

ICAO EUR/NAT and ACI EUROPE

REGIONAL GREEN AIRPORTS SEMINAR

**Hosted by the Ministry of Transport
Republic of Kazakhstan**



ICAO



**SUSTAINABILITY PROGRAM
AT
TIRANA INTERNATIONAL AIRPORT**

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COO & Accountable Manager**

CONTENT

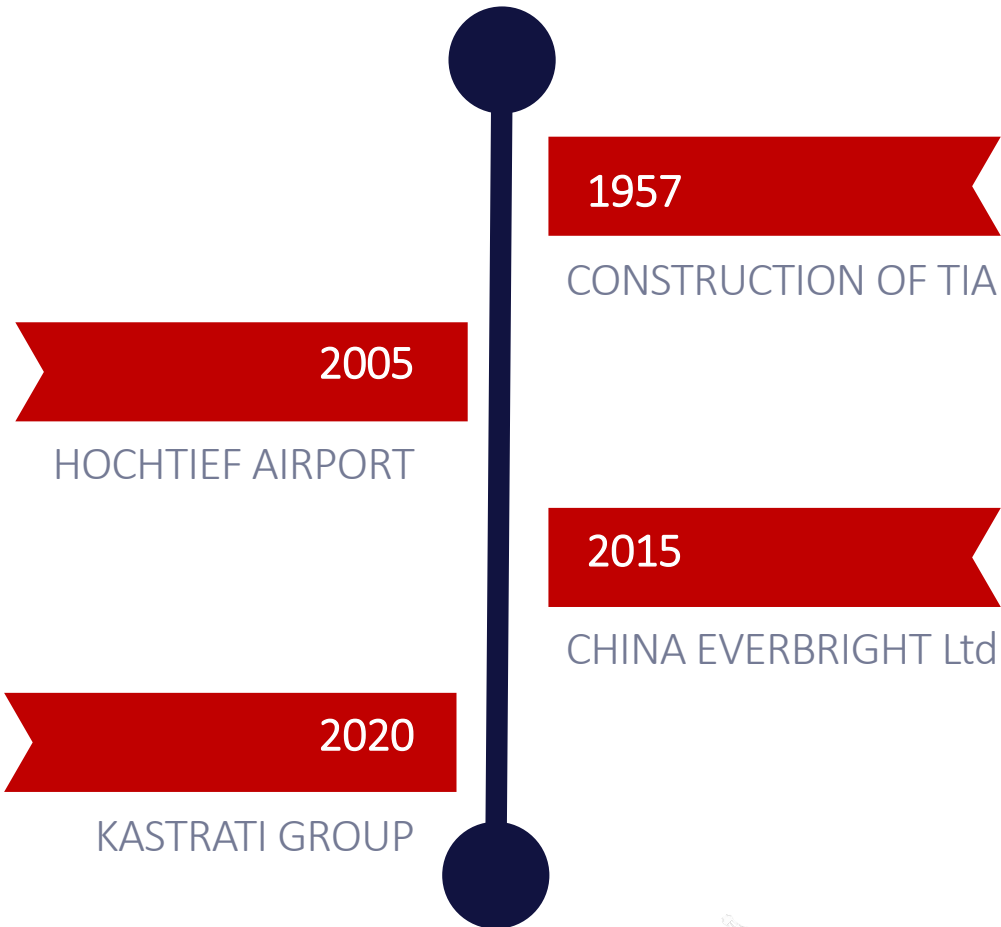
1. OVERVIEW OF TIRANA INTERNATIONAL AIRPORT
2. SUSTAINABILITY PROGRAM
3. SOLAR ENERGY
4. LED SYSTEMS
5. SAF FUEL FARM
6. CO₂ EMISSION REDUCTION
7. FUTURE PLANS

