



# Net Zero Carbon Roadmap by 2050

# Introduction

- Commitment
- Responsibility and organizational structure
- Method and approach



# Commitment



*The Management Company of Falcone Borsellino Airport in Palermo, GESAP, in carrying out its activities aimed at providing its customers with safe, efficient, and high-quality services that meet user expectations, adopts the principles of sustainable development and the fight against climate change, committing itself to environmental protection, to the improvement of its energy efficiency, to the fulfillment of compliance obligations with applicable environmental and energy laws and regulations related to the organization, facilities, infrastructure, and corporate systems, as well as to the continuous improvement of its integrated environmental and energy management system, in order to optimize overall performance.*

*As confirmation of the strategic importance assigned to these fundamental principles of environmental protection, sustainable development, and climate change mitigation, GESAP has signed the ACI Resolution “Net Zero Carbon Emissions by 2050”.*

*The commitments undertaken through the signing of the ACI Resolution “Net Zero Emissions by 2050” have been reaffirmed by GESAP with the signing of the Toulouse Declaration, confirming its goal of achieving net zero CO<sub>2</sub> emissions by 2050.*

*Environmental and Energetic Policy, December 2025*

La Direzione Qualità e Ambiente

D.ssa Gabriella Romito

L'Amministratore Delegato

Dr. Gianfranco Battisti

# Organisational structure

Dr. Gabriella Romito



CARBON MANAGER

Eng. Alessandro Messina



ENERGY MANAGEMENT

Eng. Ciro Mancuso



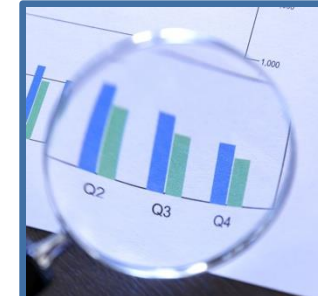
ENVIRONMENTAL  
MANAGER

Eng. Luigi Torregrossa



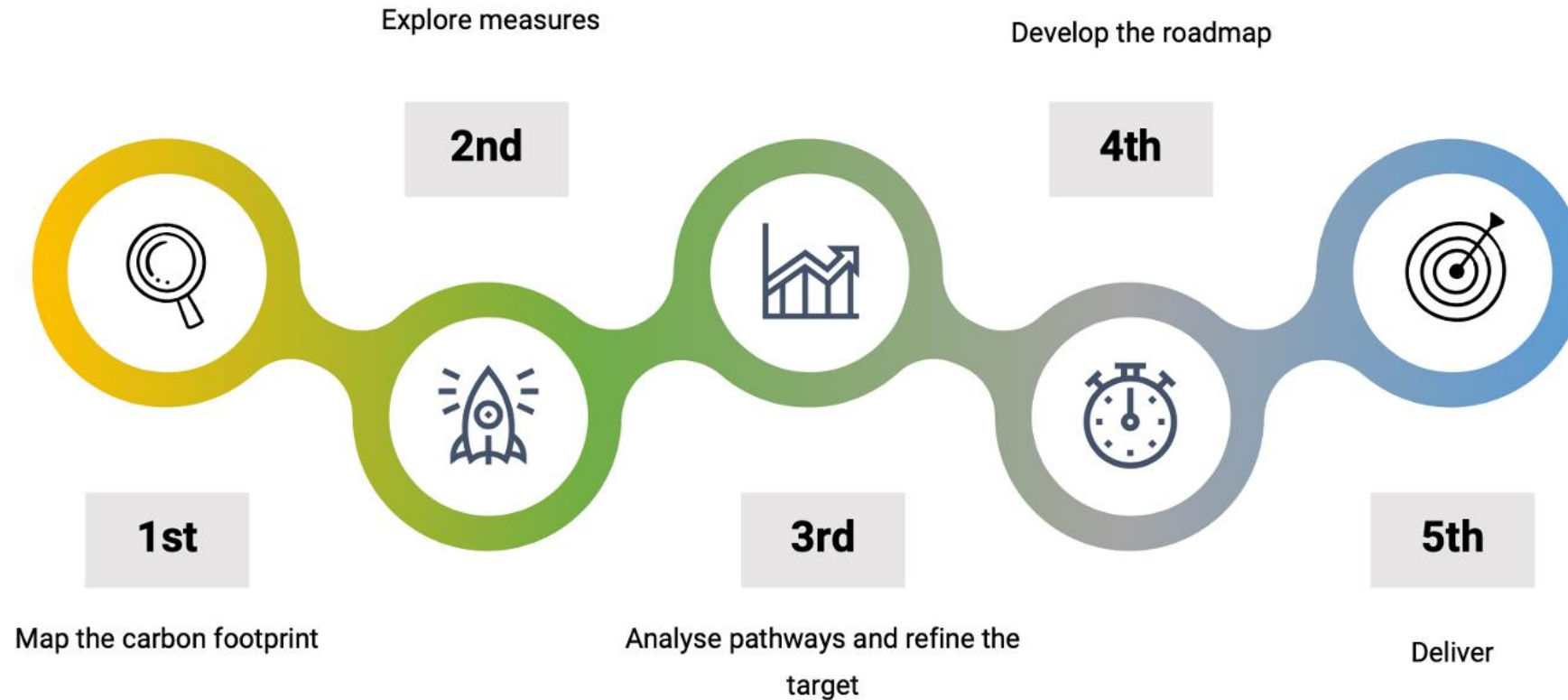
PURCHASE AND  
GENERAL SERVICES  
AIRFIELD MANAGEMENT  
COMMUNICATION  
MAINTENANCE

