Achieve efficient and sustainable airport operations

EcoStruxure™ for Airports

se.com

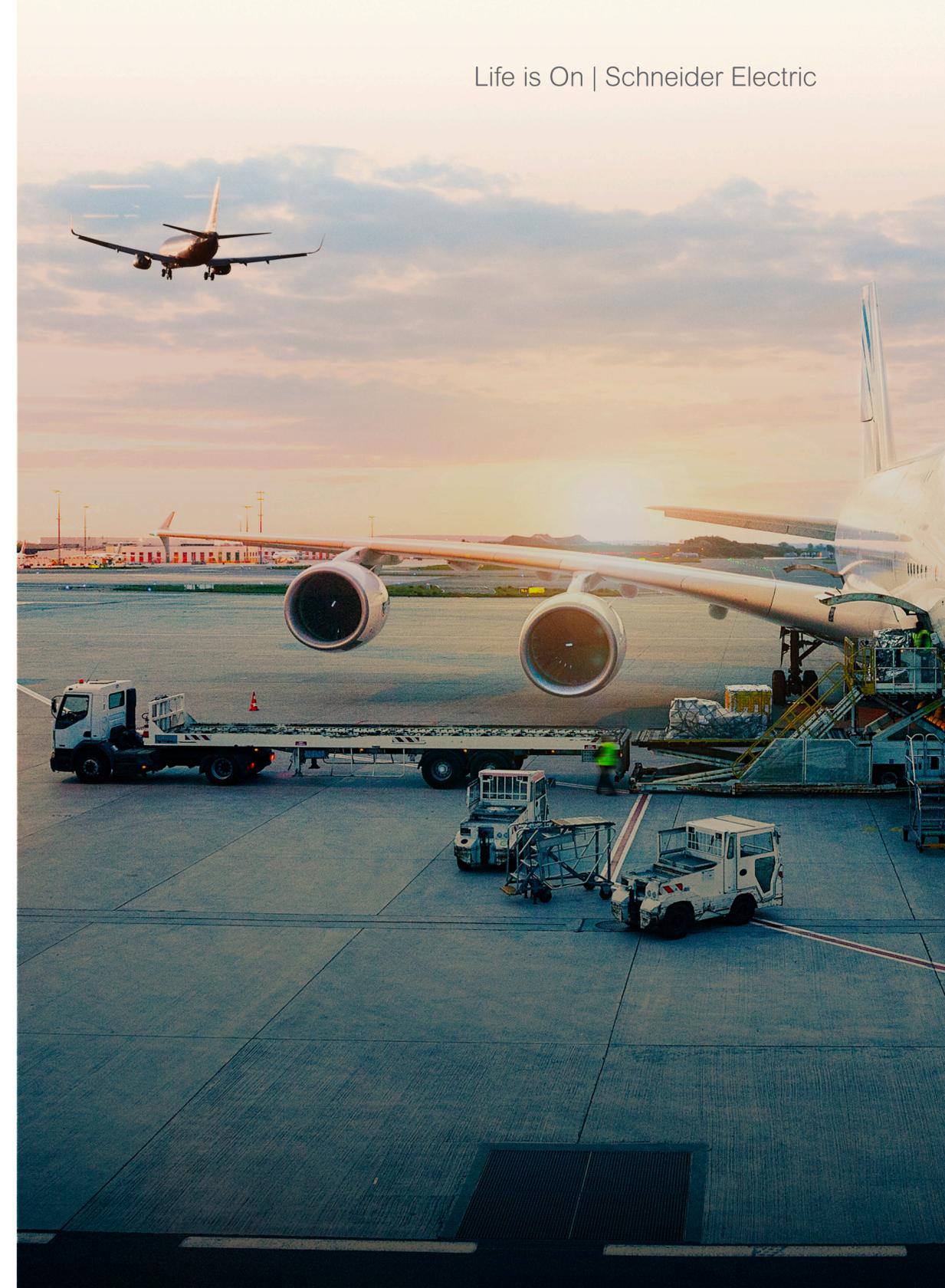Life Is On | Schneider Electric

Prepare your airport for today's and tomorrow's challenges

The job of running an airport is not getting easier. Ensuring continuous operations while optimizing costs, increasing sustainability, and enhancing the traveler experience may seem unattainable.

