AÉROPORT LA RÉUNION ROLAND GARROS

ROADMAP TO NET ZERO CARBON 2050

MAY 2024

AÉROPORT DE LA RÉUNION ROLAND GARROS

OBJECTIF AÉROPORT Zéro CARBONE

airport carbon accreditation

1. CHALLENGES
2. OBSERVATION
3. ACTION PLAN

23/05/2024

ROADMAP TO NET ZERO CARBON 2050

CONTEXT

ECONOMIC

- High volatility in energy costs
- Increase in passenger traffic

REGULATORY

- Growing pressure on business to achieve carbon neutrality

POLITICAL

- Moving towards carbon neutrality : an international and national desire, but also a profession ACI/UAF
- A national and regional strategic challenge for ARRG

SUSTAINABLE DEVELOPPEMENT 2023-2028

ONE OF THE PILLARS OF OUR UPCOMING CSR APPROACH

THE THREE PILLARS OF THE MULTI-YEAR PLAN

1. DECARBONIZING ENERGY NEEDS

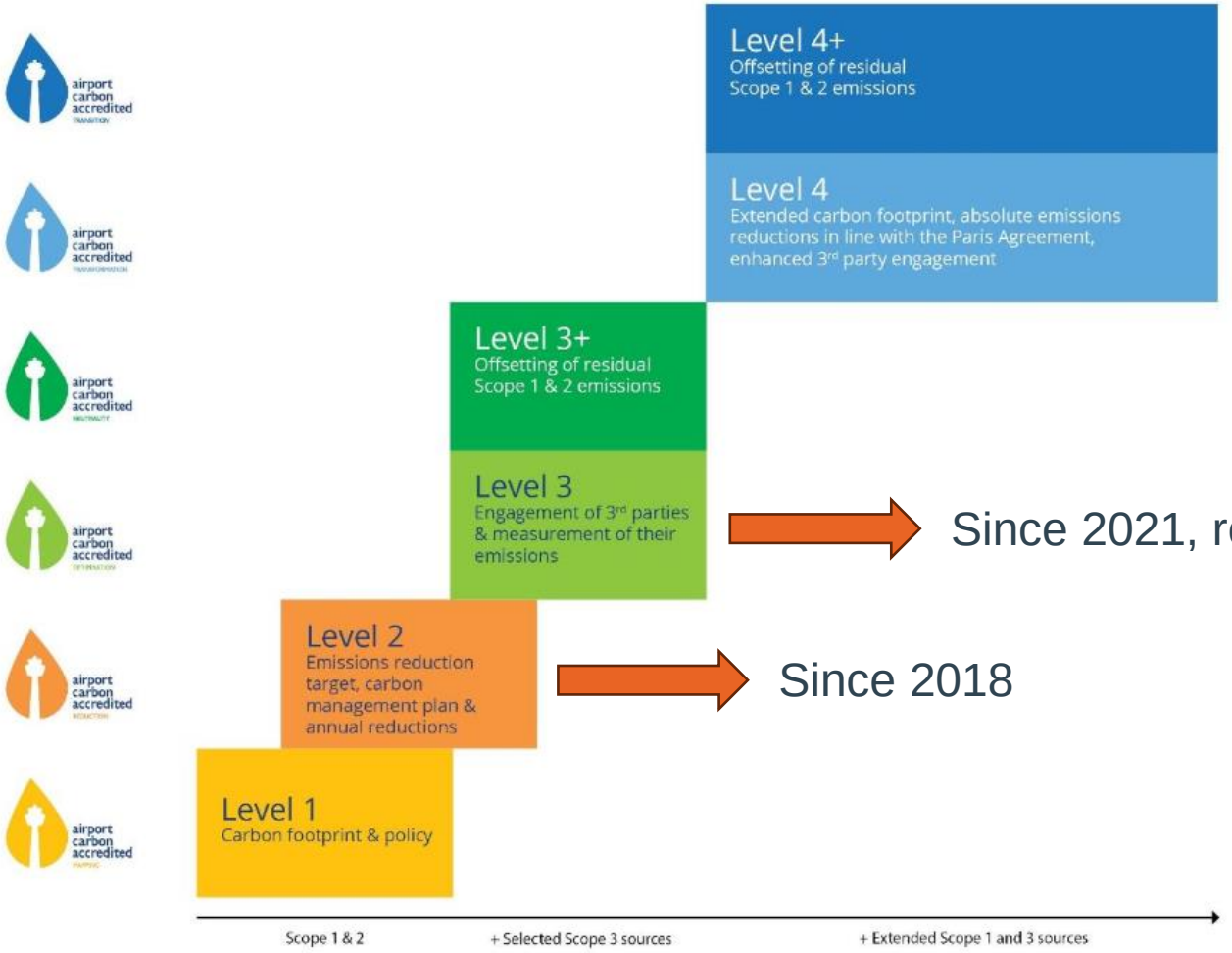
2. EMBEDDING THE DEVELOPPMENT MODEL IN THE PRINCIPLES OF THE CIRCULAR ECONOMY