Eng. Vittorio Crisà



PLANNING AND CONTROL

# Approach

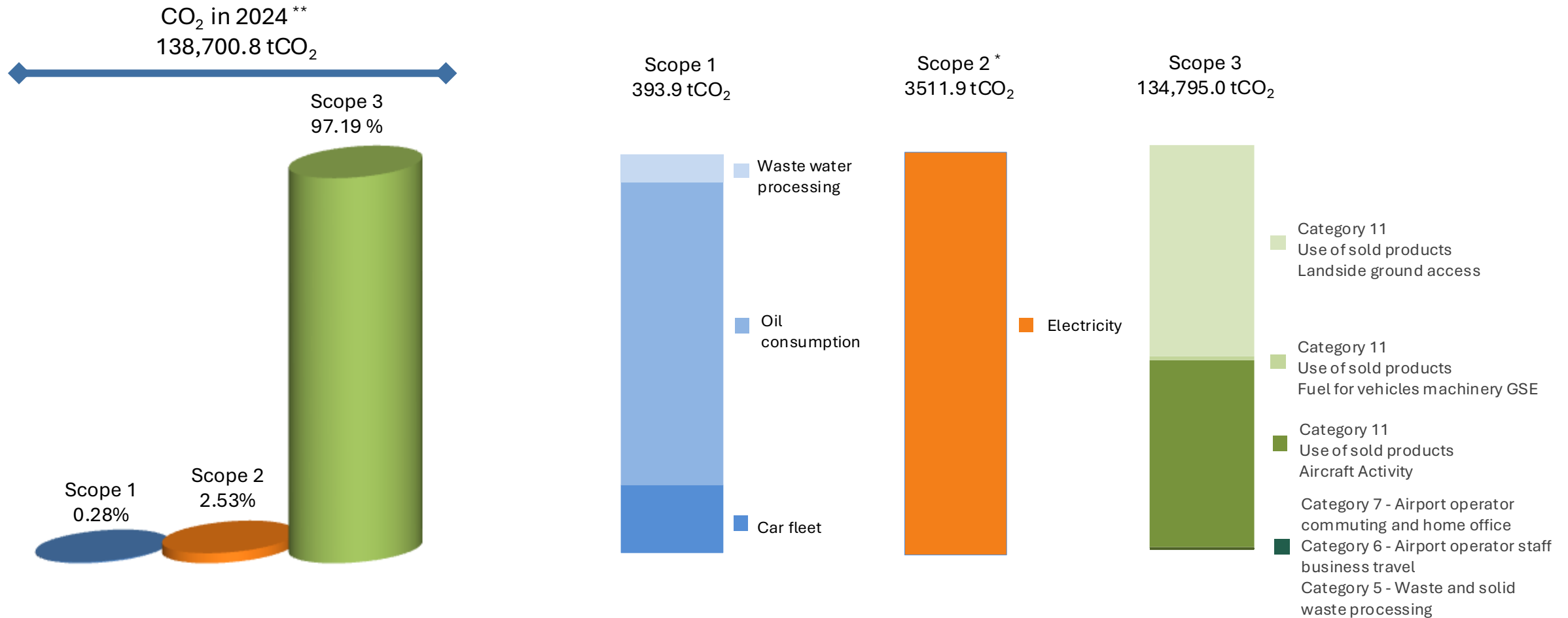


# Mapping

- Our Carbon Footprint 2024
- Scope 1&2 Footprint 2024 vs 2018
- Emission trend



# Our Carbon Footprint 2024



\* Indirect emissions are calculated with location-based approach

\*\* The Carbon Footprint is calculated according to the Airport Carbon Accreditation manual