Overview of TIA



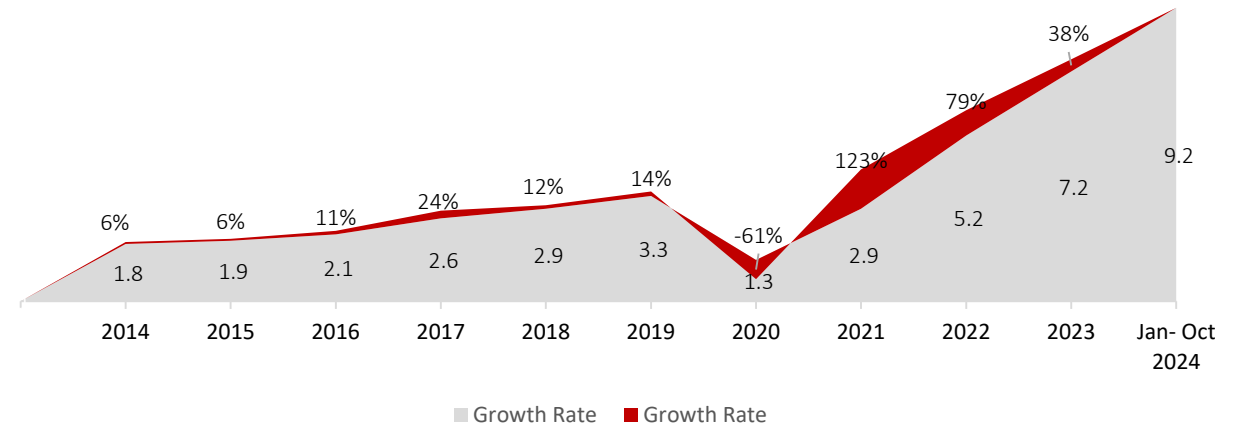
Overview of TIA

HISTORY OF THE AIRPORT



FIGURES 2014-2024 YTD

Passengers Figures 2014-YTD (Mln)



DESTINATIONS of TIA

28
Scheduled Airlines

- Wizzair
- Ryanair
- Air Albania
- Lufthansa
- Austrian Airlines
- Pegasus Airlines
- Aegean Airlines
- ITA
- LOT
- Transavia
- British Airways
- Eurowings
- Swiss Air
- Air Serbia
- SunExpress
- SkyExpress
- Fly Dubai
- easyJet
- Jetairfly
- Iberia
- Norwegian
- Air France
- Flynas
- Air Baltic
- Salam Air
- Jazeera Airways
- SAS
- Croatia Airlines

17

*Seasonal Airlines

- Air Montenegro
- Smartwings
- Ryanair Sun
- Corendon
- Enter Air
- European Air Charter
- Egypt Air
- Atlas Jet
- Flyone
- Electra Airways
- Freebird
- Heston Airlines
- Air Cairo
- Mavi Gok
- Israir
- Tailwind
- ASL



