

Energy efficiency for Energy transition

Dan Bandrabulă – Energy & Technical Facilities Manager

Această prezentare este proprietatea Zentiva și nu poate fi reprodusă, distribuită sau publicată fără consimțământul Zentiva

C2-Internal

Dan Bandrabula – About me

Master's degree: Management of the Electric Systems

Authorized Energy Manager by the Ministry of Energy

Job History: 2010 ≻ Hydro Power Plants Chief – Romenergo

<u>2013</u>

SLP/Energy Manager – Coca Cola HBC Romania

<u>2016</u>

Energy Specialist – S.C Zentiva S.A

<u>2018</u>

Energy & Technical Facilities Manager – S.C Zentiva S.A

<u>2023</u>

Energy & Technical Facilities Manager – S.C Zentiva S.A & Labormed



Zentiva in Romania - History



București.

Uzina de Medicamente

2000 - 2005

Începe procesul de reconstrucție aproape de la zero a fabricii: clădiri, echipamente si tehnologii noi.



Zentiva este achiziționată de Sanofi.

2009

ZENTIVA O COMPANIE SANOFI

Zentiva devine companie independentă, sustinută de Advent International.

Advent International

2018

Achiziția în România a Alvogen România si a fabricii Labormed Alvogen

Labormed Alvogen

2020



Fabrica de Medicamente Bucuresti îsi modifică numele în SICOMED, acronimul pentru Sinteze-Conditionări Medicamente.

1990

împreună pentru sănătate

10

ZENTIVA



2005

Sicomed este achizitionată de grupul Zentiva.

export. 2011

Este construită

European. Se

reia activitatea de

secția de Peleți si se finalizează Labolatorul



Achiziția companiei Solacium Pharma – extindere portofoliu OTC si suplimente alimentare

2019

Această prezentare este proprietatea Zentiva și nu poate fi reprodusă, distribuită sau publicată fără consimțământul Zentiva



Zentiva in Romania – biggest local medicine production capacity

General facts

- 850 employees in 2 sites
- 230 locally manufactured products
- 695 forms of packaging
- Over 5 billion galenic units
- 163 million boxes manufactured
- European testing and release laboratory in Zentiva: 650 forms of packaging, 30 markets

Portfolio

- Export in 34 markets
- 60% from production is going to export
- TOP 3 Zentiva Romania markets: RO, DE, FR

Technology

- Solid shapes
 - Dry / wet granulation
 - Tableting / encapsulation
 - Coating (tablets/pellets)
- Injectable forms (only in Zentiva site)
 - Ampoules of 1, 2, 5, 10 ml
 - Aseptic filling
 - Sterilization in final container

Certification

- RBPF (GMP):
 - Zentiva: EU, AU, BY, RU
 - Labormed: ME
- ISO 9001 and ISO 45001 in Zentiva
- ISO 14001 in Zentiva and Labormed
- ISO 50001 in Zentiva

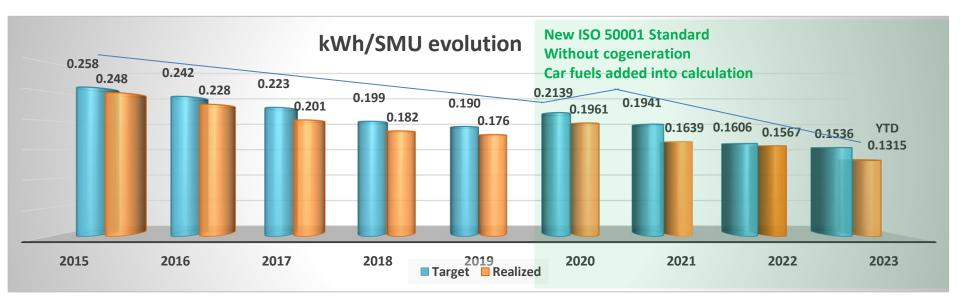
Energy Efficiency (what we have done until now in Zentiva site)

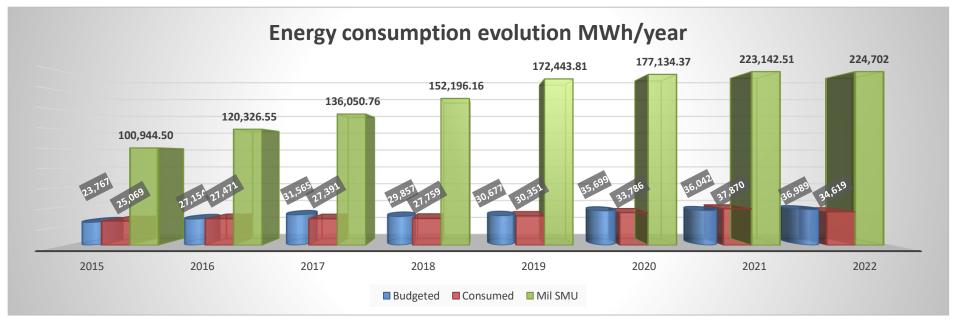
Zentiva is accredited since 2015 with the ISO 50001 standard - Energy Management and in 2020 we are accredited on the latest version of this standard.