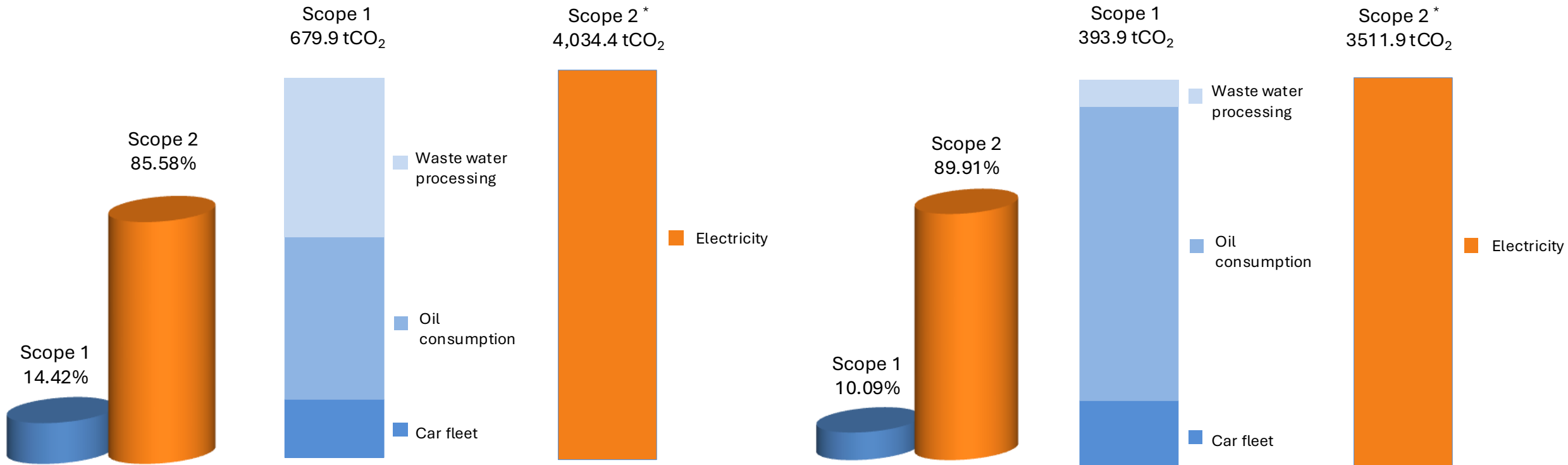
# Scope 1&2 Footprint 2024 vs 2018



Scope1&2 in 2018 \*\*  
4,714.4 tCO<sub>2</sub>

-809,2 tCO<sub>2</sub>

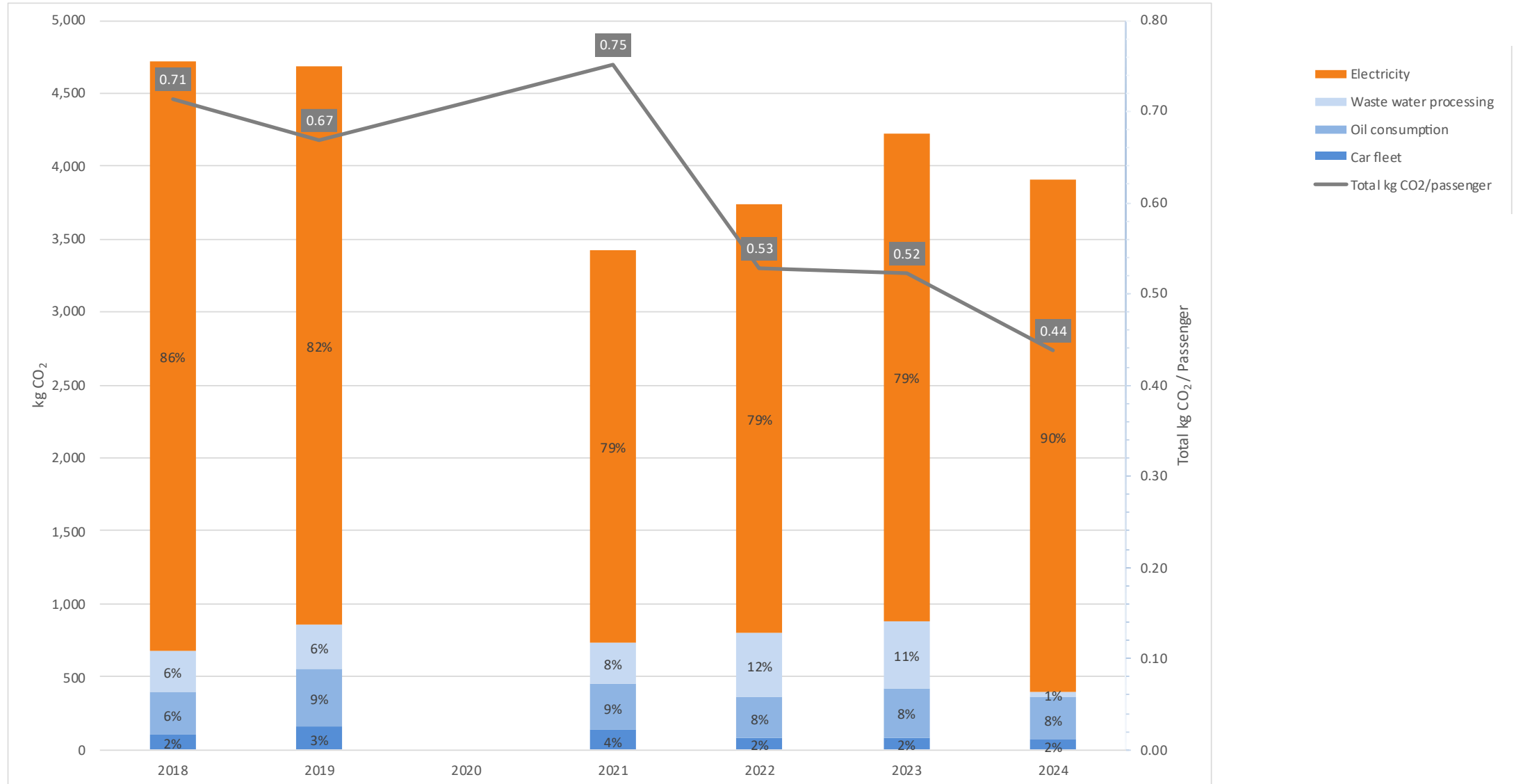
Scope1&2 in 2024 \*\*  
3,905.2 tCO<sub>2</sub>



\* Scope 2 emissions are calculated with location-based approach

\*\* The Carbon Footprint is calculated according to the Airport Carbon Accreditation manual

# Emissions trend



# Measures

- Actions on Car Fleet
- Actions on Oil consumption
- Actions on Electricity
  
- Carbon removals



# Measures

## Actions on Car Fleet

**Building the eco-system to reach a 100% electric fleet**



**Status:** In 2024, the 38% of the mileage of the fleet was covered by electric vehicles

**Target:** 0 emissions by fleet within 2035

## Actions on Oil consumption

**Electrification of the heating system for building and structure**



**Status:** In 2024, emissions by oil represented around the 7% of the overall carbon footprint

**Target:** 0 emissions by oil within 2040

# Measures

## Actions on Electricity

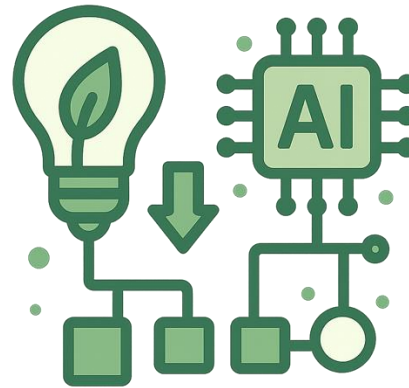
### Boosting the energy produced with photovoltaic plant