3. PRESERVING NATURAL RESSOURCES AND BIODIVERSITY

CONTRIBUTING

GLOBAL CARBON NEUTRALITY

ACA COMMITMENT

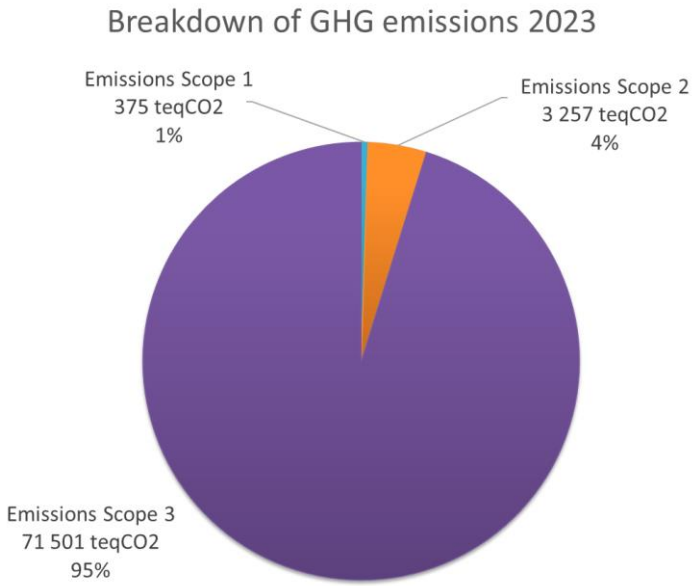


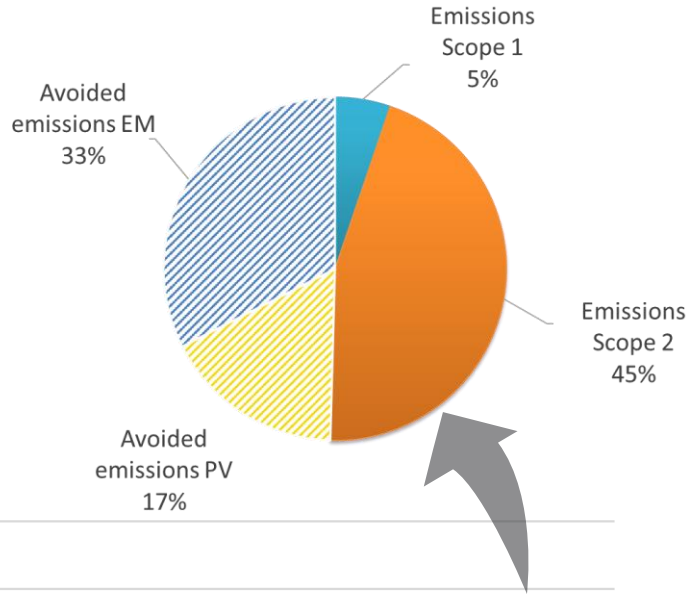
2025 Goal

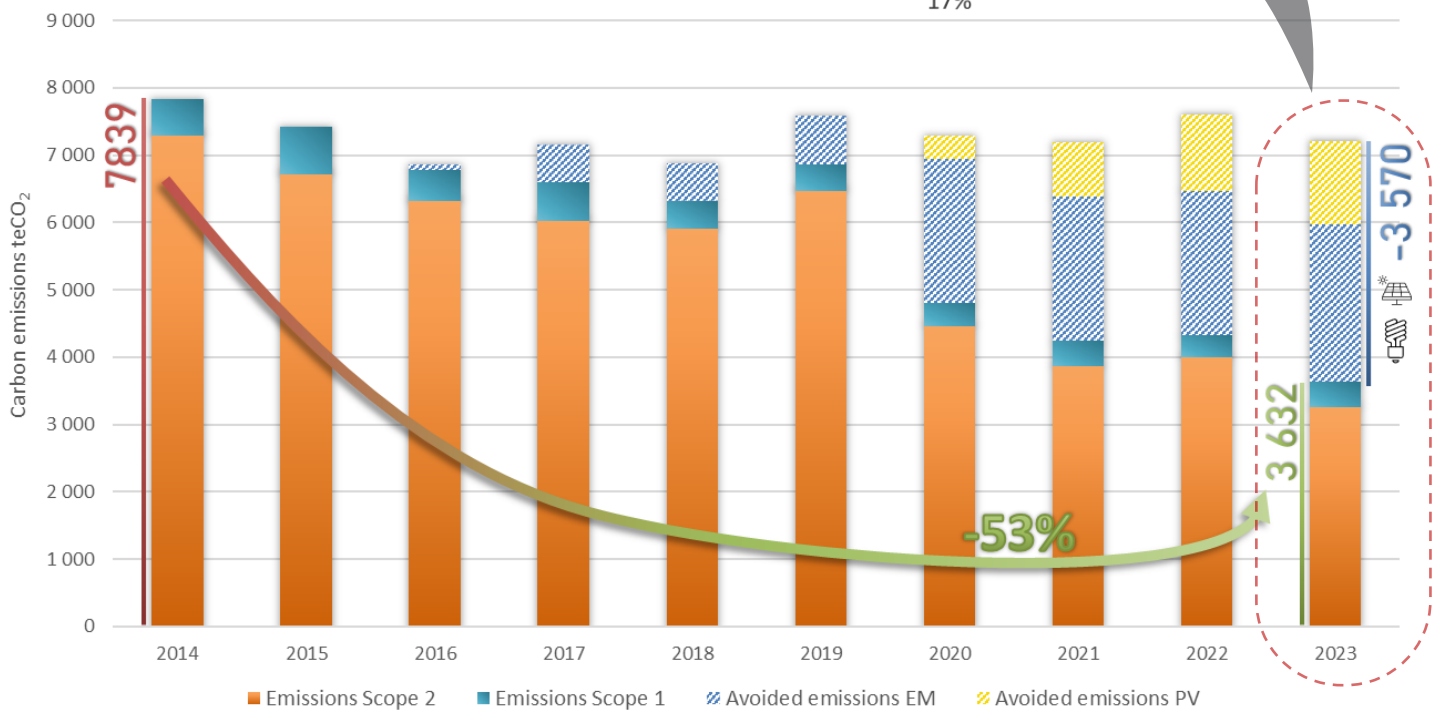
Since 2021, renewal 2023/2024

Since 2018

CARBON FOOTPRINT







- RESULTS: **53% GHG emissions reduction during the period 2014-2023** (scope 1&2)
- 2023 GHG EMISSIONS : **1,4 kgCO2e/PAX** (3,9 kgCO2e/PAX in 2014)