113 Destinations

Connecting Europe and Beyond

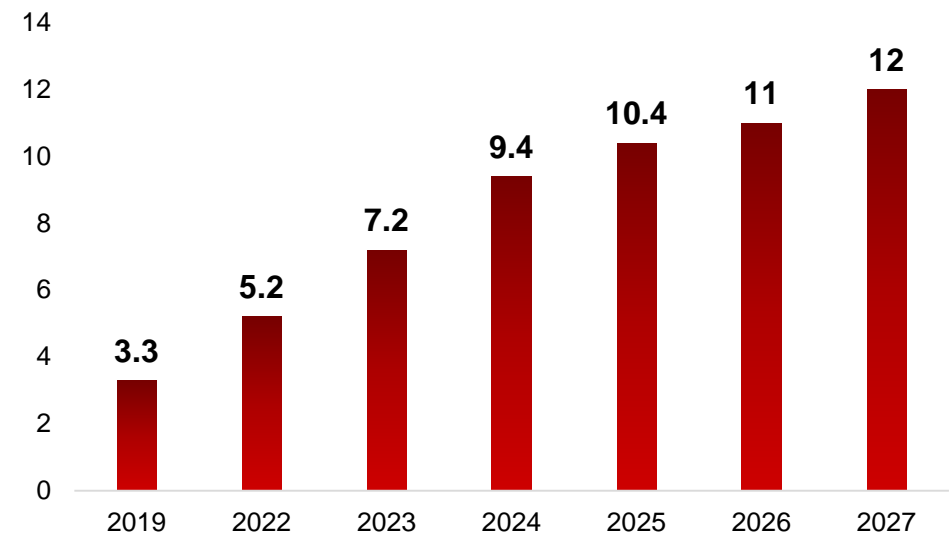
“FASTEST GROWING AIRPORT IN EUROPE”*



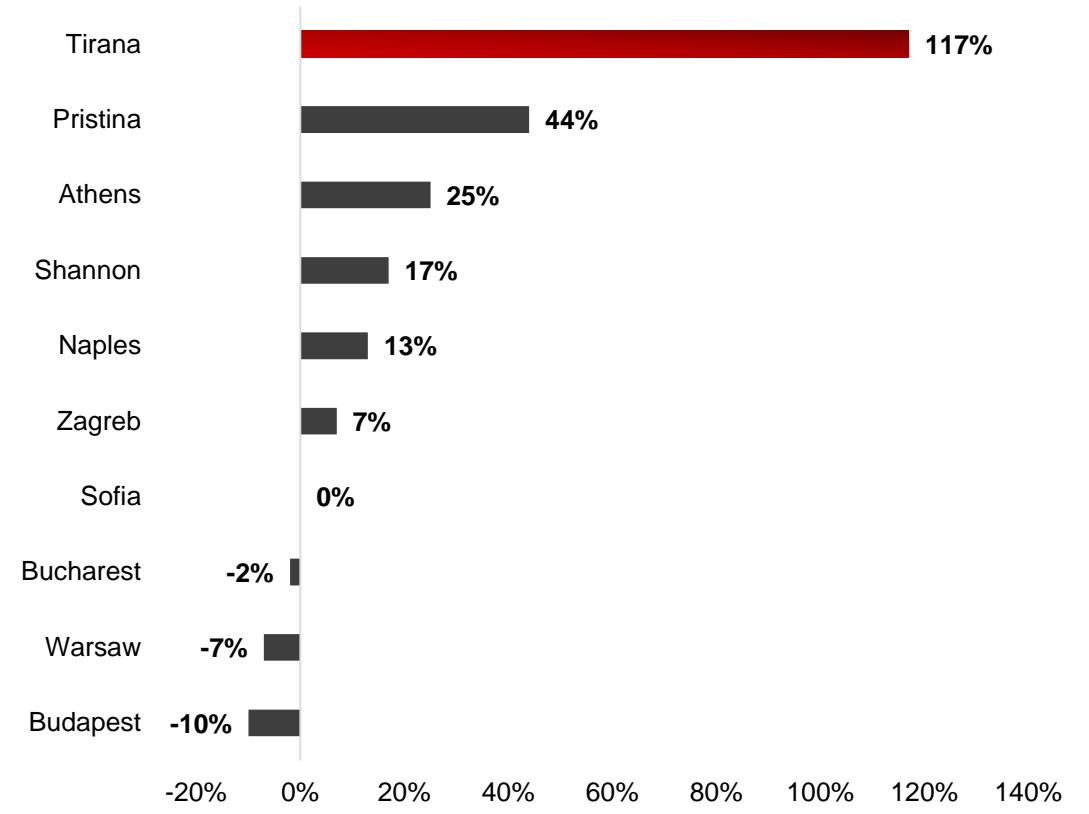
TRAFFIC FIGURES AND NETWORK ROUTES

- 2023 was another record-breaking year, with 7,2 mln passengers at TIA, a robust growth of 40% compared to 2022
- TIA is committed in achieving sustainable growth with airline partners, with one of the youngest fleet mix in Europe

TIA Historic & Forecasted Passenger Figures in Millions



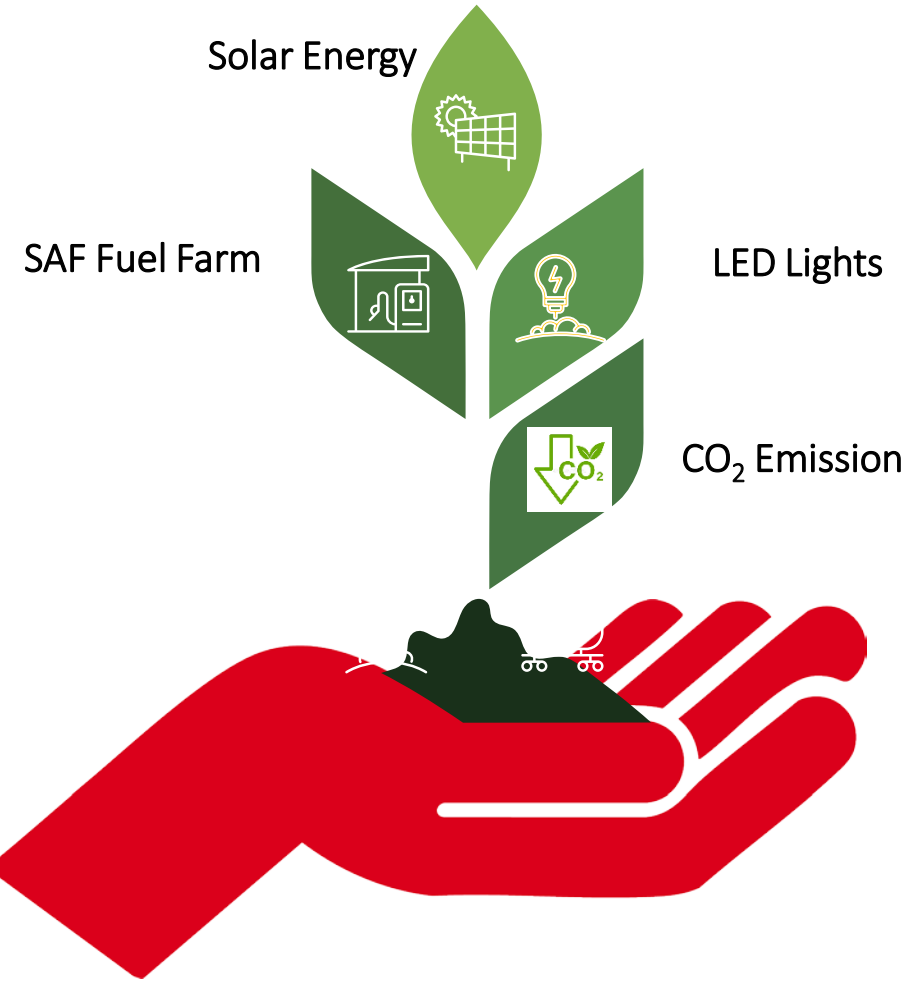
Passenger Growth 2019 vs 2023**



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*Citation from President Ursula von der Layen
 **Source: ACI World Traffic Report