**Status:** photovoltaic plant in phase of enlargement, reaching a power of 2MW.

**Target:** around 20% of the electricity needs of the airport covered by 2030.

### Improving Energy Efficiency Through the Implementation of Artificial Intelligence Algorithms



**Target:** Estimated energy consumption reduction between 15% and 20% by 2030.

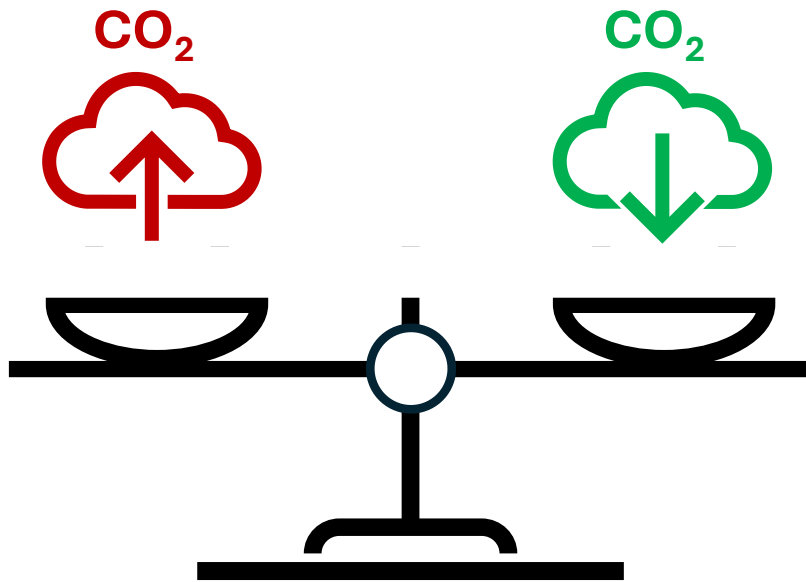
### Purchase of electricity from renewable resources



**Target:** purchase of 100% electricity from renewable resources with GOs, with 0 emissions by electricity (Market Based approach) within 2040.

# Measures

## Carbon removals



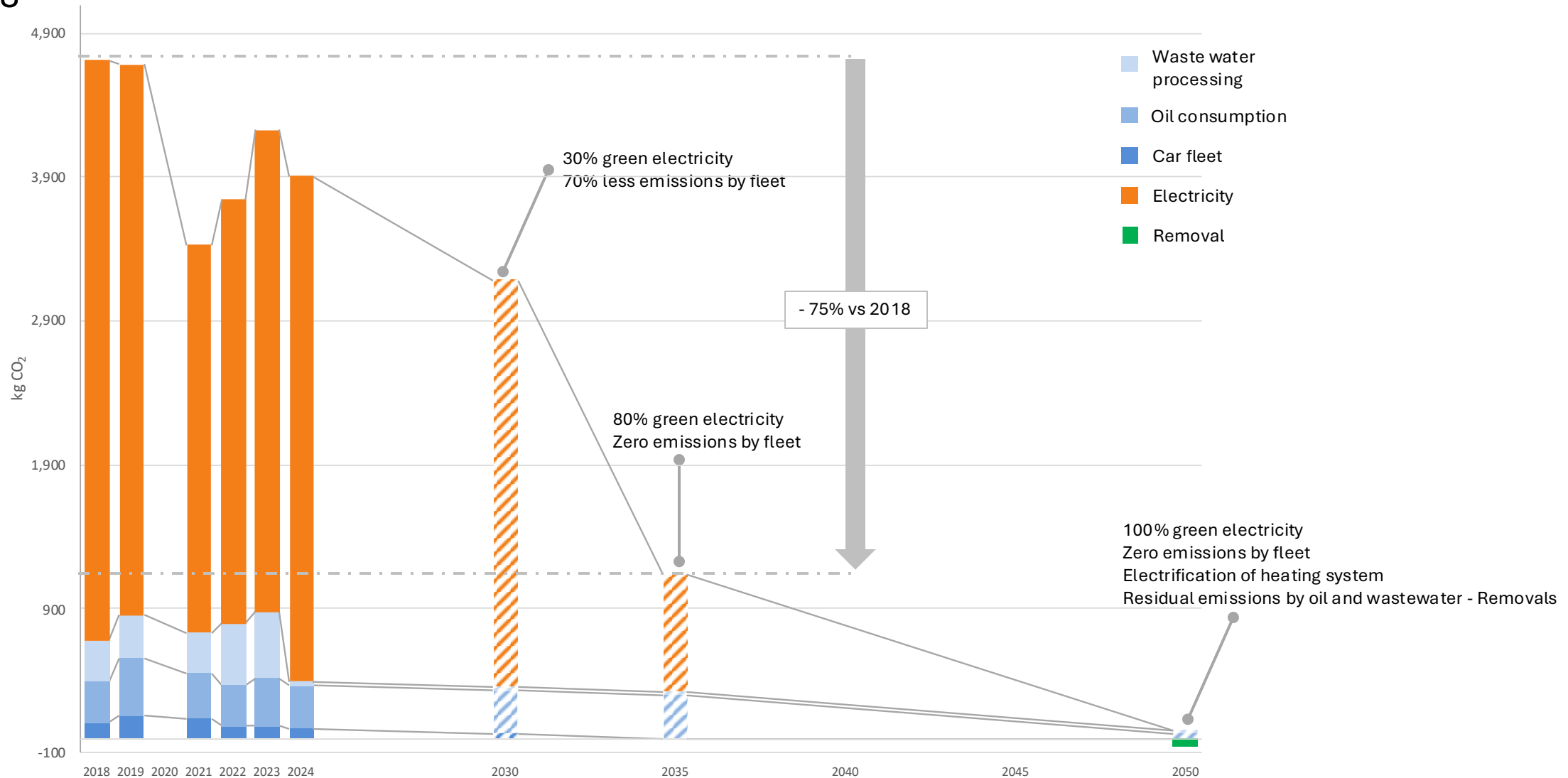
**Target:** after reducing to its minimum CO<sub>2</sub> emissions with technical and organizational measures the residual emissions will be addressed thorough certified offset removals by 2040

