

ICAO SEMINAR ON GREEN AIRPORTS

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Session 5 : Energy management and less energy-consuming construction





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An
environmentally
friendly
approach for
over 12 years



Chronology of a committed strategy



2014

First French airport certified
ISO 14001 and ISO 50001



2012

Creation of the environment
and energy department



30L/PAX



2,7kWh/PAX



3,9kgCO₂/PAX

2018

Airport Carbon
Accreditation level 2



airport
carbon
accredited
TRANSFORMATION





2020

Inauguration de 2 stations photovoltaïques (1.8MWc au total)



1st French overseas airport

3rd in the Africa zone

8th in France



2021

airport carbon accredited
OPTIMISATION

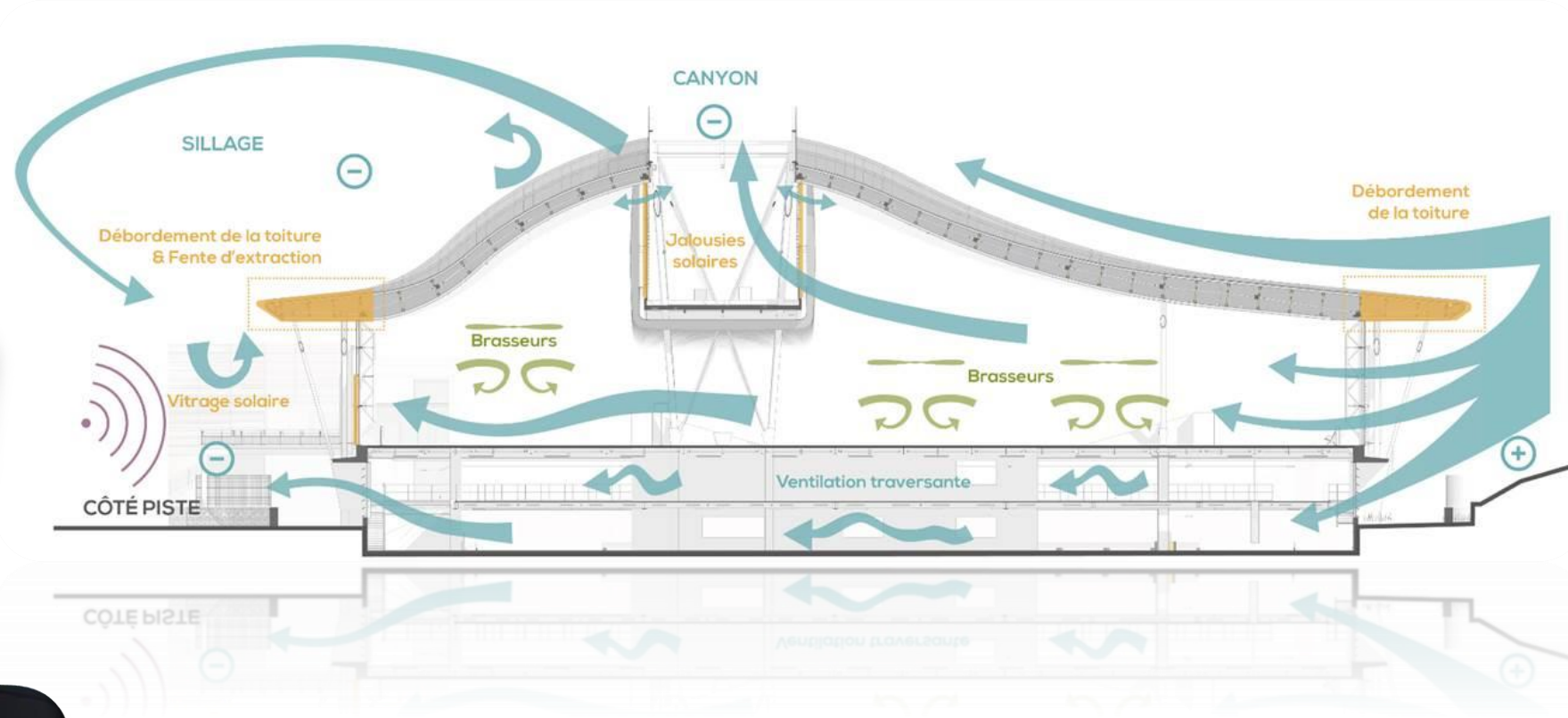
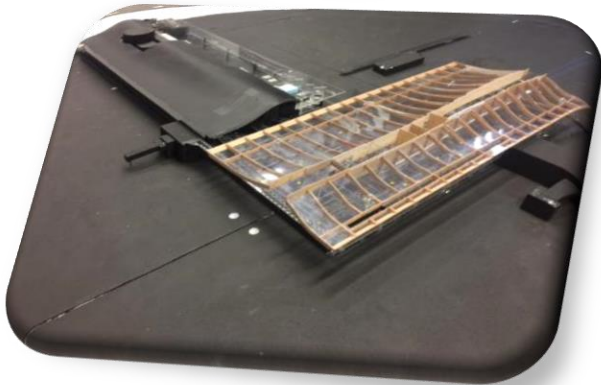
2024