It's possible to gain an advantage, however, with greater insight, holistic processes, and digital flexibility. How? By choosing digital solutions that offer unrivaled capabilities for improving operational efficiency, energy management, processes, and reducing the facility's carbon footprint.

At Schneider Electric, we have the expertise and experience to support airports in digitizing infrastructure and achieving seamless operations, today and in the future.

Enhance operations from airside to landside

Airside

Landside

Terminal

Runway lighting

Jetway

A6

Gates

Utilities

Retail

Terminal

Security

Baggage

Road

Ground Transport

Light rail transit

Because airports have very specific needs, we've developed an open, interoperable IoT architecture that helps comprehensively enhance air transport infrastructure.

EcoStruxure for Airports integrates different domains of expertise (process automation, power, building control, IT) and connects products through the edge to software, applications, analytics, and services.

The results? Better visibility and control of airport operations and traveler experience through continuous awareness, easier collaboration, and real-time decision making.

A roadmap to tangible results

Four key areas need to be addressed to create a resilient and future-ready airport infrastructure.

Boost operational excellence and efficiency >

Maximize airport facility uptime >

Ensure the best traveler experience >

Become a leader in sustainability >

Boost operational excellence and efficiency

By streamlining operations, airports gain greater flexibility in adapting to passenger flows and managing resources more efficiently.

What's the best way to achieve this?

Centralize operations
by integrating systems for
a "single version of the truth"
and fast operational decisions.

Empower airport operations
with the right information at the
right time.

"The centralization of operations that we get with AVEVA System Platform helps manage around 700,000 signals and is essential for a critical infrastructure like this. We can now quickly respond to incidents and also be proactive in optimizing management."

Jordi Asensi, Head of Systems & Database Management,

AENA Barcelona Airport

Maximize airport facility uptime

The reliability of the electrical network and the security of control systems is crucial for business continuity at airports.

What's the best way to achieve this?

Digitize and simplify electrical distribution
for safer, more reliable, and efficient performance

Use advanced monitoring and data analytics
to prevent the risk of equipment failures and outages

Integrate building systems control
to boost comfort, safety, availability, and efficiency

Protect the continuity
of critical operations with a comprehensive end-to-end cybersecurity approach

$50 M
revenue lost by Delta Air Lines during the 2017 outage

Source:
USA Today, Delta: Atlanta airport power outage cost $25M to $50M in income

$28 B
estimated losses in case of an airport cyberattack

Source:
Source: SITA, Lloyd's 2019 Cybersecurity Report

Ensure the best traveler experience

A smooth check-in to boarding journey helps ensure top passenger experience, as well as efficient airport operation.

What's the best way to achieve this?

Boost boarding efficiency convenience, and safety through passenger boarding bridges

Increase baggage throughput with an integrated solution that connects and automates processes

"At Geneva Airport, we strive to always offer to our passengers an enjoyable and efficient experience that starts within the parking lot and ends while boarding the plane."

—Florian Cochard, Head of Electrical Services, Geneva Airport

25 M

Pieces of luggage lost at the airports every year

Source:
BBC News, Why do airlines still mislay 25 million bags a year?, 3 July 2019

Become a leader in sustainability

Working on environmental targets and regulatory compliance brings significant benefits – specifically greater efficiencies and cost savings.

What's the best way to achieve this?

