

Environmental sustainability: AbbVie's commitment 2021 Highlights



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AbbVie Srl
Campoverde Site Aprilia (LT)





AbbVie and our commitment to sustainable growth

In AbbVie, **environmental preservation** and **safety** of all employees is part of the company's strategy to make a remarkable impact on **patients' lives**. Our particular attention to environmental protection, energy conservation, health and safety of all those who work in our Campoverde manufacturing Plant and of those who live in the surrounding area - is rewarded by the outstanding results achieved, as reported in the Environmental Declaration.

In 2021 (versus baseline 2005), the **Campoverde Site** has achieved excellent results in **reducing the environmental footprint** in operations by water and energy usage optimization, Volatile Organic Compounds containment and waste recycling and reduction.

SUSTAINABILITY:

ABBVIE GOALS WORLDWIDE



Reduce total CO₂ Emission **25%**

(scope 1 & scope 2 market based)



Increase percentage of **Electricity** purchased from Renewable Sources to **50%**

(excluded leased commercial offices)



Reduce total amount of Hazardous and Non-Hazardous Waste Generated by **20%**

(excludes C&D** waste, metric tons)



Reduce total Water Withdrawal **20%**

(including non-contact cooling water*)



Achieve and maintain a combined **Recycling Rate for Hazardous and Non-Hazardous Waste 50%**

(excludes C&D**waste)

Climate change is one of the most critical issues facing our planet. We are committed to helping address this issue by **reducing our direct impacts from manufacturing** and by making a positive difference in managing indirect impacts across our value chain. We encourage our suppliers, distributors and other stakeholders to reduce their impact.

AbbVie 2025 goals (absolute VS baseline 2015)

Environmental targets defined at the local level in **Campoverde** are **aligned** with **global goals for 2025**. Although keeping this high level of performance is very challenging, we are looking for new ways of improvement all the time.



AbbVie Campoverde Plant

In 2021, the **Campoverde Plant** was once again granted the renewal of the **EMAS** registration (AbbVie joined, upon its own initiative, the European Eco-management and Audit Scheme in 2008) which is a recognition of **AbbVie's continuous improvement of its environmental performance**, compliance with environmental law and transparency in communicating with its employees and the general public.

AbbVie Campoverde EHS MANAGEMENT SYSTEM has been certified according to ISO 14001, ISO 45001, UNI 10617, ISO 50001. The site is registered EMAS since 2008.



Reduction of pollutants quantity discharged to surface water

RESULTS 2021 vs 2005

REDUCTION OF APPROXIMATELY

-67% COD mass flow

2025 TARGET

MAINTAIN COD MASS FLOW BELOW

<80 kg/g

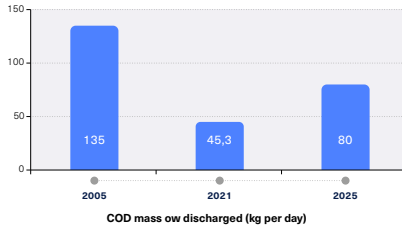
COD mass flow

In addition, in order to better manage our sludge, in 2017 we installed a centrifugation and drying system that allows us to achieve excellent results in reducing sludge waste volume sent for external disposal.

Campoverde Plant is equipped with a wastewater treatment plant according to the BAT (Best Available Techniques). Site wastewaters have been discharged into a local creek "Fosso Spaccasassi". In the last ten years we have continually worked to achieve a reduction in the pollutants quantity sent to the creek.

This is accomplished by increasing the efficiency of wastewater treatment and by improving wastewater pre-treatment in order to minimize organic load inlet to the wastewater treatment plant.

A tertiary treatment ozone system unit was installed in 2016 to further increase the effectiveness of biodegrading solvents and active pharmaceutical ingredients.



