS (2009-2013)

WILD Flavors is a leading private producer of natural flavors, ingredients, and systems to the food and beverage industry. The information and data below relate to WILD Flavors' European production footprint.

\$5.3M

IN AVOIDED COSTS

19,500

METRIC TONS OF GHG EMISSIONS AVOIDED

36%

WASTE EFFICIENCY IMPROVEMENT

8,273

TONS OF WASTE AVOIDED

Key Environmental Performance Area: GREENHOUSE GAS EMISSIONS (FACILITIES)

RESULTS

In 2013, as part of the Green Portfolio Program, WILD continued measuring energy consumption. In absolute terms, GHG emissions from these sources have decreased an estimated 7% compared to a 2009 baseline. Over the same time period, efficiency has improved by an estimated 12% (GHGs/ton of product). The improvement in efficiency helped WILD to avoid more than €4.0 million, or approximately \$5.1 million, in costs and roughly 19,500 metric tons of GHG emissions since 2009.¹

WILD Flavors: Manufacturing Plants Efficiency (2009 Baseline)

Estimated Results	2010	2011	2012	2013	Total
Avoided GHGs (metric tons)	800	4,900	10,300	3,500	19,500
Avoided costs	\$157,000	\$685,000	\$2,586,000	\$1,666,000	\$5,100,000
Change in productivity (GHGs/ton of product)	-3%	-13%	-17%	25%	-12%
Change in absolute GHGs	0%	2%	-11%	2%	-7%

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, WILD achieved these results by implementing the following initiatives:

- Upgraded existing bio gas generation unit
- Installed a high efficiency compressor
- Increased use of renewable energy (wood) and natural gas

FUTURE PLANS

Through 2014 and for 2015, WILD Flavors is continuing its focus on energy efficiency and is implementing or considering additional improvements, such as:

- Installing an additional power-heat cogeneration unit
- Increasing the roll out of future energy concept
- Completing an internal benchmarking across facilities and roll out of best practices

Key Environmental Performance Area: **WASTE REDUCTION AND RECYCLING (FACILITIES)**

RESULTS

In 2013, as part of the Green Portfolio Program, WILD continued its focus on reducing and recycling waste. Since 2009, WILD's waste production has decreased by 32% in absolute terms and waste efficiency has improved by approximately 36% (kg of waste/ton of product). In addition, since 2009, WILD has reduced the hazardous waste produced in absolute terms by approximately 21% and has improved its hazardous waste efficiency by more than 26% (kg of hazardous waste/ton of product). Since 2009, these improvements have helped WILD to avoid an estimated €159,000, or approximately \$203,000, in costs, more than 8,273 tons of waste, and approximately 106 tons of hazardous waste.

WILD: Manufacturing Waste Reduction (2009 Baseline)

Estimated Results	2010	2011	2012	2013	Total
Solid waste avoided (tons)	647	1,741	3,485	2,399	8,273
Hazardous waste avoided (tons)	37	22	25	21	106
Avoided costs	\$64,000	\$40,000	\$41,000	\$59,000	\$203,000
Change in productivity (kg of waste/ton of product)	-10%	-15%	-26%	12%	-36%
Change in absolute waste produced	-7%	0%	-20%	-8%	-32%
Change in productivity (hazardous) (kg of waste/ton of product)	-48%	44%	-1%	-1%	-26%
Change in absolute waste produced (hazardous)	-46%	68%	7%	-19%	-21%

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, WILD achieved these results through the following initiatives:

- Increased sorting and recycling of single waste streams
- Reduced product losses by improving process capability
- Increased use of bulk transport to reduce packaging

FUTURE PLANS

Through 2014 and for 2015, WILD Flavors is continuing to focus on reducing waste and is implementing or considering new programs, including:

- Upgrading shredder for improved waste reduction
- Further avoidance of raw material packaging waste by increased use of bulk product

Key Environmental Performance Area: WATER USE REDUCTION (FACILITIES)

RESULTS

In 2013, as part of the Green Portfolio Program, WILD continued focusing on reducing (fresh) water consumption in its manufacturing facilities. Since 2009, WILD has increased water consumption in absolute terms by approximately 29%. This is partially attributed to the increase in product batches that results in additional cleaning cycles, where the majority of water is consumed during operations. Over the same time period, WILD's water efficiency has declined by approximately 21% (liters of water/ton of product), primarily driven by the increase in absolute water use and a decrease in production in 2013. Against the baseline year of 2009, WILD avoided approximately 2,000 liters of water.²

WILD Flavors: Water Efficiency (2009 Baseline)

Estimated Results	2010	2011	2012	2013	Total
Avoided water (liters)	29,000	54,000	77,000	-159,000	2,000
Change in productivity (liters/product volume)	-4%	-2%	-2%	32%	21%
Change in absolute water	-1%	14%	6%	8%	29%

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, planned water reduction measures regarding the cleaning processes were performed, but WILD determined that the company had reached a limit where portfolio changes and batch switch over would lead to a higher water demand in 2013.

FUTURE PLANS

Through 2014 and for 2015, WILD is continuing to focus on the reduction of fresh water use and as such is implementing or actively considering the following:

- Review of planning cycles and related cleaning requirements

WILD Flavors enrolled in the Green Portfolio Program in 2010 and is reporting results for the fourth time. For more on WILD's efforts, see the company website.

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



1 In 2013, WILD Flavors closed one plant and transferred production to a newly acquired facility, which was ramping up production in 2013. As a result, the volume count for low-energy consuming products appeared reduced in 2013 and accounts for some of the apparent decline in efficiency.

2 A significant portion of water consumed in WILD operations comes from in-facility wells, for which WILD does not accrue a cost on a per unit basis. Therefore, KKR and WILD are not reporting financial impacts of water consumption reduction.