

ICAO EUR/NAT Environment Task Force

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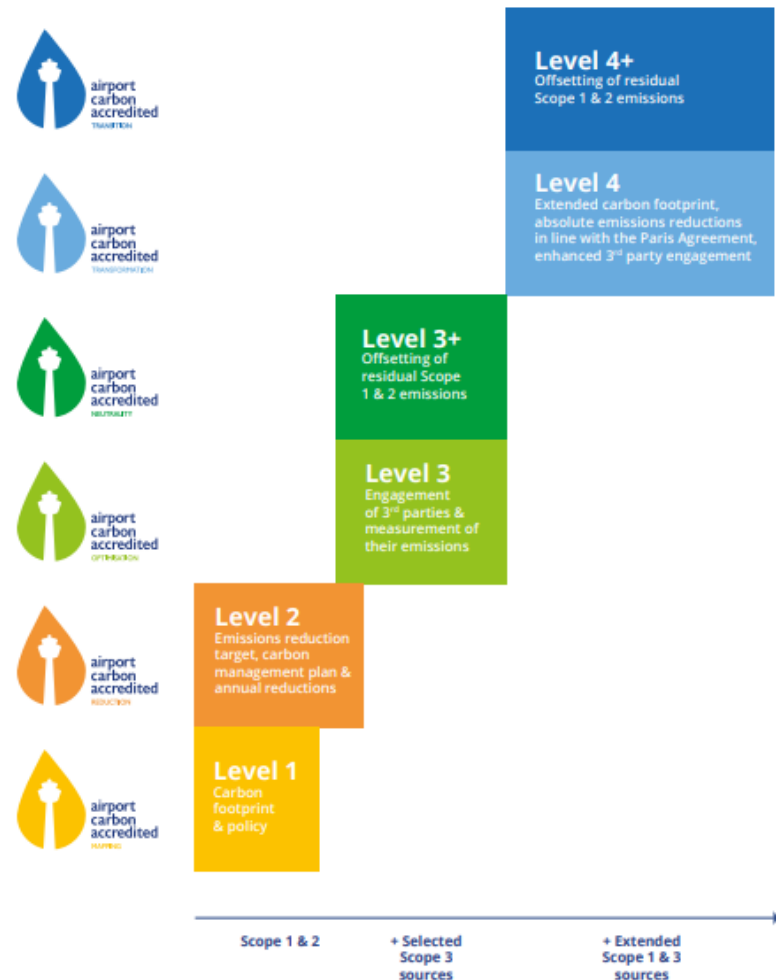
Director of Sustainability – ACI EUROPE

21 March 2023



→ Delivering Airport Climate Action

- Airport Carbon Accreditation – The standard for carbon management



→ Airport Carbon Accreditation - Europe

63 airports mapped
their carbon footprints

64 airports actively
reduced their CO₂
emissions

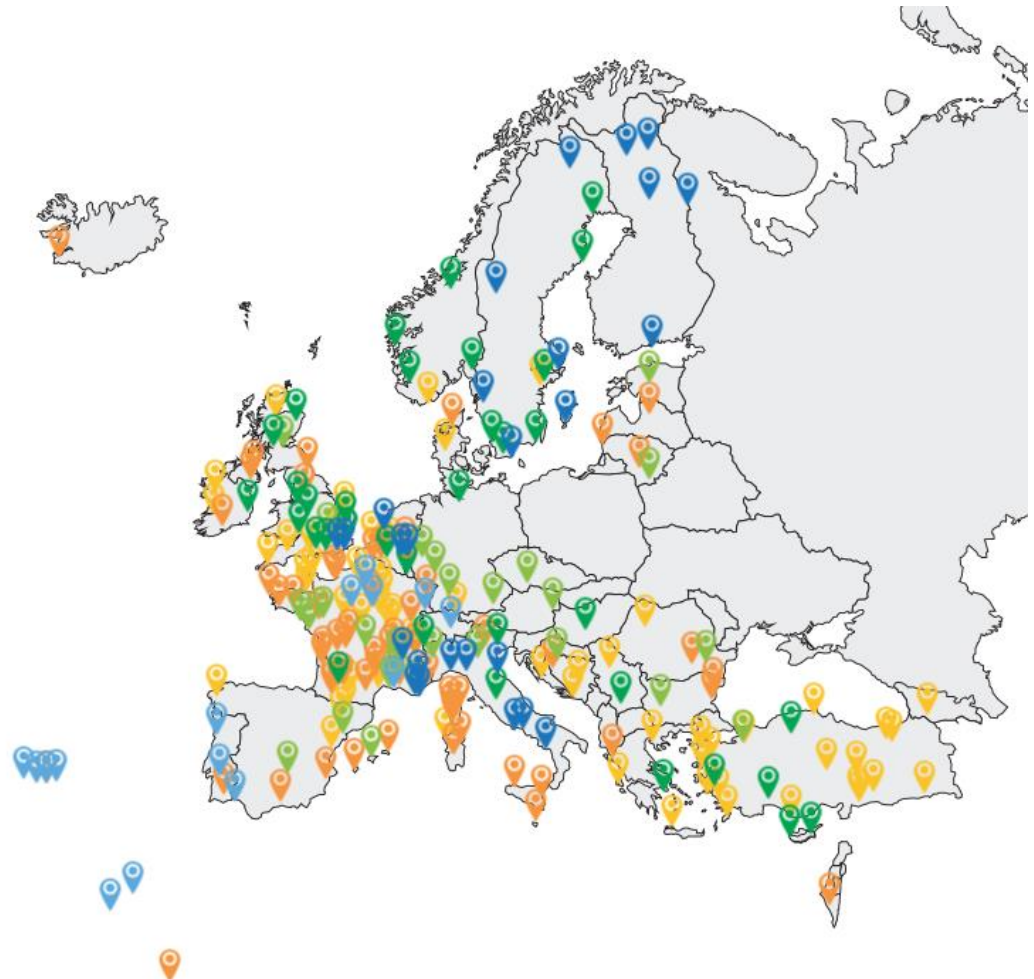
27 airports reduced
their CO₂ emissions &
engaged others to do so