Level 3

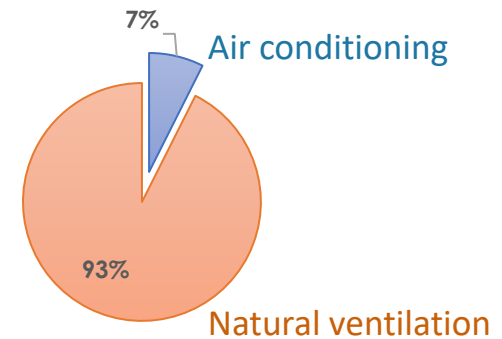
Delivery of the first bioclimatic terminal in a tropical environment in the world

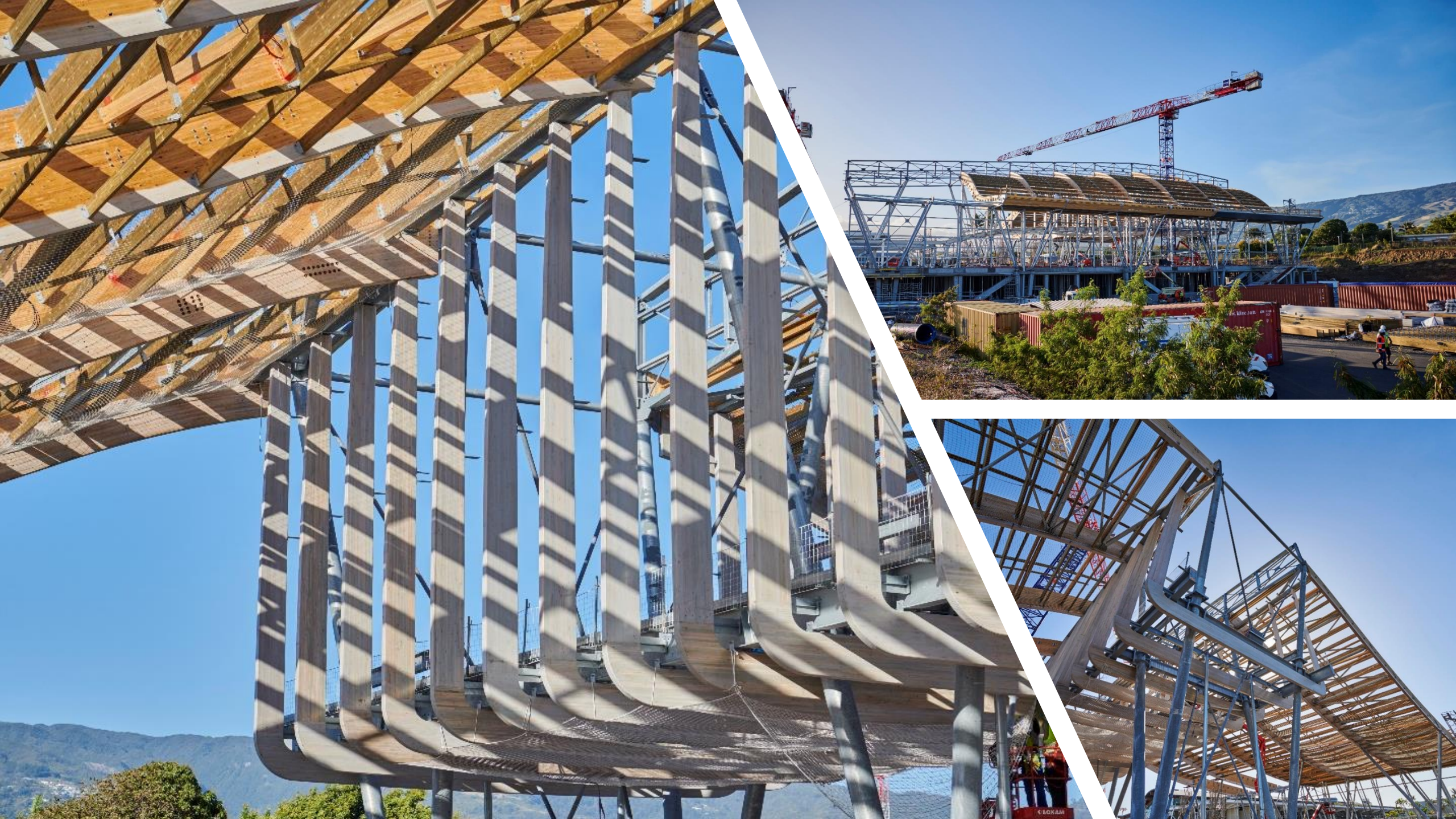


An innovative engineering inspired by ancient reconised solutions



Scientifical and technical validation by laboratory



