

GLOBAL WARMING INITIATIVES: RESULTS AND TARGETS



2012

In 2012 we promoted energy conservation campaigns and environmental events organized by our employees.

Results:

- Elimination of all the old air conditioning systems with R22 gas
- New Thermal power plant: from Diesel to methane technology
- Disposal of oil underground tanks
- More than 20 different codes for waste recycling to maximize the number/type of recycled material and reduce the amount of generic wastes to < 25% on total amount
- Modal shift in our product shipments: CO2 emissions from transportation cut by 30%

2013

- Switch to energy efficient models when replacing equipment
- Continuous commitment to reduce our CO2 emissions (estimated cut by 2015: -20%) revising and optimizing equipment operations and all manufacturing processes.

2014

- Reduced the waste production: -14% vs 2013
- Reduced total waste production per number of working hours (from 0.59 to 0.53 Kg/w.h.9)
- Reduced total waste of wood (pallets) from 78 t to 13t
- Introduced the LCA analysis to all new products. In 2013 we have calculated the LCA specs for Laminar Flow, Aquatics and AHU products
- Reduced energy consumption (- 14% vs 2013) - ratio: kWh/1000 working hours
- Reduced transport and handling through the optimization of loading units and the new warehouse (- 14%).

2015

- Continued the waste separation campaign, reducing to <12% undifferentiated waste on total waste production
- Reduced plastic waste and scrap production to <5% optimizing purge at production startup and plastic material change
- Reduction of energy consumption: adopted new technologies as new light systems, installing photovoltaic cells and thermal solar panels
- Continued to make LCA calculations for new products
- Packaging material optimization replacing wood packaging with paperboard or lighter materials
- Reduced consumption of natural gas (-10%)
- Increased environmental and safety awareness among employees through improved training activity
- Continued and improved the recycling program for second life products
- Continued in a consistent way the Eco Design concept applications to new products' development, substituting traditional materials with lighter ones, reducing the number of components and identifying new technologies to reduce components.

2016

In order to make our environmental sustainability consistent, in 2016 Tecniplast:

- Continued the reduction of water waste adopting a recycling system for testing aquatics line
- Continued the waste separation campaign, maintaining < 12% of undifferentiated waste on total waste production
- Reduced plastic waste and scrap production to <3,5% optimizing purge at production startup and plastic material change
- Continued to make LCA calculations for new products
- Cut the consumption of natural gas (-5%)
- Improved training activity among employees and new employees to increase environmental and safety awareness
- Continued and improved the recycling program for second life products
- Continued in a consistent way the Eco Design concept applications to new products' development
- Eliminated Asbestos from the roof in the rack assembly line area.

2017

- Reduced of total waste production (-24% vs 2016), thanks to the maximization of the waste recycling activity
- Reduced of plastic waste thanks to the improvement of moulding injection machines set up processes
- Reduced of undifferentiated waste (from 32% to 10% of total waste)
- Reduced of methane consumption (-14%)
- Stable Electric Energy consumption (despite a higher production than in 2016)
- Reduced of water consumption (-14% vs 2016)

2018

- Continued the reduction (-18%) waste productions vs 2017 (-56% waste production vs 2015); mainly through a better efficiency in management plastic and packaging materials
- Reduced of undifferentiated Waste which represents only 9% of total waste
- Consumed less Electricity (- 6%) with a constant if not increasing production
- Continued analysis of the CO₂ Footprint on new products and on existing products with the objective to offer continuous reduction of CO₂ footprint of our products

2019

2019 Environmental Policy Related objectives:

- % undifferentiated waste: keep the result achieved (<9%)
- Continue to calculate the Product lifecycle assessment analysis for new products
- Continue with the installation of the analytical detection system of energy consumption.
- Evaluate the possibility of installing a system (air blade or similar) to reduce heat loss due to the transfer of materials between manual and automatic storage;
- Evaluate investment for the purchase of the cardboard converting machine in filling material considering the potential use and the saving deriving from the purchase of the current filling materials.
- In parallel, evaluate, where possible, use of collapsible plastic packaging to replace cardboard.

Tecniplast has set also for 2019-2020 a range of objectives to provide further developments in environmental performance in line with the Continuous Improvement of ISO 14001 Standard requirements and Tecniplast's President Sustainability Commitment.