Ostend-Bruges
FLANDERS INTERNATIONAL AIRPORT

ACI Net Zero Roadmap

Scope 1+2

June 2024

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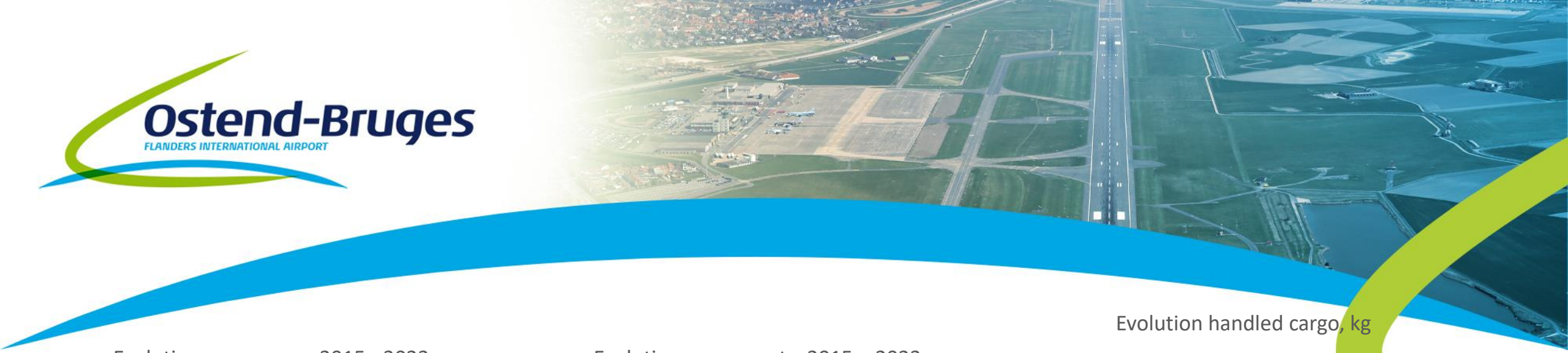
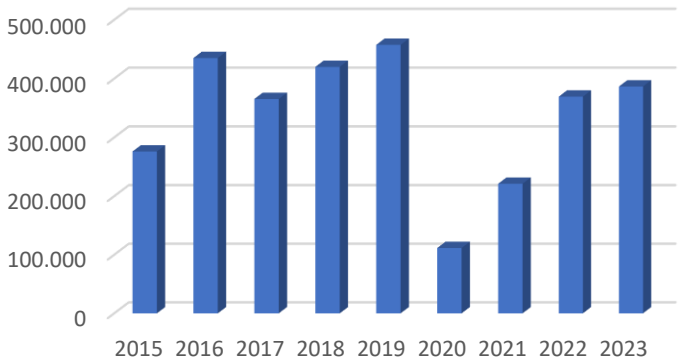
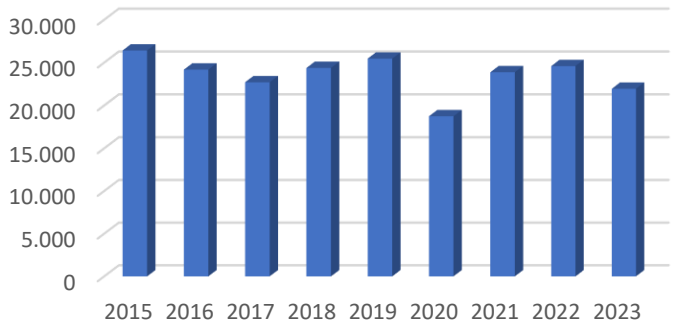
Ostend-Bruges
FLANDERS INTERNATIONAL AIRPORT



Evolution passengers: 2015 - 2023



Evolution movements: 2015 – 2023



Evolution handled cargo, kg

Ostend-Bruges Airport

- Regional airport with 3.200 m runway
- Part of the international group EGIS
- Focus areas: scheduled services & cargo flights

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egis AIRPORTS' NETWORK

MILESTONES

- OST Environmental Policy (ISO 14001 since 2013) (carbon reduction March 2018))
- ACI Net Zero 2050 commitment 2019
- ACA level 1 April 2021
- Carbon Reduction Targets 2021 (EGIS: 2030 -30% (baseyear 2019))
- Carbon management plan (March 2023 - update June 2024)
- ACA level 2 April 2024
- Carbon Net Zero Roadmap (Scope 1+2) June 2024
- To do: Stakeholder Engagement Plan December 2024
- To do: Certification process ACA level 3 April 2025