TIA – SUSTAINABILITY PROGRAM



SUSTAINABILITY INFRASTRUCTURE

existing buildings

proposed buildings

sustainable aviation fuel

solar panels



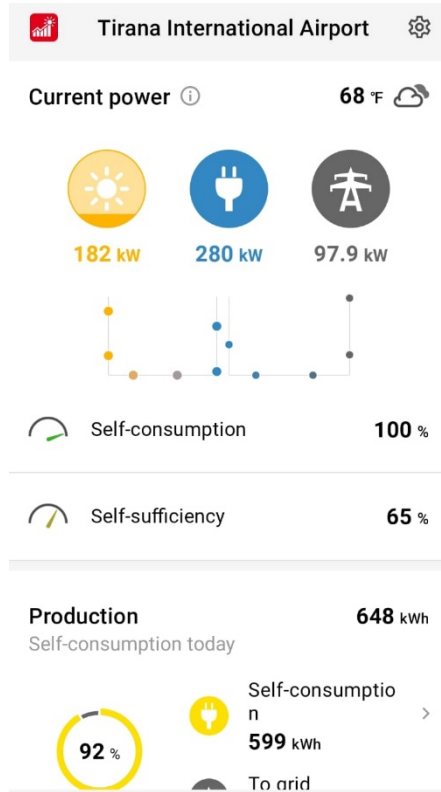
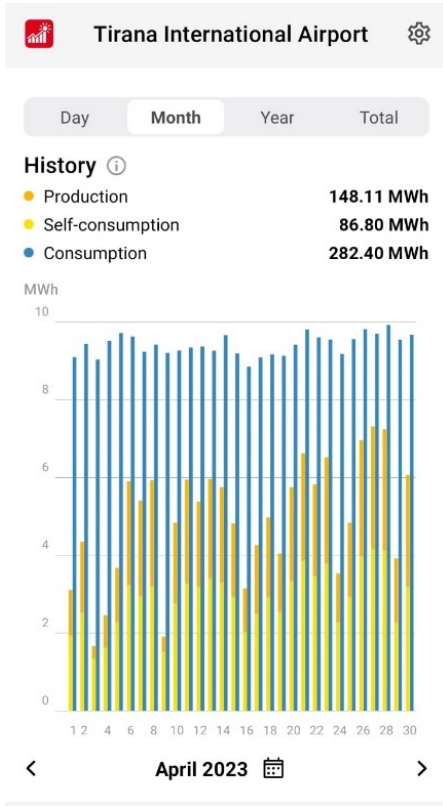
SUSTAINABILITY PROGRAM - Solar Plant Rooftop

Tirana International Airport has already put in action measures to reduce its carbon footprint and improve its sustainability goals. With **2.4 MWp** installed, TIA has one of the largest, roof-installed, solar power plant in the Europe.

Our main project is to complement this existing installation with a substantially larger ground-based solar plant on the east side of the airfield, with to expand it in phases in order to eventually achieve **50 MWp** installed.

