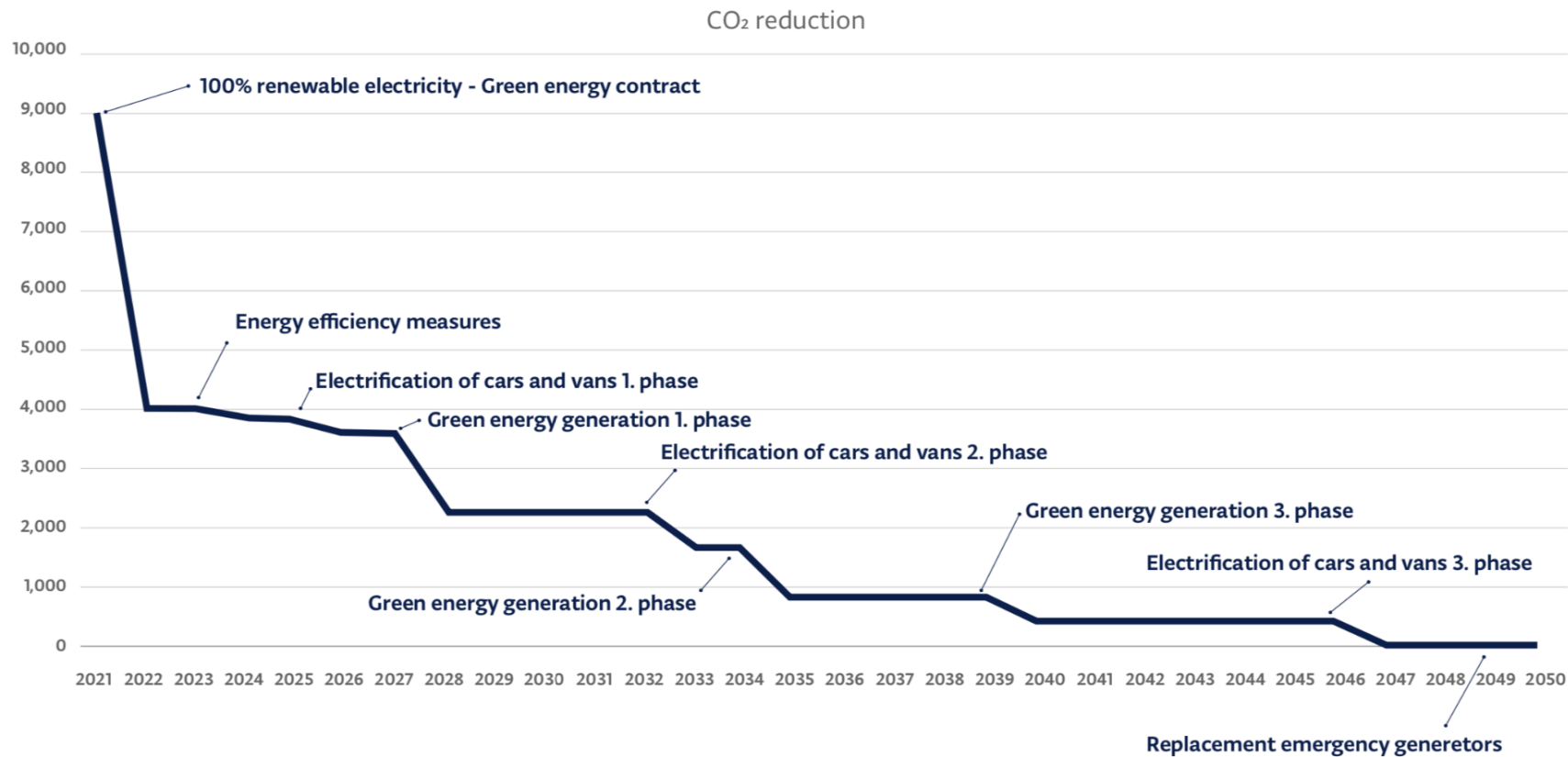




ZAGREB
AIRPORT

Net ZERO Roadmap

Carbon Reduction Strategy



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Carbon Reduction Strategy

Electricity from renewable sources

In 2022, Zagreb Airport entered a green energy purchase agreement with HEP, which guarantees that all the electricity purchased and consumed by Zagreb Airport originates from renewable sources. As electricity makes a significant share in the energy consumption, this measure significantly contributed to reductions in emissions. Switching to green electricity resulted in a reduction of emissions by approximately 56% in 2022.

Due to the green energy purchase agreement, which results in zero emissions from electricity consumption, all measures related to electricity savings and/or the production of electricity from renewable sources will not contribute to the reduction of CO₂ emissions; however, they are important for cost savings and affect the company's image.

Carbon Reduction Strategy

Improving energy efficiency

Energy efficiency measures can also contribute to CO₂ reductions. Zagreb Airport plans to improve the energy efficiency of boilers and the end-user side of the heating and cooling system. The estimations are that this could result in 1.5% reduction in relation to total emissions. Energy efficiency measures include replacement or refurbishment of the old equipment.

Carbon Reduction Strategy

Electrification

Vehicles for ground operations and taxiing are significant sources of CO₂ emissions within the Airport ecosystem. Thus, their electrification is an important step towards carbon neutrality. The transition to electric vehicles is assumed in 3 phases (by years 2026, 2033 and 2047). In the first phase, approximately 50% of the vehicles would be replaced, 20% in the second and 30% remaining vehicles in the last phase. Accordingly, it also proportionally reduces CO₂ emissions (1st phase 2.65% of total CO₂ emission, 2nd phase 6.62% of total and 3rd phase 3.97% of total CO₂ emissions).

Carbon Reduction Strategy

Renewable energy

In the long term, Zagreb Airport sees the potential for emissions reductions based on the production of heat energy from renewable sources. The dynamics of application of these measures, as well as the assumed amount of reduction, follows from further cost-effectiveness analysis to include heat distributor RESALTA within contractual obligations. The estimated amount of CO₂ reduction in 1st phase is 50%, in 2nd phase 30% and 15% in 3rd phase.

Carbon Reduction Strategy

Switching to hydrogen

Lastly, Zagreb Airport plans to replace its own emergency generators with hydrogen generators in 2049. Depending on the condition of existing generators and the commercialization of hydrogen as a fuel, this measure can be applied earlier.

Carbon Reduction Strategy

Carbon removal and storage

Net zero targets require airports to reduce their absolute emissions to the greatest extent possible and address any remaining emissions through investment in carbon removal and storage. In the transition period, while Zagreb Airport will not be able to completely remove GHG emissions, it will purchase carbon credits and participate in carbon removal projects, e.g. through planting trees in collaboration with the local community to compensate for the remaining emissions.