35 carbon neutral
airports

15 airport aligned their
CO₂ management with
global climate goals

26 airports achieved
Transformation and further
compensated for residual
emissions

73.7%
of air passenger traffic



→ Achievements 2021-2022

Speak volumes

+30%

Growth of accreditations since the previous period.

-549,643 (-8.1%)

Aggregate scope 1 and 2 absolute emissions reductions from airports at all levels (in tonnes of CO₂ and %).

-0.15 (-8,1%)

Scope 1 and 2 relative emissions reductions per passenger from airports at all levels (in kgs of CO₂ and %).

898,821 tonnes

CO_{2e} compensated with high quality offsets

Coming up...

Level 5 – NET ZERO

- Certifying “**Net Zero Carbon Balance**” on Scopes 1 & 2 (2010 baseline)
- **Full Scope 3 calculation**
- Roadmap for Net Zero on **Scope 3**



→ Progress towards Net Zero 2050



NET ZERO

Net Zero 2050 Commitment

274 airports
undersigned the Net
Zero Pledge

132 of them defined
2030 or earlier target
date for Net Zero

In **37** countries
across Europe

That's **75,5%** of
Europe's passenger
traffic

Welcoming **1,8**
billions passengers
a year

10 airports reached
Net Zero carbon
emissions for their
operations



ACI EUROPE RESOLUTION

Adopted by the ACI EUROPE Board on 16 May 2019
Published at the 29th Annual Congress & General Assembly on 26 June 2019
Last updated at the 32nd Annual Congress & General Assembly on 23 June 2022

EUROPEAN AIRPORTS COMMITTING TO NET ZERO CARBON EMISSIONS BY 2050



NET ZERO

The ACI EUROPE Board, acting on behalf of the European airport community represented by ACI EUROPE:

Noting and supporting the objectives set by the Paris Agreement's central aim to strengthen the global response to the threat of climate change by keeping global temperature rise this century below 2 degrees Celsius above pre-industrial levels and to pursue efforts to limit the temperature increase even further to 1.5 degrees Celsius;

Recalling:

- The June 2008 commitment of ACI EUROPE and its members to reduce carbon emissions from airport operations fully within their own control with the ultimate target to become carbon neutral;
- The launch in June 2009 of *Airport Carbon Accreditation* as the tool & standard for carbon management at airports, which has resulted in 209^{*} European airports being certified under the programme to date – of which 57^{*} airports are certified as carbon neutral;
- The December 2015 commitment of ACI EUROPE and its members to 100 carbon neutral airports in Europe by 2030 under *Airport Carbon Accreditation*;

Noting the undisputable scientific evidence that has emerged in relation to climate change, notably as per the Special Report on Global Warming released by the UN IPCC (Intergovernmental Panel on Climate Change) on 8 October 2018 and further comprehensive Assessment Reports about the state of scientific, technical and socio-economic knowledge on climate change;

Noting the above mentioned UN IPCC Special Report's finding that limiting global warming to 1.5 degrees Celsius is indispensable to limit the most catastrophic and irreversible consequences of global warming – and the consequential need for "urgent and drastic action to limit global warming in line with the Paris Agreement", through "unprecedented & deep emissions reductions in all sectors" which require "rapid and far-reaching transitions in land,

^{*} As of 23 June 2022

^{*} As of 23 June 2022



→ Net Zero CO2 Commitment

- **ACI EUROPE Guidance on Net Zero Roadmaps**
- **Roadmap Repository** (*online access to individual roadmaps on ACI EUROPE website*)
- **Pushing the boundaries**

Mumbai Airport Now Runs 100% On Green Energy

The airport joins Delhi and Kochi in relying completely on sustainable energy sources.