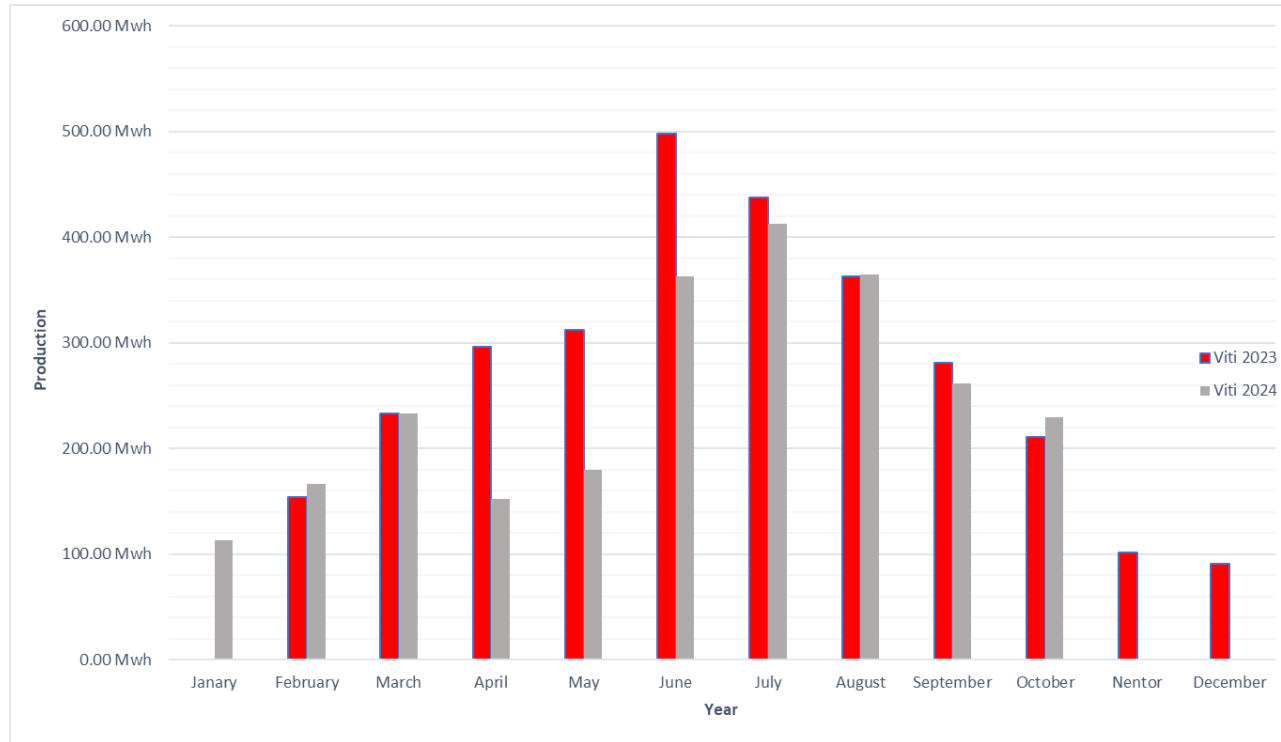


SUSTAINABILITY PROGRAM - Solar Plant Rooftop





SUSTAINABILITY PROGRAM - Solar Plant Rooftop



- Significantly reduce the airport's reliance on non-renewable energy sources
- Contribute to the reduction of greenhouse gas emissions
- Contribute to TIA's broader sustainability strategy. Notably:
 - Since inception (Feb 2023) total accrued production was 5,454.11 MWh
 - In 2024, during Feb-Oct output was reduced by 15% because of on-going terminal works



SUSTAINABILITY PROGRAM - LED Systems

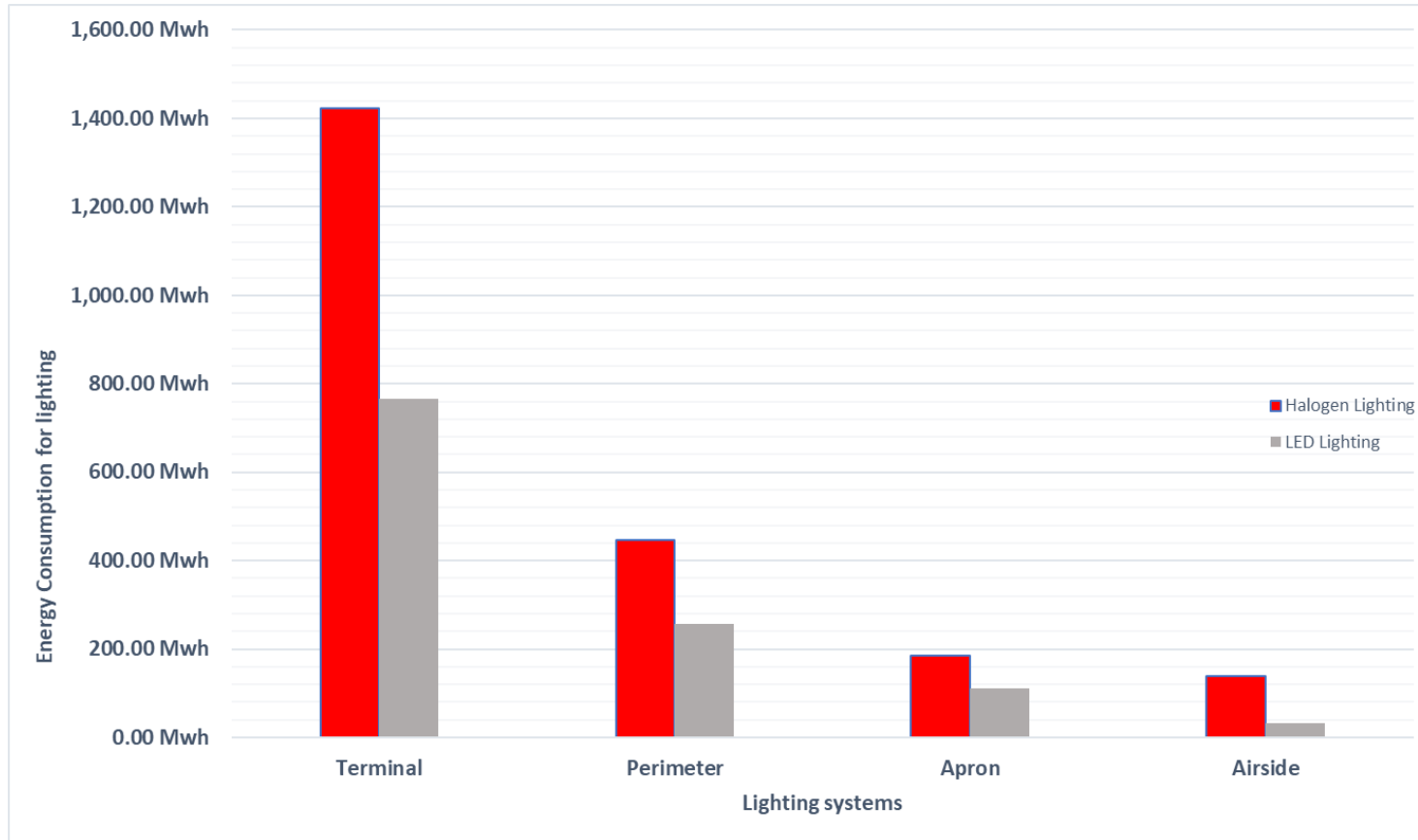
TIA has invested on the replacement of the **airfield ground lighting system** form halogen to LED.