CERTIFICATE
of ACCREDITATION

airport carbon accredited
MAPPING

Valid until the 26th April 2023

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

OSTEND-BRUGES INTERNATIONAL AIRPORT

implemented by Egis Group

Ostend-Bruges
FLANDERS INTERNATIONAL AIRPORT

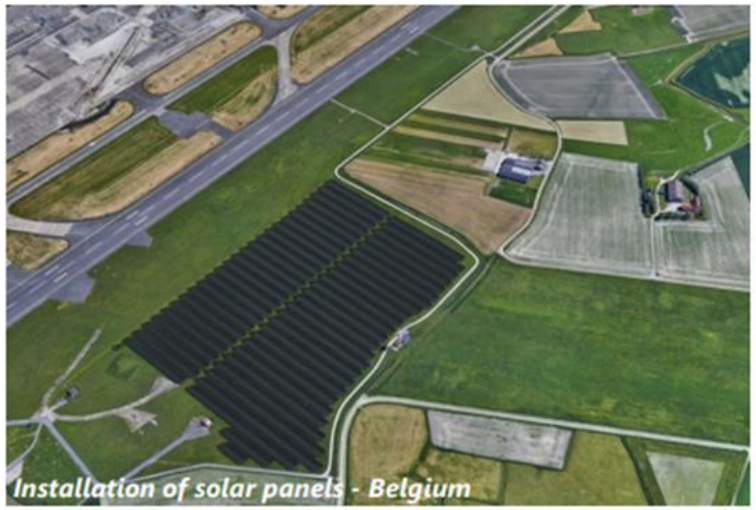
have earned the accreditation level of **MAPPING**, in recognition of the airport's actions to address its CO_2 emissions, as part of the Global airport industry's response to the challenge of Climate Change.

airport carbon accreditation
www.airportCO2.org

Olivier Jankovec
Director General
ACI EUROPE

Simon Clouston
Director
WSP

1 CLIMATE CHANGE


Installation of solar panels - Belgium

ADAPTATION

- Make a climate risk assessment to identify the effect of climate change on the airport
- **Establish a Climate Adaptation Plan**

MITIGATION

- **Measure yearly scope 1-2-3 GHG emissions** to obtains the ACA certification level 3+ in 2028 at the latest
- **Implement actions to reduce these emissions,** to participate in the overall goal of reducing by 5% each year EGIS' carbon emissions up to 2030 (base year 2023):
  - Be certified ISO 14 001 and ISO 50 001
  - Perform an energy audit
  - Always replace equipment by the most energy efficient solutions available (such as LED)
  - Switch to e-vehicles and install EV charging stations on both airside and landside area
  - Offer alternative options to the use of APUs
  - Perform a feasibility study for the installation of solar panels

Associated Indicators

- *tCO2e*
- *kWh consumed/purchased*
- *Number of E-vehicles*
- *%LED lights*
- *kWp of PV installed*
- *% of stand equipped with 400Hz systems*
- *% of actions from Climate Adaptation Plan implemented*

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Carbon Management Plan: themes

Environmental calender – targets (ACA certification + reduction targets OST, EGIS, ACI)
Monitor the efficiency of heating, ventilation, and cooling systems
Green mobility – E-vehicles – bike friendly airport
Awareness - Zero idling – energy-reporting
Green procurement
Water and Waste management
Fuel efficiency
Airside infrastructure
Renewable energy – solar panels
Building - isolation (roof, wall, windows) - lighting

Long term – short term CO_2 targets

	baseyear		amount CO2 baseyear	target	GOAL ton CO2	timing
EGIS	2019	location based	1187	min 30%	831	2030
EGIS	2019	market based	1076	min 30%	753	2030
EGIS Strategy map	2023	location based	773,5	min 5% every year		2030
EGIS Strategy map	2023	market based	841,5	min 5% every year		2030
Net zero 2050				min 100%		2050
Environmental permit (under construction)	2019	location based	1187	min 90%?	119	2034
Environmental permit (under construction)	2019	market based	1076	min 90%?	108	2034

Carbon emissions: baseyr 2019 – ACA application yr 2023

Carbon Emissions Figures

Please enter your scope 1 and 2 carbon emissions, where year 0 corresponds to the carbon emissions for the year of application.

Location based

Year -3	Year -2	Year -1	Average of historic data	Year of application (Year 0)	Less than average?
Absolute footprint (tCO_2) for emissions under the airport's Scope 1 and 2 emissions only.					
1187	993	850	1010	774	Yes

Market based

Year -3	Year -2	Year -1	Average of historic data	Year of application (Year 0)	Less than average?
Absolute footprint (tCO_2) for emissions under the airport's Scope 1 and 2 emissions only.					
1076	1060	916	1017	842	Yes