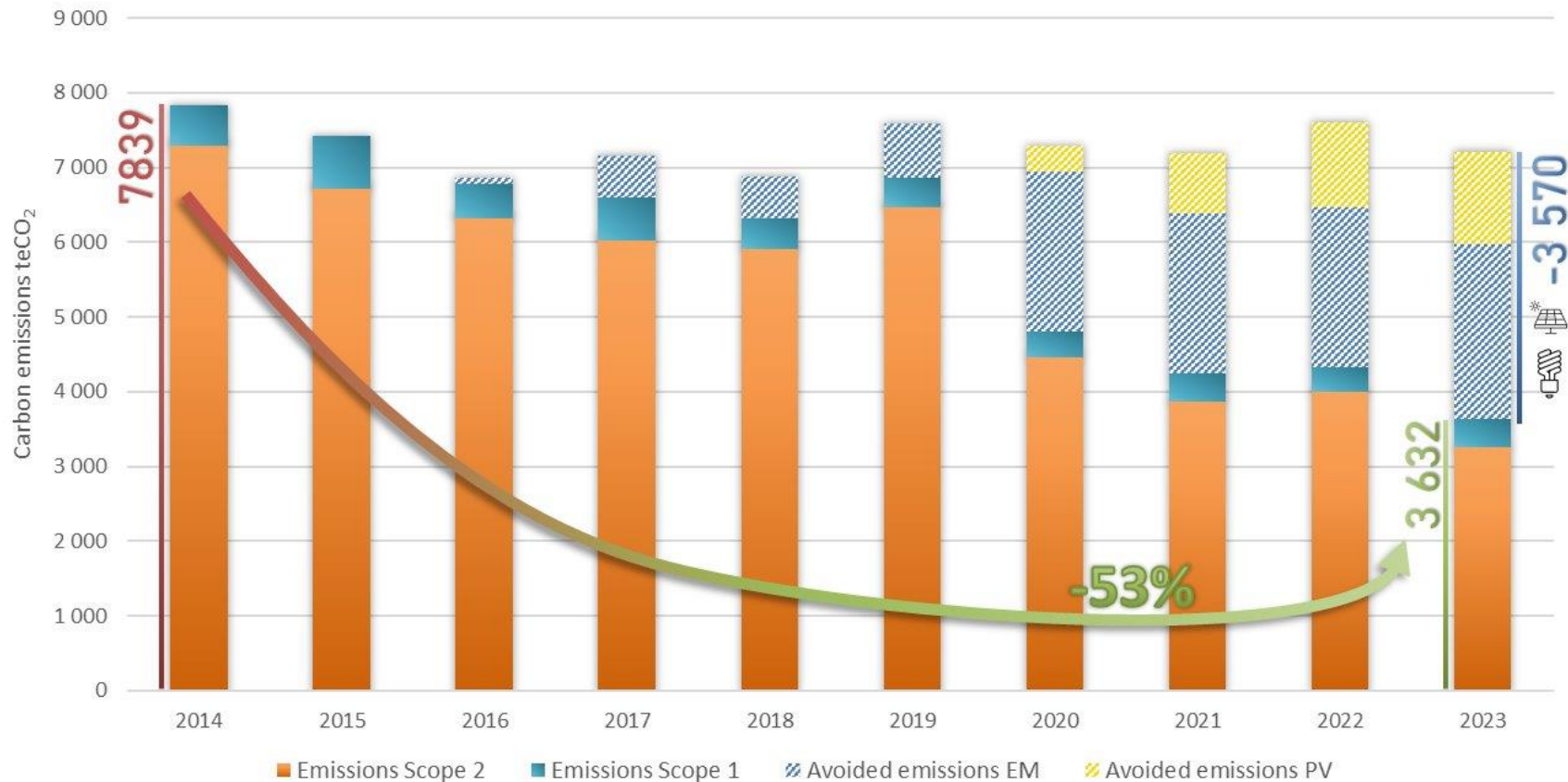


- **Capital investment : 76M€**
- **Surface: 22 000m² building**
- **Inauguration on March 15, 2024**
- **Energy performance ratio**
 - 60% compared to the actual optimized terminal
- **9000 m² of endemic plants**





How to neutralize our residual emissions ?

