→ Flight Plan to Net Zero Strategy 2050



Roadmap for a Greener Future – "George Enescu" International Airport Bacău



Mission Statement – Our Sustainable Flight Path

At "George Enescu" International Airport Bacău, we have set our course towards a clear destination: **Net Zero Emissions**.

As a responsible regional airport, we align with international best practices in sustainable aviation and are committed to operating an infrastructure that is more efficient, energy-independent, and environmentally friendly.



→ Flight Deck Overview – Key Sustainability Initiatives

Runway to Renewables – Project 1: Solar Energy Deployment

Objective: Power the airport with clean, in-house generated energy to reduce the carbon footprint and dependence on external resources.

Project Configuration:

- Installation of a photovoltaic park with a capacity of
 1.25 MW
- Energy storage system of 2,064 MWh
- Available land: 20,910 sqm
- Annual CO₂ emissions reduction: >1,200 tons
- 70% of the produced energy to be used directly for airport operations
- Estimated execution time: 18 months
- Eligible value (excluding VAT): €3,353,435

Impact: This project will serve as a green "Auxiliary Power Unit" (APU), providing clean energy for most airport operations.



→ Fleet Modernization - Project 2: 100% Green Equipment Transition

Objective: Fully replace fossil fuel-powered equipment and vehicles with electric, zero-emission solutions

Project Configuration:

- More efficient and zero-emission ground support equipment and vehicles
- Significant reduction of local pollution
- A decisive step towards climate neutrality by 2050
- Maximum eligible amount: €18,000,000 (through the State Aid Scheme – Modernization Fund)

Impact: This upgrade represents a complete "retrofit" of the airport's ground equipment fleet, optimizing operational performance while minimizing environmental impact.



→ Reference Year

•2024 – calculation of current emissions: 21,642.00 liters of diesel annually, generating a cumulative level of 57.134,88 kg CO₂/year (≈ 57,13 tons CO₂/year)

→ Intermediate Targets

•2030: 40% reduction of emissions (vs. 2024)

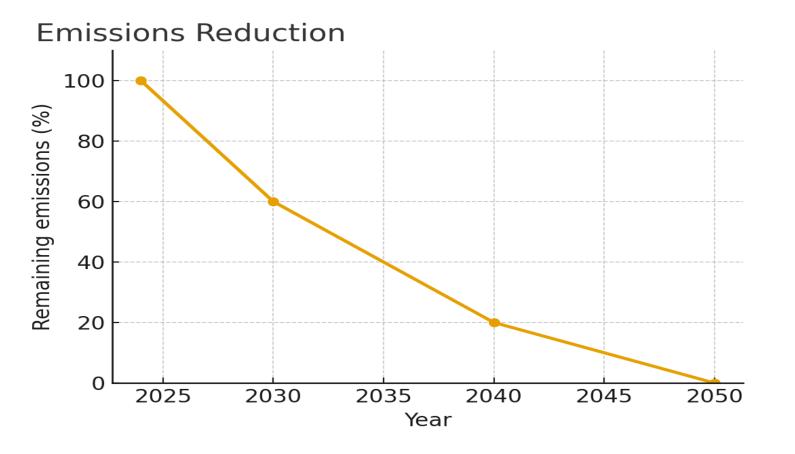
•2040: 80% reduction

•2050: Achieving Net Zero

→ Projects and Timeline

- •2025 2026: Photovoltaic park 1,25 MW + 2,064 MWh storage
- \rightarrow >1.200 t CO₂/year avoided, 70% of consumption covered
- •2027 2028: Transition to 100% electric equipment and vehicles
- → additional reduction of 500–800 t CO₂/year
- •2030: –40% emissions vs. 2024 (possible PV expansion, green hydrogen)
- •2035: Energy infrastructure modernization (LED, heat pumps, smart grid)
- \rightarrow -60% emissions
- •2040: –80% emissions, integration of large-scale storage
- •2050: Net Zero (0 net CO₂ emissions)

CO₂ Emissions Reduction Pathway



Reference Data:

2024: 100% (» 57.13 t CO₂/year)

2030: 60% (» 34.28 t CO₂ /year)

2040: 20% (» 11.43 t CO₂ /year)

2050: 0% (Net Zero)

→ Final Approach – Commitment to the Future

By implementing these projects and maintaining a clear "flight plan" toward sustainability, "George Enescu" International Airport Bacău is not only optimizing its operational performance but also becoming a **regional pilot of the green transition**.

