Paşabahçe Bulgaria, Trakya Glass Bulgaria and Air Liquide thank European Commission LIFE+ program for funding the LIFE Eco-HeatOx, LIFE CleanOx and LIFE Smart Oxy-Boost projects.



### **ONGOING LIFE PROJECTS**

### **NEW!**

<b>Project Acronym</b>	LIFE CleanOx	LIFE Smart Oxy-Boost
Project Title	Cleanest oxy-fuel combustion technology with radiation based waste heat recovery for glass melting furnaces	Smart oxygen boosting for reducing energy consumption and emissions of glass melting furnaces
<b>Project Number</b>	LIFE16 CCM/BG/000059	LIFE17 CCM/BG/000069
<b>Project Location</b>	Targovishte, Bulgaria	Targovishte, Bulgaria
<b>Total Amount</b>	€ 2,794,283	€ 1,990,591
% EC co-funding	€ 1,244,870	€ 884,693
<b>Project Start Date</b>	01/07/2017	01/07/2018
<b>Project End Date</b>	30/06/2021	31/12/2021
Coordinating Ben.	PASABAHCE BULGARIA EAD	TRAKYA GLASS BULGARIA EAD
Associated Ben.	Air Liquide S.A.	Air Liquide S.A.



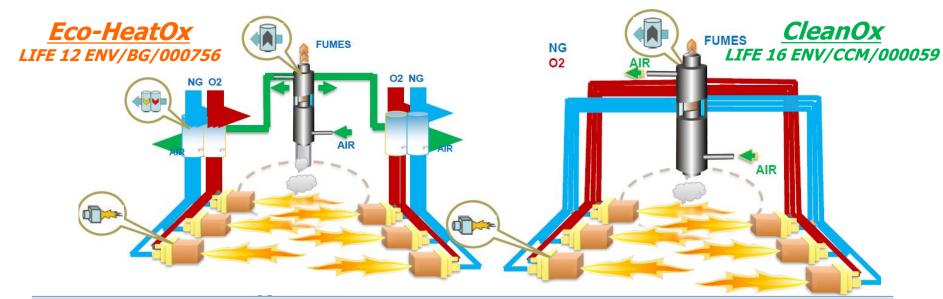


## **OBJECTIVES & SCOPE (LIFE CleanOx)**

Demonstrate innovative radiative heat exchanger to validate and promote LIFE CleanOx for greater reduction in energy and pollutants with significantly lower CAPEX compared to LIFE Eco-HeatOx

### Main Objectives

- Reduce **GHG** emissions (30% less CO<sub>2</sub> and 90% less NOx) compared to end-fired furnace
- Reduce **Energy** consumption by 30% compared to end-fired furnace
- Reduce **CAPEX** by 50-75% compared to LIFE **Eco-HeatOx**







# **EXPECTED IMPACTS (LIFE CleanOx)**

At the end of the project,

3 or 5 years after the project,

Objective	Indicators		Estimated Impact (absolute values)
Improved Environmental and Climate Performance (including resilience to climate change)	Reduction of greenhouse gas	CO2	6 750 tons / year
	emissions (GHG) Air quality and emissions	Air Pollutants (please specify: NOx, PM, etc)	NOx reduction 376 tons / year
	Reduction / substitution of dangerous substances	Ammonium Solvent (%25 hydrated)	405000 liters / year
Better use of natural resources	Energy	Reduced energy consumption	35 Gwh / year

Improved Environmental and Climate Performance (including resilience to climate change)	Reduction of		
	greenhouse gas	CO2	283 500 tons / year
	emissions (GHG)		
	Air quality and	Air Pollutants (please	15 750 tons / year
	emissions	specify: NOx, PM, etc)	NOx reduction
	Reduction /		
	substitution of	Ammonium Solvent	17 010 000
	dangerous	(%25 hydrated)	liters / year
	substances		
Better use of natural	Energy	Reduced energy	1 470 Gwh / year
resources		consumption	1470 GWII7 year