BY GAURAV JOSHI PUBLISHED 6 DAYS AGO

New Kōwhai Park at Christchurch Airport to generate renewable energy

2:15 pm on 1 December 2021

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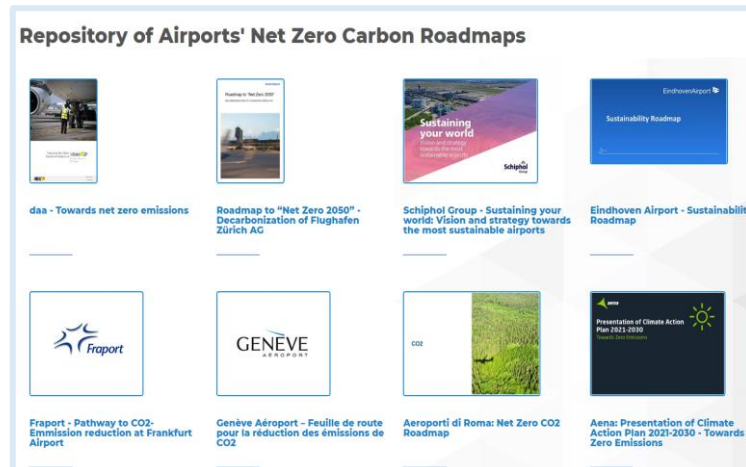
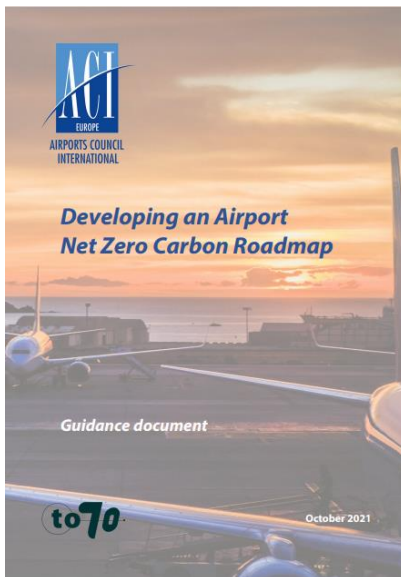
SAF For LaGuardia Airport To Be Delivered Through The Colonial Pipeline

A first forest carbon sink at Lyon Airport



Natural ventilation for La Réunion Roland-Garros Airport

MAJOR STRUCTURES - HEALTH & COMFORT - ENERGY & ENVIRONMENT - AERODYNAMICS - FIRE SAFETY - INDOOR AIR QUALITY



Key elements of airport roadmaps to Net Zero Carbon

- **Target definition:** Reference year, Net Zero Target Year and Interim targets
- Set targets **to reduce their Scope 1 and Scope 2** CO2 emissions in absolute terms.
- Furthermore, some airports **quantify targets for carbon removal**, complementing the absolute reduction target.
- **Scope 3 CO2 emissions** - Some airports also influence and guide their industry partners and passengers to reduce their own Scope 1 and Scope 2 emissions



Decarbonisation measures



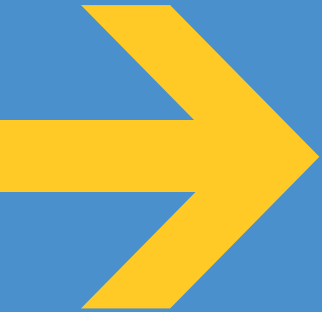
Source: ACI World Long Term Carbon Goal Study



→ Focus areas for decarbonisation (examples)

- **Munich Airport**
 - Increase and diversify generation of **renewable energy** and enable its **storage**
 - Establish a **suitable electric infrastructure for e-mobility**
 - Establish **smart power management systems**
 - Further increase **efficiency of all buildings and technical facilities**
- **Salzburg Airport**
 - Optimise and self-generate **electric power**
 - Renew the **equipment and vehicle fleet**
 - Improve the energy performance of **buildings**
 - Develop **building services** for optimisation of energy-efficiency
- **Avinor**
 - Renew the **vehicle fleet**
 - Replace **de-icing chemicals**
 - Implement an off-grid biogas plant at **Svalbard Airport**
 - Decrease the carbon content of **firefighting exercises**
 - Phase-out fossil fuels for **thermal energy and backup generators**
- **Groupe ADP**
 - Improve **energy performance**
 - **Decrease the carbon content** of consumed energy through the implementation of renewable energy assets on-premises (e.g. geothermal energy), or through market-based measures
 - Greening the **vehicle fleet**
 - Eliminate **residual co2 emissions** (technological carbon capture and storage and/or nature-based solution)
- **Athens International Airport S.A. (AIA)**
 - Produce and self-consume solar energy to cover 100% of AIA's needs for **electricity**
 - Renew the **vehicle fleet**
 - Implement alternatives to **boilers**
 - Use fossil-free fuel for the **generators**
 - Engage the **airport community**





THANK YOU

www.aci-europe.org

www.airportcarbonaccreditation.org