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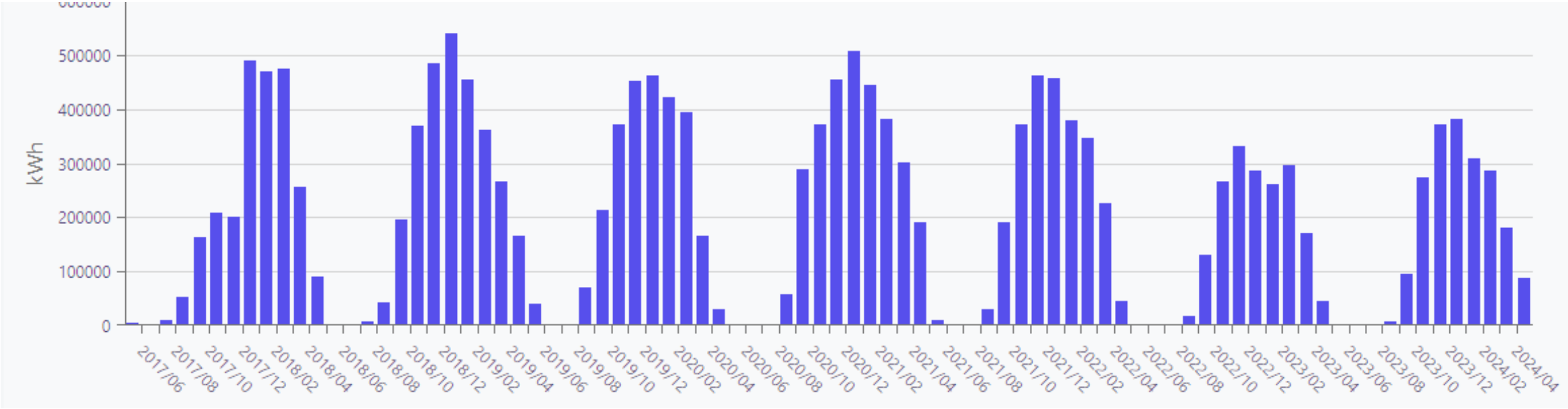
Ostend-Bruges

Realisations

New gas condensation heat boilers (08/2022)

- Min 128 ton CO_2
- Min 20% gas
- Min 45% electricity for HVAC



Gas condensation heat boilers (08/2022)

- Reduction 128 ton CO_2
- Reduction consumption 20% gas
- Reduction min 45% electricity HVAC partim

Waste and watermanagement

- Dopper bottle for each employee (2021)
- Free water – water dispensers (2021-2023)
- Awareness

Green Mobility – Green Purchase- EV Charging Plan

Airside infrastructure -Runway renovation (25 January-29 March 2024)

Runway renovation – 100% LED – power efficient regulators

Solar park Energy Vision (2024-2026)

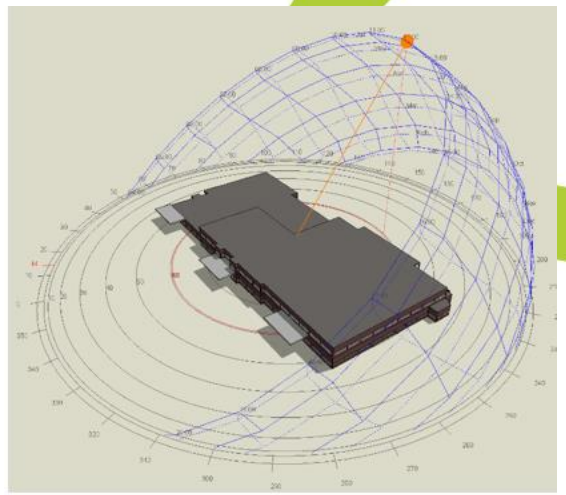
- Number of solar panels: 66,200 of 605 Wp
- Capacity: 40,05 MWp
- Annual output : 37.000 MWh
- Expected yearly CO2 savings: 9.600 ton
- Surface: 303.864 m²
- Energy Community: www.stroomvantzeetje.be

Energy renovation towerbuilding

- Asbest removal
- Isolation walls
- New windows
- 2023-2025

ROAD TO LEVEL3

- Carbon management plan: actions, initiatives, projects concerning:
  - Submetering electricity/gas (2024)
  - Renewal chiller pax building (2025)
  - Replacement Aerofresh cooling (2025)
  - Building automation and monitoring system (HVAC) (2025)
  - Electricity contract : 100% green energy (renewable) (2026)
- Carbon Net Zero Roadmap
- Stakeholder Engagement Plan December 2024
- ACA level 3 certification april 2025



ROAD TO CARBON NET ZERO (1)

- Carbon management plan: actions, initiatives, projects concerning:
  - Submetering electricity/gas (2024)
  - Renewal chiller pax building (2025) + AC: 102 t CO_2 decrease (study 2019)
  - Replacement Aerofresh cooling (2025): amount t CO_2 decrease under assessment
  - Building automation and monitoring system (HVAC) (2025): 33 t CO_2 decrease (energy study EMAZE 2019)
  - Energy study (EGIS – 2024)

ROAD TO CARBON NET ZERO (2)

- Carbon management plan: actions, initiatives, projects concerning:
  - Electricity contract : 100% green energy (renewable) (2026):
    - EF residual mix: 149,8 g CO_2/kWh ➔ 100% renewable electricity: EF 15 g CO_2 /kWh ➔ from 382 ton CO_2 to 38 ton CO_2 (90% reduction)
  - Fuel vehicles:
    - Gasoline/diesel to electricity (100% renewable energy)
    - Heavy vehicles (100% HVO100 - 90% reduction CO_2)

Contacts

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