Energy Performance recorded





C2-Internal

Bucharest (both factories) Energy Efficiency Projects 2022

	Project name	Implementation	Saving estimated	
	Cooling capacity optimization by implementing a 2 nd chilled water station	September 2022	Electrical Energy 1163 MWh/year 9.3% less consumption	
	Centralized chilled water circuit for Packaging machines	October 2022	Electrical Energy 73 MWh/year 0.5% less consumption	Total investments in 2022: 1.293 mil euroTotal energy savings expected in 2023:- 1469 MWh/year electrical en (10% of total energy consumption) - 3288 MWh/year natural gas (12% of total natural gas consumption)Total CO2 emission reduction expected 657 tCO2 emisions reduction
	Photovoltaic system in B2 (warehouse)	November 2022	Electrical Energy 233 MWh/year 10% less consumption	
Turflow Type Heat Exchanger EVC (Exhaust Vapour Condenser)	Heat recovery from steam condensate	October 2022	Natural gas 1855 MWh/year 7.5% less consumption	
BOSCH	New Steam Boiler	September 2022	Natural gas 1433 MWh/year 6% less consumption	

ZENTIVA





Our sustainability strategy – framed around 3 pillars



People

• We are building Zentiva as a great place to work where everyone can be their true selves. We take care of our people, their loved ones, and the people we serve; as well as communicate transparently and create value as one team.

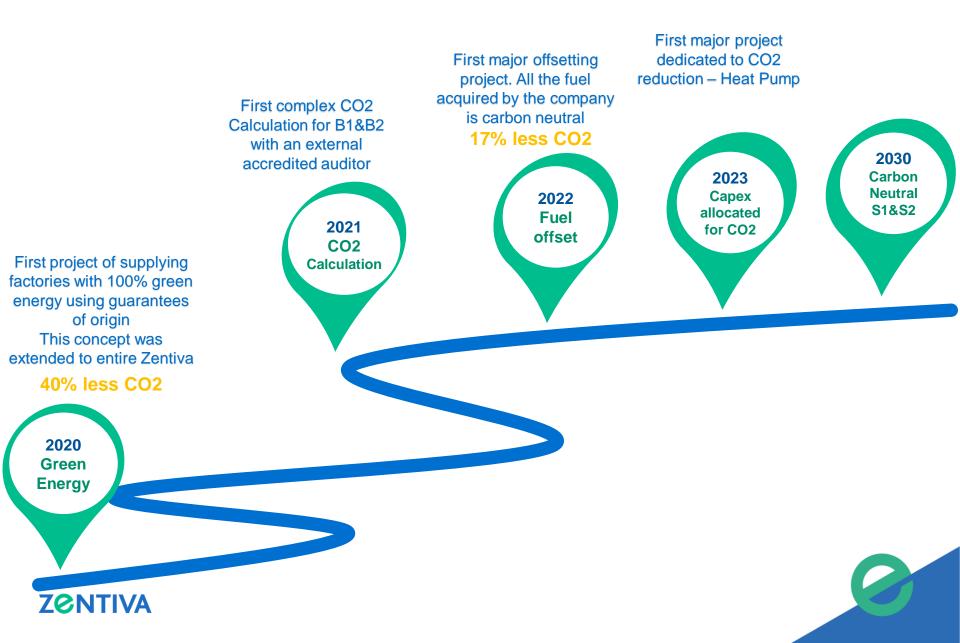
Partners

• We are establishing sustainable relations with our partners who share the same vision as us.

Planet

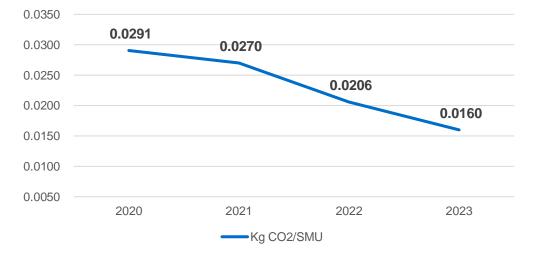
 Zentiva is contributing to a greener planet by committing to be carbonneutral for scope 1 and scope 2 by 2030. We will achieve that goal by implementing a comprehensive climate strategy that focuses on reducing carbon emissions, sourcing from renewable energy, reducing water and energy consumption and waste. We help the planet to stay healthy by planting trees and investing into biodiversity projects.

Sustainability in Zentiva (what we have done)





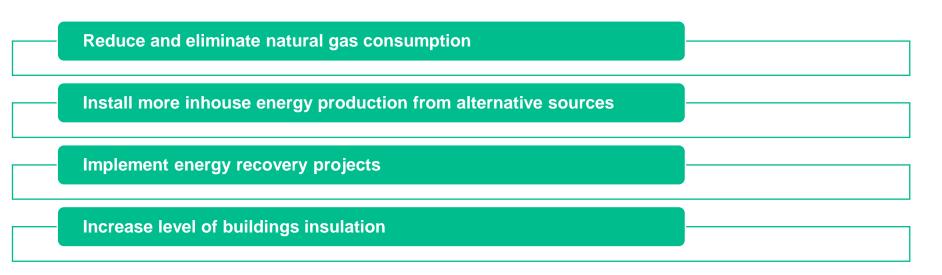
Kg CO2/SMU



CO2 Emissions Evolution Zentiva

ZENTIVA

Next Steps – Carbon Neutrality Roadmap



How – projects in analysis

- Installation of industrial heat pumps
- Increase production from photovoltaic panels
- Increase usage of heat recovery from boilers, AHU units, compressors
- Isolate the buildings
- Replace actual NG steam boilers with electrical steam boilers



ZENTIVA

ZORITIZA

Thank you!



Această prezentare este proprietatea Zentiva și nu poate fi reprodusă, distribuită sau publicată fără consimțământul Zentiva