Furthermore, as part of the scope of the airside infrastructure development, but also Terminal building and landside infrastructure, **all lighting systems** are implemented as LED.





SUSTAINABILITY PROGRAM - LED System



From the replacement of lighting systems from halogen to LED, energy consumption is down by 46.8% (or 1,026 MWH) in the last 21 months (2023-2024)



SUSTAINABILITY PROGRAM- SAF Fuel Farm

Compliant with ACI EUROPE's Sustainability Strategy,
TIA's commitment to Net Zero 2050 & European Union's Fit for 55 agenda.

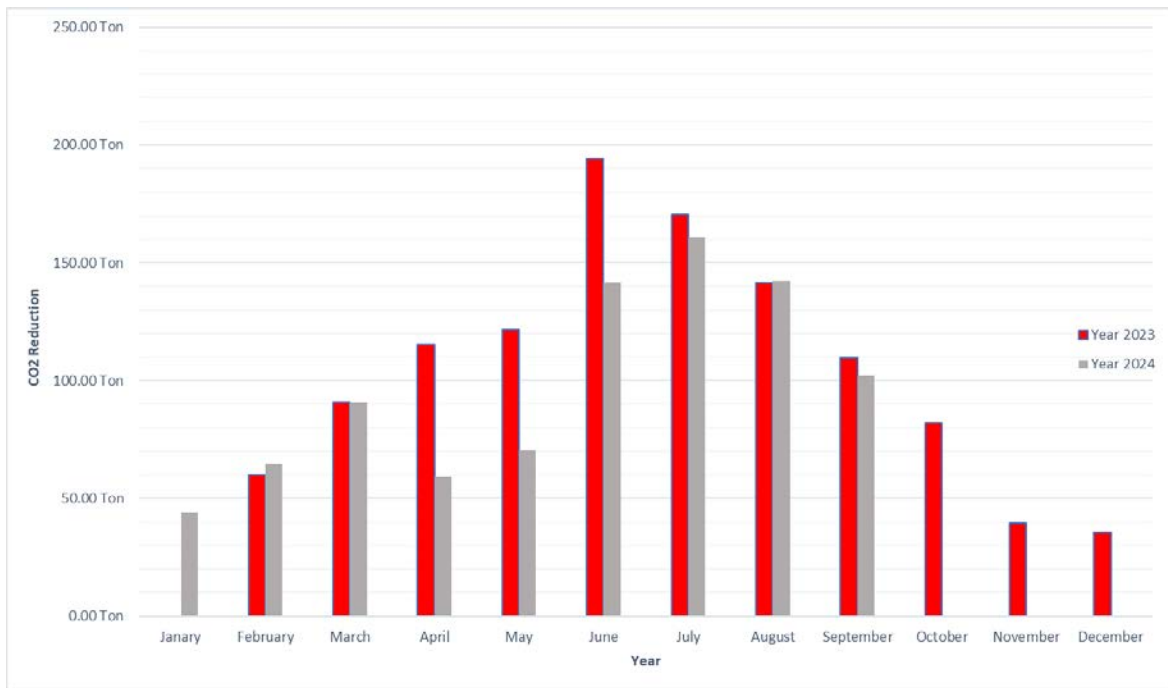
TIA has identified a new area for a SAF-fuel farm, to complement the
availability of conventional fuels with the new SAF's.

! risk is to eventually reach an uneven distribution of resources if a
SAF allowance mechanism is not devised.