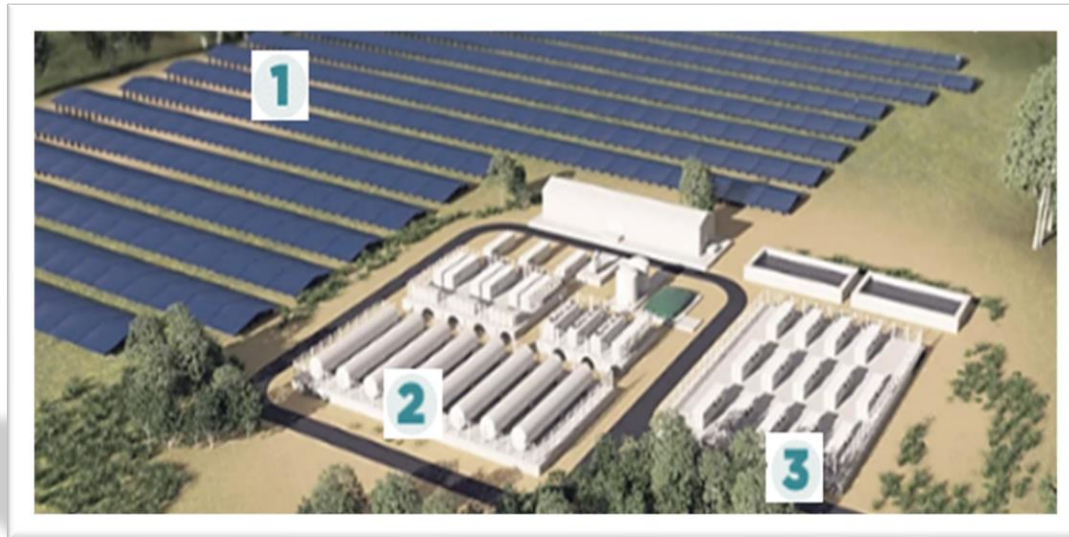


RESULTS: 53% GHG emissions reduction during the period 2014-2023 (scope 1 & 2)
 ...but still 3 632 TeqCO₂

2023 GHG EMISSIONS: 1,4 kgCO₂e/PAX (3,9 kgCO₂e/PAX in 2014)

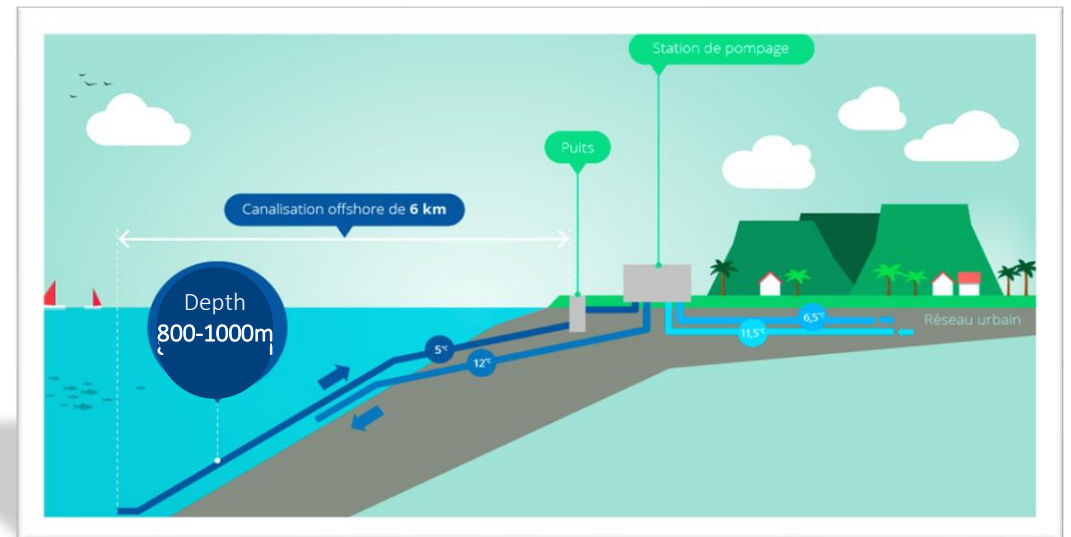
How to neutralize our residual emissions ?

Hydrogen power plant project ONGOING STUDIES



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

Sea Water Air Conditioning project ONGOING STUDIES



Recover cold water from the abyss to produce ice water for centralized air conditioning systems

Thank You