SHORT TERM

Carbon reduction on scopes 1 & 2

LONG TERM

Net carbon neutrality through carbon capture and storage

2024 | 2026 | 2030 | 2050

NOW

Development of the Net Zero Carbon roadmap

MEDIUM TERM

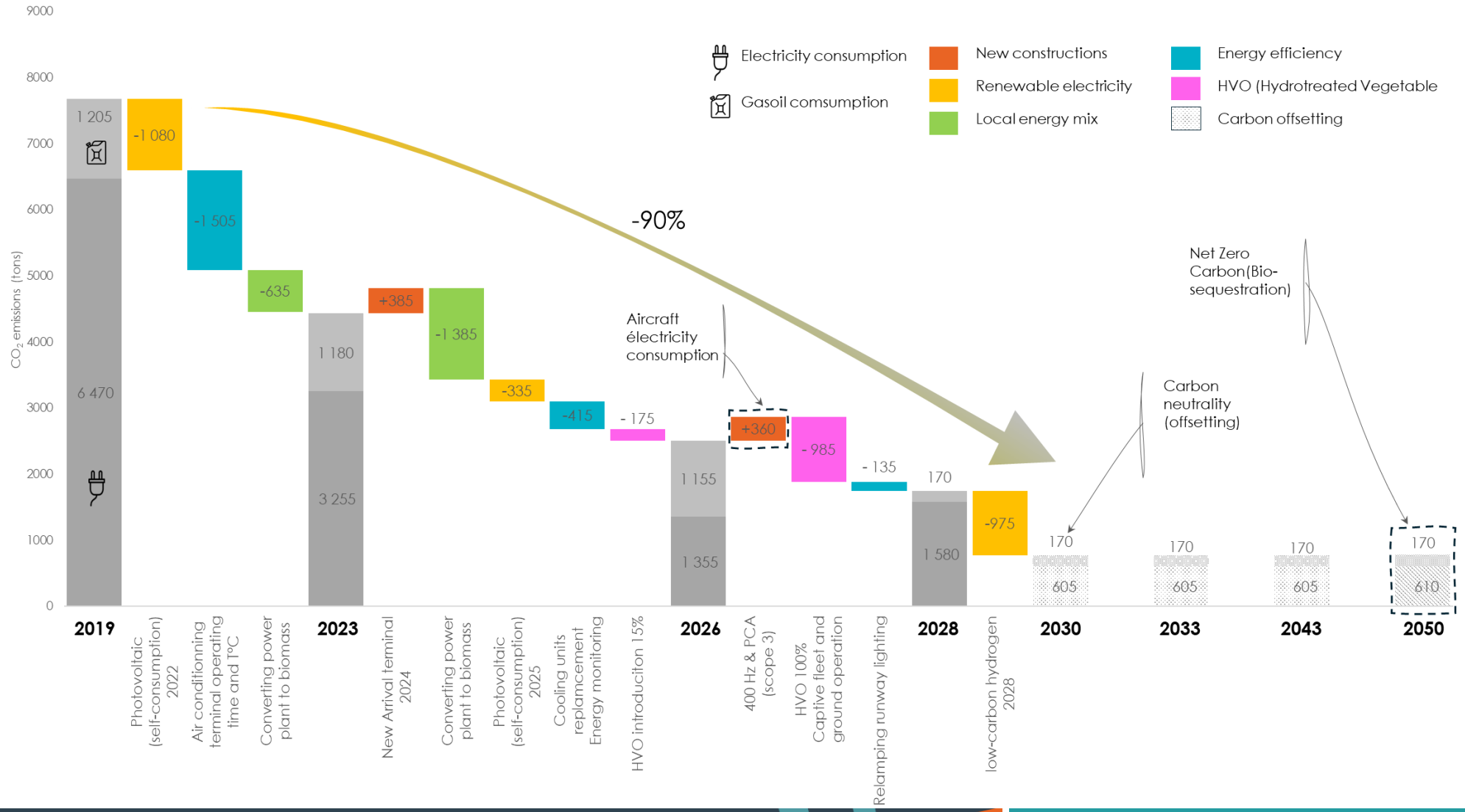
Carbon neutrality through offsetting

AÉROPORT LA RÉUNION ROLAND GARROS

3. ACTION PLAN

CONTROL OF INFLUENCABLE EMISSIONS

Roland Garros Airport Net Zero emission roadmap



SHORT TERM

DEVELOPMENT OF RENEWABLE ENERGIES

- 2 new self-consumption photovoltaic power plant (1 200 kWp)

ENERGY DEMAND MANAGEMENT

- Reduction of our energy consumption (relamping, redisign of refrigeration installations, latent storage, energy monitoring)

REDUCING THE USE OF FOSSIL ENERGY

- Introduction of HVO blended with diesel
- Electrification of the captive vehicule fleet
- Development of soft mobility (mobility plateform plan, carpooling)

