

# 10 FACTS

## AUSTRO CONTROL – AN ENVIRONMENTAL PIONEER

### ENVIRONMENT

AUSTRO CONTROL IS FULLY AWARE OF ITS ENVIRONMENTAL RESPONSIBILITIES. THE COMPANY IS CONTINUOUSLY IMPROVING ITS ENVIRONMENTAL PERFORMANCE THANKS TO ITS CERTIFIED ENVIRONMENTAL MANAGEMENT SYSTEM. ADHERING TO THE HIGHEST SAFETY STANDARDS, AUSTRO CONTROL HAS MADE A SIGNIFICANT CONTRIBUTION TO REDUCING HARMFUL EMISSIONS FROM FLIGHT OPERATIONS.

### 1 SHORTER ROUTES IN AUSTRIAN AIRSPACE

In 2012, Austro Control became one of the first ANSPs in Europe to start rolling out free route airspace – the Free Route Airspace Wien (FRAW). The shorter flight paths created as a result helped reduce CO<sub>2</sub> emissions by as much as 32,500 t a year.

### 2 FREE ROUTE BEYOND BORDERS

Coordination of en route flights between Austria and Slovenia (Slovenia Austria Cross Border Free Route Airspace or SAXFRA) cuts CO<sub>2</sub> emissions by an additional 15,700 t each year.

The South East Common Sky Initiative Free Route Airspace (SECSI FRA) delivers a further annual decrease of 9,100 t (for the whole of the south east European airspace).

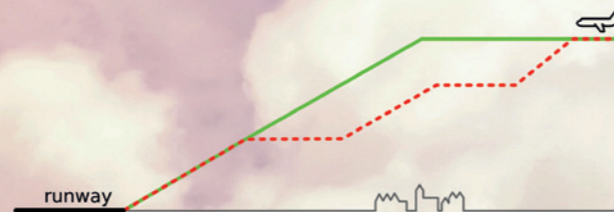


### 3 CONTINUOUS CLIMB (CC) – UP, UP AND AWAY

Continuous climbs and descents allow aircraft to avoid periods of horizontal flight as far as possible. In 2019, 69% of all departures from Vienna International Airport were CC operations, which helped cut CO<sub>2</sub> emissions by 24,650 t.

### 4 CONTINUOUS DESCENT (CD) – GLIDING TO THE DESTINATION

Implementing continuous descents (green line) brought about a 20,000 t drop in CO<sub>2</sub> emissions in 2019.



<sup>1</sup>As Austro Control only uses green electricity at virtually all of its sites, there is no actual reduction in the amount of fossil fuels used to generate electricity. Given that renewable energy forms result in indirect CO<sub>2</sub> emissions – e.g. constructing plants – all energy savings make a contribution to climate protection.

<sup>2</sup>Reference value, recommended by Environment Agency Austria, REP 0654, 2018

### 5 NOISE REDUCTION DIALOGUE

As a founding member of the Dialogforum Flughafen Wien (Vienna Airport Dialogue Forum), Austro Control has been a reliable and constructive partner to the local community for many years regarding the development and implementation of noise-reduction measures at and around Vienna International Airport.

### 7 TECHNOLOGY: ALWAYS ONE STEP AHEAD

Austro Control has introduced the Austria-Wide Area Multilateration System (AWAM), which is the world's largest and most sophisticated system for fixing aircraft positions:

AWAM helped deliver the following savings in 2019:

- Around 1,200 MWh of electricity
- Theoretically<sup>1</sup>, this corresponds to 310 t CO<sub>2</sub> (based on Austrian electricity generation<sup>2</sup> in 2017).



### 10 PLATINUM STANDARD FOR THE NEW AUSTRO TOWER

Planning, design and construction of the new headquarters followed the standards drawn up by the Austrian Sustainable Building Council (ÖGNI). An external audit showed that the building conforms with ÖGNI's highest standard, Platinum.

### 6 COORDINATED PROCESSES FROM GATE TO TAKE-OFF

Measures with the potential to cut CO<sub>2</sub> emissions by 6,300 t over a 30-month period were identified at Vienna International Airport under an Airport Collaborative Decision Making (A-CDM) project. This represents a reduction of around 2,500 t CO<sub>2</sub> a year.

### 8 GREEN ELECTRICITY FROM PHOTOVOLTAICS

With five PV arrays now installed, Austro Control's photovoltaic energy generation capacity amounts to 20 MWh.

### 9 EFFICIENT BUILDINGS

Work to modernise existing building stock has delivered energy savings of up to 500 MWh a year. This saving – based on the Austrian electricity mix<sup>2</sup> for 2017 – theoretically<sup>1</sup> translates into a 130 t drop in CO<sub>2</sub> emissions.