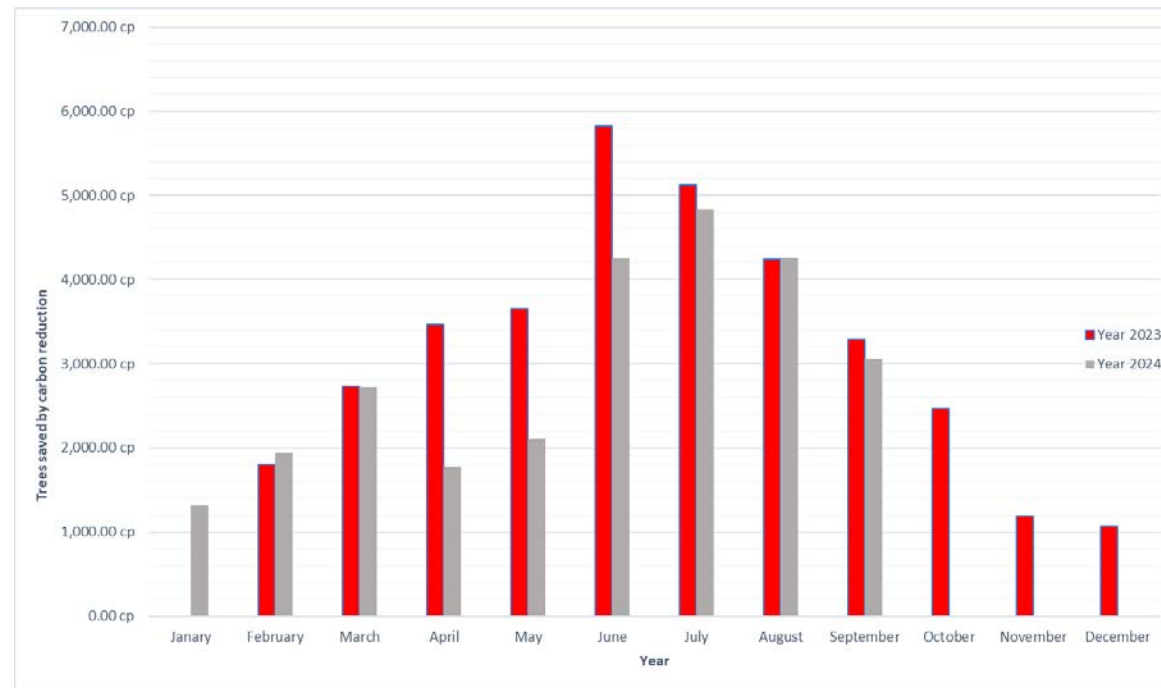




SUSTAINABILITY PROGRAM - CO₂ Emission



CO2 reduction form solar energy production

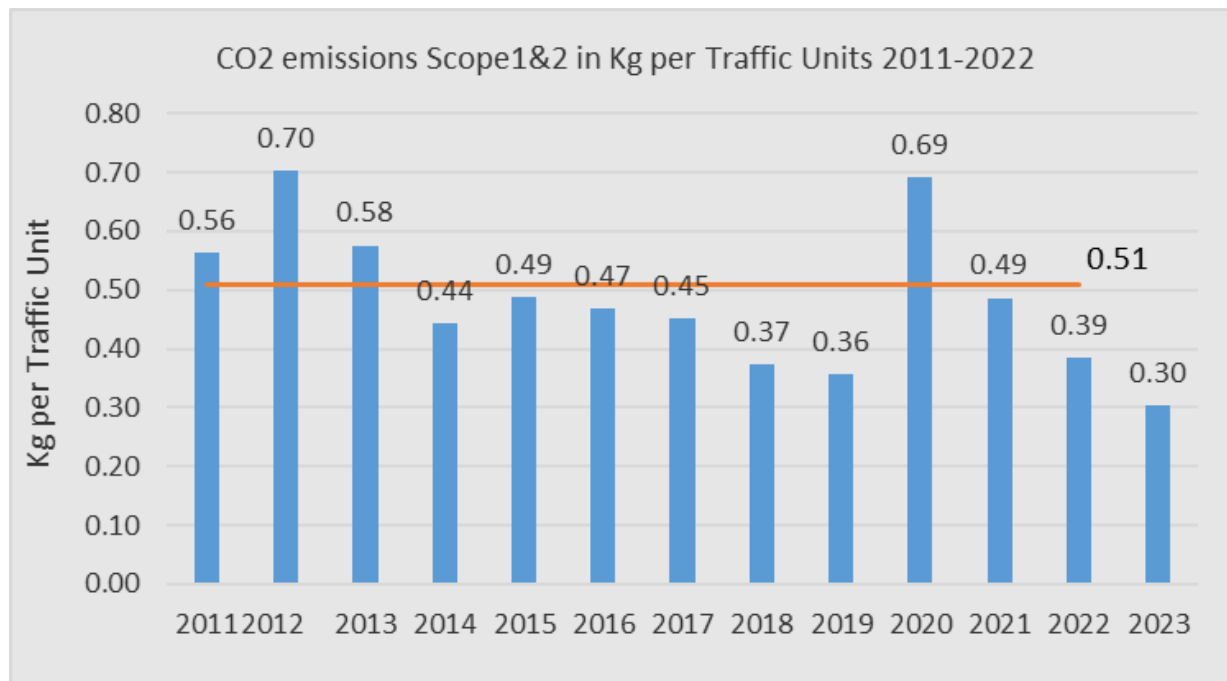


Trees saved by carbon reduction



SUSTAINABILITY PROGRAM - CO₂ Emission

- TIA has been ACI-ACA accredited Level 1 and 2 since 2011
- Currently TIA is in the process of achieving **ACA accredited Level 3**



- Emissions per traffic unit avg 0.51 kg of CO₂
- 20-40% reduction with the base year 2011



SUSTAINABILITY PROGRAM - CO₂ Emission

Adopted Measures and Activities

- Reducing the consumption of conventional fuels
- Reduction of energy consumption
- Reduction of electricity for lighting
- Design of new buildings in category A & B of energy performance