Water withdrawal reduction

RESULTS

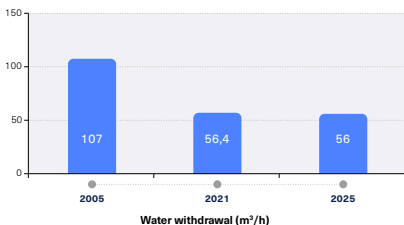
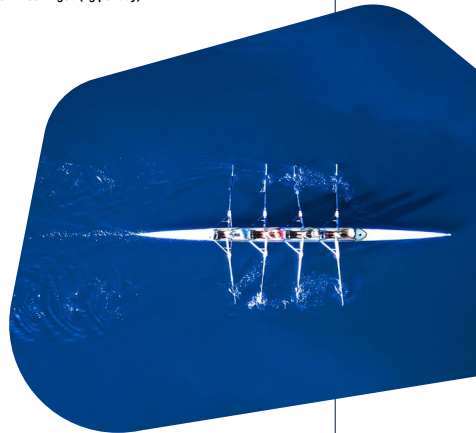
2021 vs 2005

REDUCTION OF **-45%**

2025 TARGET

REDUCTION OF **-10%**

It's important to highlight that the results obtained are absolute values and not normalized with production volumes. Even though the results achieved are impressive, the Campoverde Site sets aggressive 2025 targets to further reduce water consumption by



continuing consumption rationalization, waste minimization and water reuse and recycle opportunities research.



Maintain volatile organic compounds emission index <2,5%

RESULTS 2021 vs 2005

REDUCTION FROM
1,3% TO 0,3%

VOC Index

2025 TARGET

MANTAINE BELOW
2,5%

VOC Index

VOC Index is the total amount of VOC emitted compared with total amount of VOC handled.

Volatile Organic Compound emissions (VOC) are due to solvents handling during the manufacturing activities.

According to European legislation, the BAT (Best Available Technologies) limit for new plants is 5% and the historical limit applicable for Campoverde Site is 15%.

Considering these limits and recognizing that new products are expected to be introduced into the Chemical Plants, Campoverde still sets an aggressive 2025 target to maintain VOC index below 2,5%.

Hazardous and non-hazardous wastes reduction

RESULTS 2021 vs 2005

CPD2 CHEMICAL PLANT
REDUCTION OF
APPROXIMATELY

-50% of wastes
production Index

SEND TO
RECOVERY

90%

zero waste to landfill

2025 TARGET

REDUCTION OF

-10% of New Product Waste index

SEND TO RECOVERY

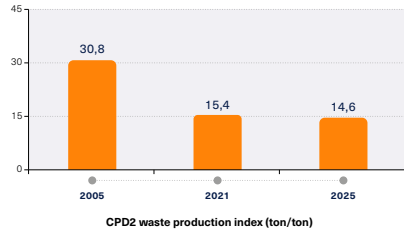
>85% zero waste to landfill

Today about 90% of wastes produced are sent out for external recycling. Zero wastes have been sent to landfill since 2005!

Wastes reduction and management are Campoverde strategic goals. A new challenge target has been set for 2025.

To decrease wastes production in chemical manufacturing departments, we are continuously working on improving process efficiency and product yields.

In addition to reducing our environmental footprint, the exhaust solvent recovery activity is very important for the site. The distillation plant in CPD2 department allows us to reuse organic solvents in production - saving fresh solvents purchase and dramatically reducing hazardous waste production.



Energy efficiency and CO₂ emission reduction

RESULTS 2021

ENERGY REDUCTION
CONSUMPTION BASELINE 2012

-7%

% OF SELF-PRODUCED
ENERGY NEEDS

>95%

CO₂ EMISSIONS REDUCTION
BASELINE 2015

-10%

ELECTRICITY PURCHASED
FROM RENEWABLE SOURCES

100%

2025 TARGET

REDUCTION
5%

CO₂ reduction (2025 vs 2015)
100% of electricity purchased
from renewable sources

Energy consumption reduction and rational use of energy are key aspects for the Campoverde Site. In the last seven years, the self-production energy fulfilled more than 90% of the site needs. This was accomplished by employing the combination of a cogeneration plant fed by natural gas and with renewable sources, such as solar panels and hydroelectric technology. Notably, 100% of the electricity purchased from the external grid is from renewable sources.

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