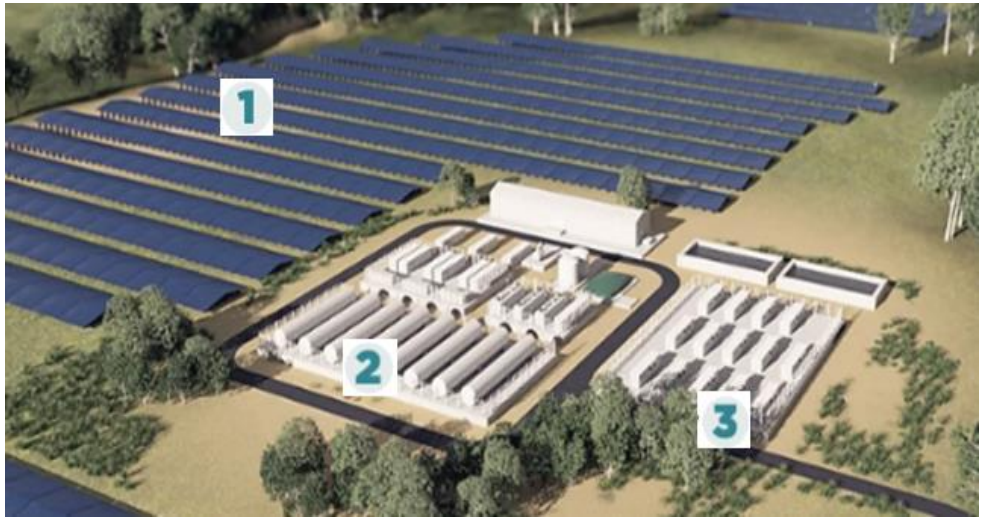
MEDIUM TERM

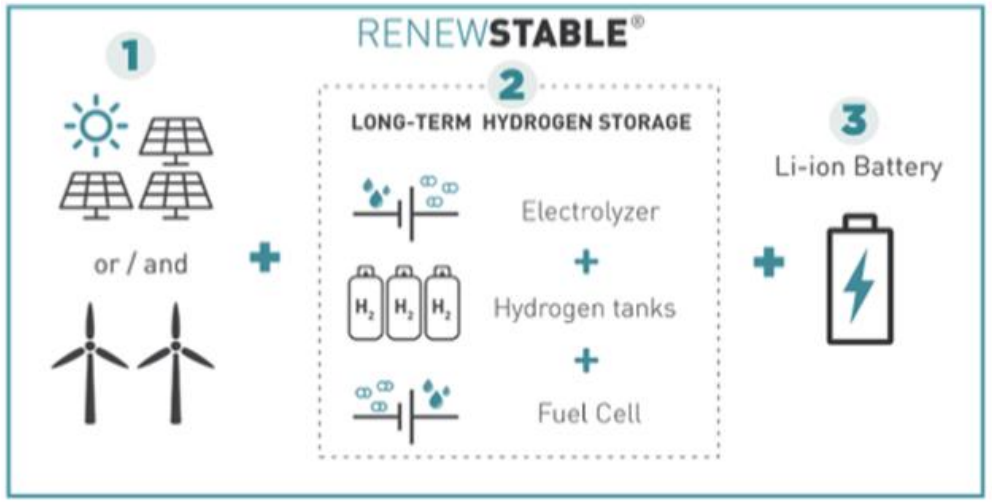
REDUCING THE USE OF FOSSIL FUELS

- Supply of electricity and air conditionning for aircrafts at the gate and on the apron, replacing the use of APUs
- Complete replacement of GNR with HVO for the use of generators and ground operations

ACHIEVING CARBON NEUTRALITY

- Creation of a primary photovoltaic energy-based hydrogen gas production plant
- Use of hydrogen for electricity production, mobility and ground operations
- Offsetting emissions to achieve carbon neutrality





Low carbon hydrogen

Electricity production plant combining photovoltaic energy with massive storage in the form of hydrogen gaz and batteries (fuel cells) to produce stable and guaranteed electricity day and night.

Project summary in a few key words

- **Non-intermittent renewable** energy plant
- **Positive energy** airport platform
- Land capacity : **20 ha**
- Need (production) : **3 MW day and evening and 1,5 MW night requirement.**

LONG TERM

INTEGRATING NEW TECHNOLOGIES

- Preparing for the conversion of aircraft to hydrogen and SAF

CAPTURE AND STORAGE

- Development of capture and storage solutions in local carbon sinks to achieve Net Zero Carbon