# Trajectories and targets



# Trajectories and targets Scope 1&2

Baseline 2018  
4,714.4 tCO<sub>2</sub>



## Develop and deliver the roadmap

- Participation to ACA
- Training
- Communication



# Participation to ACA



**Level 5**  
 Net Zero\* on Scope 1 & 2 emissions  
 Roadmap to Net Zero on Scope 3  
 Investment in offset removal

Expected within 2050



**Level 4+**  
 Level 4 requirements  
 + Offsetting of residual  
 Scope 1 & 2 emissions

Expected within 2030



**Level 4**  
 Absolute emissions reductions in line with the  
 Paris Agreement,  
 Enhanced 3<sup>rd</sup> party engagement



**Level 3+**  
 Level 3 requirements  
 + Offsetting of residual  
 Scope 1 & 2 emissions

Since 2024 on 2023 data



**Level 3**  
 Engagement of 3<sup>rd</sup> parties  
 & Measurement of their  
 emissions



**Level 2**  
 Emissions reduction target,  
 Carbon management plan  
 & Annual reductions



**Level 1**  
 Carbon footprint & policy

Scope 1 & 2

+ Selected Scope 3 sources

Full carbon footprint calculation

\*Minimum 90% reduction on Scope 1 & 2 sources

## CERTIFICATE of ACCREDITATION



This is to certify that **Airport Carbon Accreditation**, under the administration of Environmental Minds, confirms that the carbon management processes at



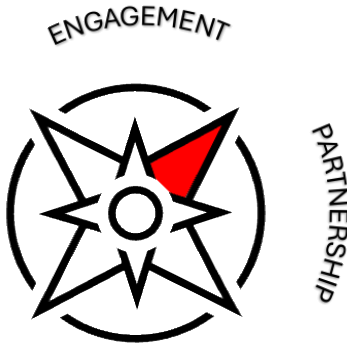
have earned the accreditation of **LEVEL 3+**, in recognition of the airport's exemplary work in reducing its carbon emissions, engaging other stakeholders to do the same and compensating responsibly the residual carbon emissions under its control, as part of the Global airport industry's response to the challenge of Climate Change.

Olivier Jankovec  
 Director General  
 ACI EUROPE

Panagiotis Karamanos  
 Programme Director  
 Environmental Minds

# Participation to ACA (Scope 3)

## Moving from engagement to partnership



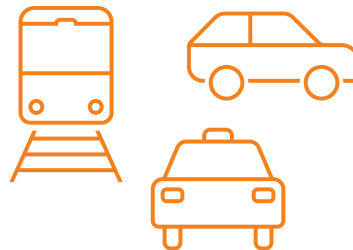
In compliance with requirements since ACA Level 4  
Scope 3 emissions will be addressed by partnership with stakeholders

## Efforts based on ranking of sources

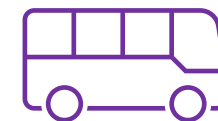
AIRCRAFT FULL FLIGHT  
AND LTO



LANDSIDE ACCESS AND  
EMPLOYEE COMMUTING



HANDLING



# Training and Communication

## Training



- Education and training on environmental topics for employees represented a pillar for the Company (100% of employees trained in three years)
- Key element also for the future
- Enlargement of the training program to stakeholders, to rise their engagement and awareness

## Communication



- Participation to national and international events dealing with environmental sustainability
- Leading role towards sustainability for the local context
- Drafting of the Environmental Report and Communication

## Contact info

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Carbon Manager

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[ACA@gesap.it](mailto:ACA@gesap.it)

