



THE EMBRAER E190-E2

Even easier on the environment

Being a Swiss-based airline, in addition to its paramount concern of the safety of its flight operations, Helvetic Airways makes environmental care and sustainable growth two further top priorities. And our new Embraer E190-E2 aircraft are our concrete response to the current climate debate.

Regrettably, the present discussions on the environmental front reveal some misunderstandings among the public over the functioning and the specifics of the aviation world. As one of Europe's largest regional airline, Helvetic Airways has a responsibility to play an educational role here. Which is why we intend to provide clear facts and transparently show what we are doing to minimize the ecological impact of our business and operations.

Are air transport and environmental care compatible?

Our answer here is a very clear «yes». We strongly believe that mobility is an individual freedom. Everyone must decide for themselves. But as a Swiss airline, we live up fully to all our environmental responsibilities, and also adopt a proactive approach to all ecological issues. Our goal in doing so is to ensure environmentally responsible operations in a pragmatic way.

How can we achieve this?

With their more ecofriendly credentials and their advanced engine technologies, our new Embraer E190-E2s burn by up to 20% less fuel than the previous-generation E190-E1. The E190-E2's nitrogen oxide (NOx) emissions are also a full 50% below the maxima specified under the ICAO CAEP/6 regulations. These are the immediate and concrete benefits that our new Embraer E190-E2s are bringing to our operations, our customers and the environment.

Helvetic Airways in brief

Helvetic Airways provides a range of short- and medium-haul European air services from and to its Zurich (Switzerland) base. In addition to its own scheduled flights, the airline operates charter services and 'wet leases' under which it provides both the aircraft and its crew. Up to eight Helvetic Airways Embraer E190s are currently operated on behalf of Swiss International Air Lines under a long-term lease agreement.

New aircraft

Since 1.11.19, Helvetic Airways has been operating the first of 12 advanced new Embraer E190-E2 aircraft.

Workforce

The Helvetic Airways workforce currently numbers some 450 employees. The company also has its own maintenance hangar at its Zurich Airport base.

Flight Academy

Helvetic Airways has been working closely with Horizon Swiss Flight Academy AG (www.horizon.sfa.ch), which is based in Kloten, Switzerland, since 2008. Both companies are part of the Helvetic Airways Group, which is domiciled in Freienbach, Switzerland.

Current fleet

6 Embraer E190-E1s
7 Embraer E190-E2 (1 more on order)
4 Embraer E195-E2 (on order)

Technical facts about the Embraer E190-E2 and its engines

- With its aerodynamic redesign and its impressive next-generation engines, the Embraer E190- E2 boasts substantially-improved kerosene credentials.
- As all the modules of the engines run at their optimum rotational speed, we can reduce fuel and noise.
- Since entering the market, Pratt & Whitney's geared turbofan (GTF) engines have accumulated more than four million engine revenue hours and have demonstrated an ability to reduce fuel burn by up to 20%, saving customers worldwide a staggering 750+ million litres of fuel.
- The GTF also significantly lowers regulated emissions (which has led to more than two million tonnes of carbon emissions avoided to date), and reduces the aircraft's noise footprint by 48%.
- The GTF engines currently in service are saving approximately 400 litres of fuel and reducing CO₂ emissions by one tonne per flight hour.
- GTF engines save about 3 600 tonnes of CO₂ emissions per aircraft per year, which is the equivalent of removing some 800 cars from the road for the same period.

All this together results in quieter communities, quieter flights, cleaner air and sustainable economic development. This is the immediate and concrete benefit that we are proudly bringing to our operations, our customers and our environment. Once we have all our Embraer E190-E2s delivered and our E190-E1s replaced, Helvetic Airways will be not only one of Europe's largest regional airlines, but one of its most ecofriendly, too.

- **17.3%**

fuel burn

compared to the E190-E1

- **48%**

noise

compared to the E190-E1
(Zurich noise footprint)

- **3600_t**

CO₂

equivalent of

782*

passenger cars per year
compared to the E190-E1

* A typical passenger car emits about 4.6 metric tonnes of carbon dioxide per year. This figure varies depending on its fuel consumption and the distance travelled.



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