



Encouraging Environmental Excellence – Silver Level Award

Frito Lay, Inc. - Wooster

In 2013, Frito Lay, Inc. - Wooster received an Ohio EPA Encouraging Environmental Excellence Silver Level Award. The silver level recognizes businesses and others that have a good environmental compliance record and have completed environmental stewardship activities. Any business or other type of organization in Ohio may be nominated. The silver level is open to any business, industry, trade association, professional organization or local government of Ohio.

Frito Lay, Inc. - Wooster (Frito Lay) facility has been in operation for 64 years as the maker of salty snack foods. It currently manufactures core Frito Lay products which include: Lay's Potato Chips, Ruffles Potato Chips, Doritos, Frito Corn Chips and Tostitos. The facility is in operation 24 hours/7 days per week. Frito Lay currently employs approximately 350.



Commitment to Environmental Stewardship

Frito Lay formed an internal Green Team which consists of technicians and management working together to drive compliance and environmental stewardship at work and in the community. The Green Team is led by an environmental coordinator, with job functions related to compliance and training for the entire site and other Green Team members.

Resource Conservation is a main focus of Frito Lay's day-to-day operations. Innovative ideas have achieved significant savings of electricity, water and natural gas. Several projects have been implemented to reduce Frito Lay's overall impact to the environment. Since 1999, Frito Lay has reduced electricity use by almost 6.6 percent Kwh, natural gas use by more than 24 percent Btu's and water use by more than 39 percent.

Frito Lay has an environmental management system (EMS), and the company conducts regular reviews of all activities that may impact the environment. They analyze operations based on their potential harm to the environment, community concerns and other factors. Once a process is identified as a significant aspect, Frito Lay immediately sets objectives and targets toward reducing impact to the environment.

Water and Energy Conservation

Frito Lay has reduced water use through various projects. For example, they installed pressure regulators and recycled process water in certain production areas. These efforts resulted in reducing water use by more than 39 percent and saving \$342,720.

Frito Lay, Inc. - Wooster is recognized for:

- Forming an internal green team to drive environmental compliance and stewardship at work and in the community.
- Reducing electricity use by almost 6.6 percent, saving more than \$46,000.
- Reducing natural gas use by more than 24 percent, saving nearly \$468,000.
- Reducing water use by 39 percent, saving about \$343,000.

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Since 1999, while adding a full mix warehouse expansion to their operation, Frito Lay has reduced their electricity use by almost 6.6 percent and saved \$46,116. Some of the energy reduction projects included:

- installing heat recovery systems on process stacks;
- maintenance and upgrades to combustion sources;
- installing energy efficient lighting and energy efficient ovens;
- installing a quick charge system for forklift batteries,
- replacing forklift motors and gear boxes with high efficiency units; and
- installing new Energy Star qualified roofing material that has a high solar reflective value to reflect sunlight and heat away from the building and reduce roof temperature.

When Frito Lay upgrades their heating and cooling equipment, they reuse old heat exchanger tubes as hand and guard rails on-site, saving on the cost of raw materials and construction supplies.

Resource Conservation

Frito Lay has a zero landfill policy and has reduced solid waste disposal by 79 percent since 2005. Initiatives to achieve these reductions include: water reuse in processes where applicable and recycling many waste streams including scrap metal, paper, plastic, seasoning bags, cardboard, used oil, packaging film, wood pallets, parts wash solution, spent carbon, batteries, electronic waste, toner cartridges, lamps and by-products. Frito Lay installed a small baler for packaging film and seasoning bags that makes it easier to handle internally and increases the recycling market value of this waste.

They capture and dry the starch from their process water which generates starch revenue and reduces their wastewater surcharge. In 2011, starch revenue was \$323,258. Frito Lay also reuses cardboard boxes, up to eight trips, with local customers. This project saved them \$122,665 in 2011. Finished by-product is used as a local animal feed. By avoiding the landfill, the beneficial reuse as animal feed generated a revenue of \$193, 544 in 2011.

Within the last year, Frito Lay identified that composting potato dirt would be a better option than landfilling. Although this is a cost currently, composting helps them achieve their zero landfill goal for solid waste.

For More Information

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For more information about Ohio EPA's Encouraging Environmental Excellence program, contact the Office of Compliance Assistance and Pollution Prevention (OCAPP) at 800-329-7518, or visit epa.ohio.gov/ocapp/ohioe3.aspx.