- Energy control identification program by consumption units
- Waste minimization program and separation at source
- Production of renewable energy
- Procurement of products with high efficiency class
- Energy assessments & staff instruction and training



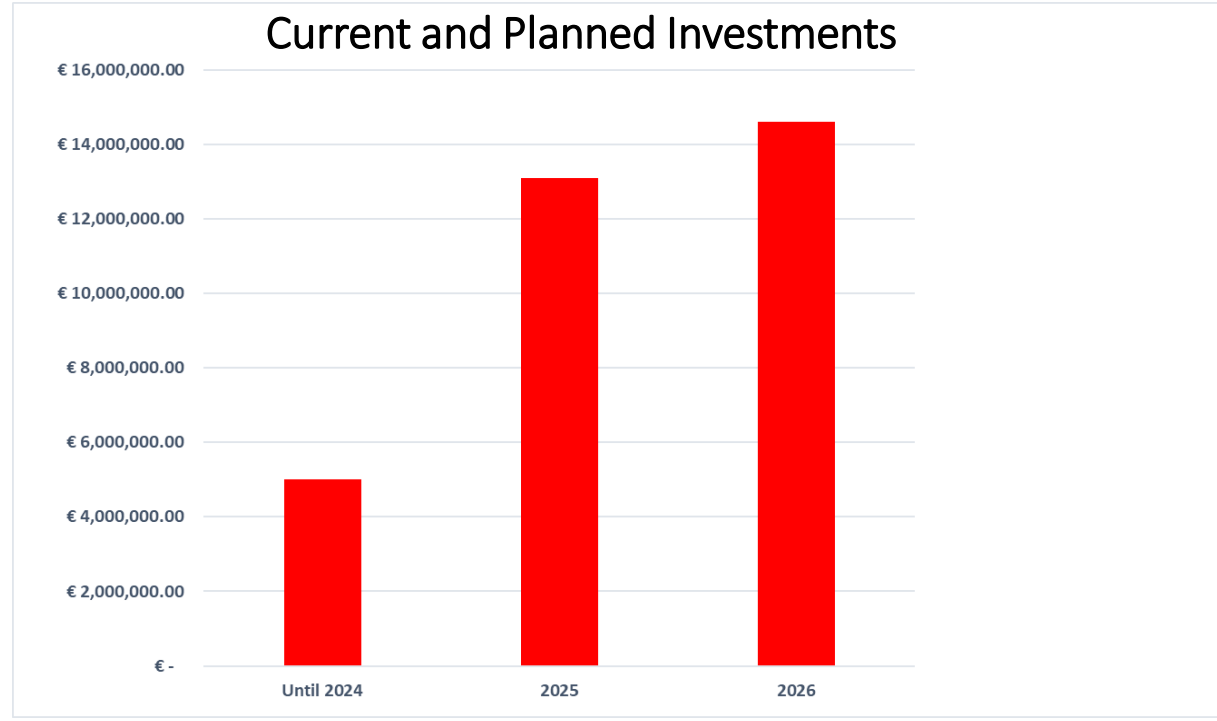
**For a Green Future
Change happens,
when we all act**

Planting trees and volunteering at local tree-planting events are great ways to help the environment





SUSTAINABILITY PROGRAM – Future plans



- Solar power plant with capacity up to 50 MWp
- Sustainable Aviation Fuel Farm
- eGSE fleet and charging points
- LED Lighting Systems



TIRANA
INTERNATIONAL
AIRPORT
Nënë Tereza

**THANK YOU FOR YOUR
ATTENTION**