Generate renewable energy
and integrate it into a microgrid to reduce costs and boost power reliability.
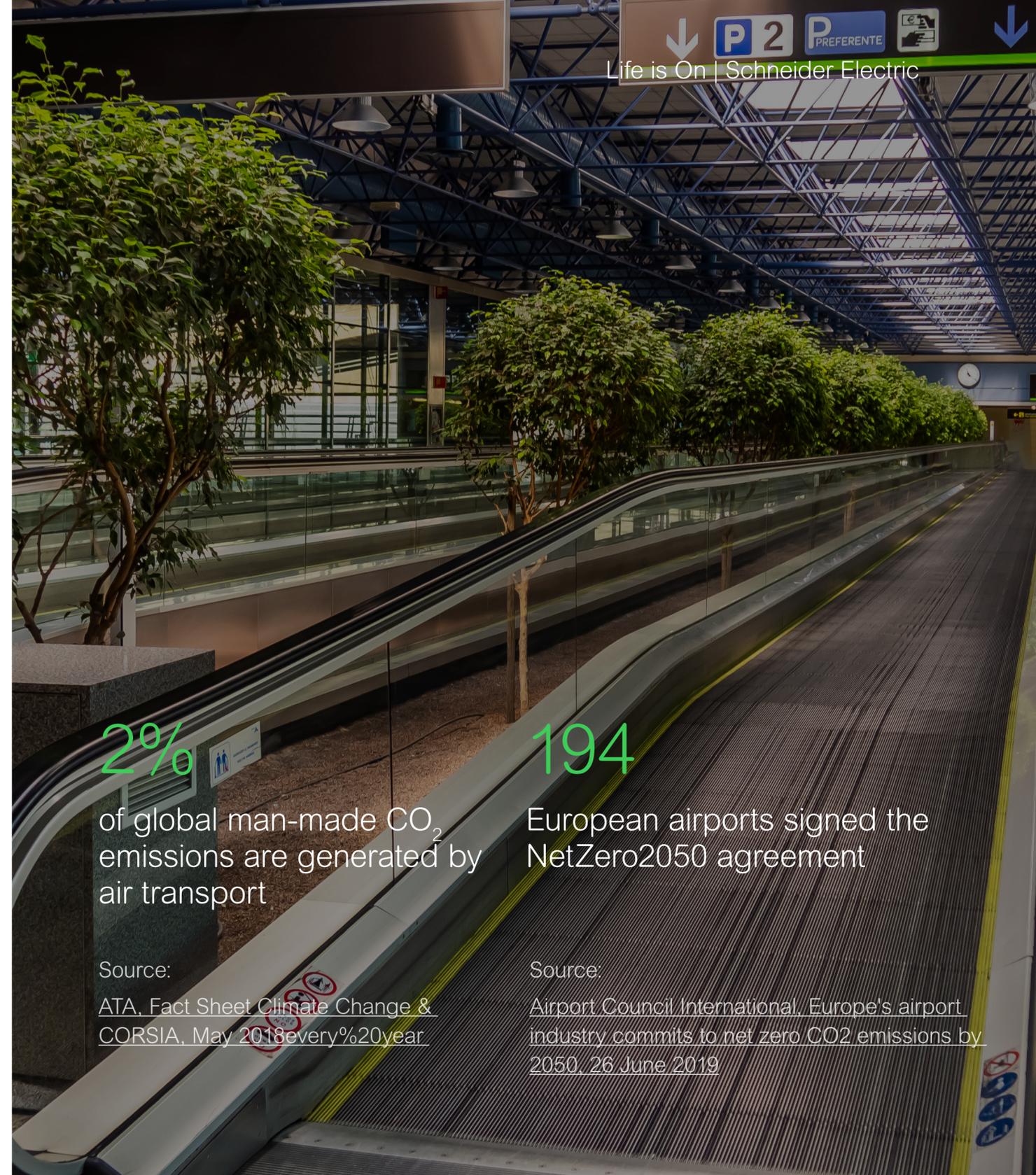
Buy energy smarter
and better navigate complex global energy markets to achieve carbon neutrality.

Improve the energy efficiency of buildings
by optimizing HVAC and lighting. These systems consume around 60% and 15% of a building's energy, respectively.

Adopt a circular economy mindset
on electrical and automation assets by managing their end-of-life and using eco-friendly products.

2%
of global man-made CO_2 emissions are generated by air transport

Source:
ATA, Fact Sheet Climate Change & CORSIA, May 2018every%20year

194
European airports signed the NetZero2050 agreement

Source:
Airport Council International, Europe's airport industry commits to net zero CO2 emissions by 2050, 26 June 2019

Unlock your airport's untapped potential with an experienced partner

Tap into proven products, solutions, and architectures (TVDAs) backed by Schneider Electric's experience from working with ten major airports around the world.
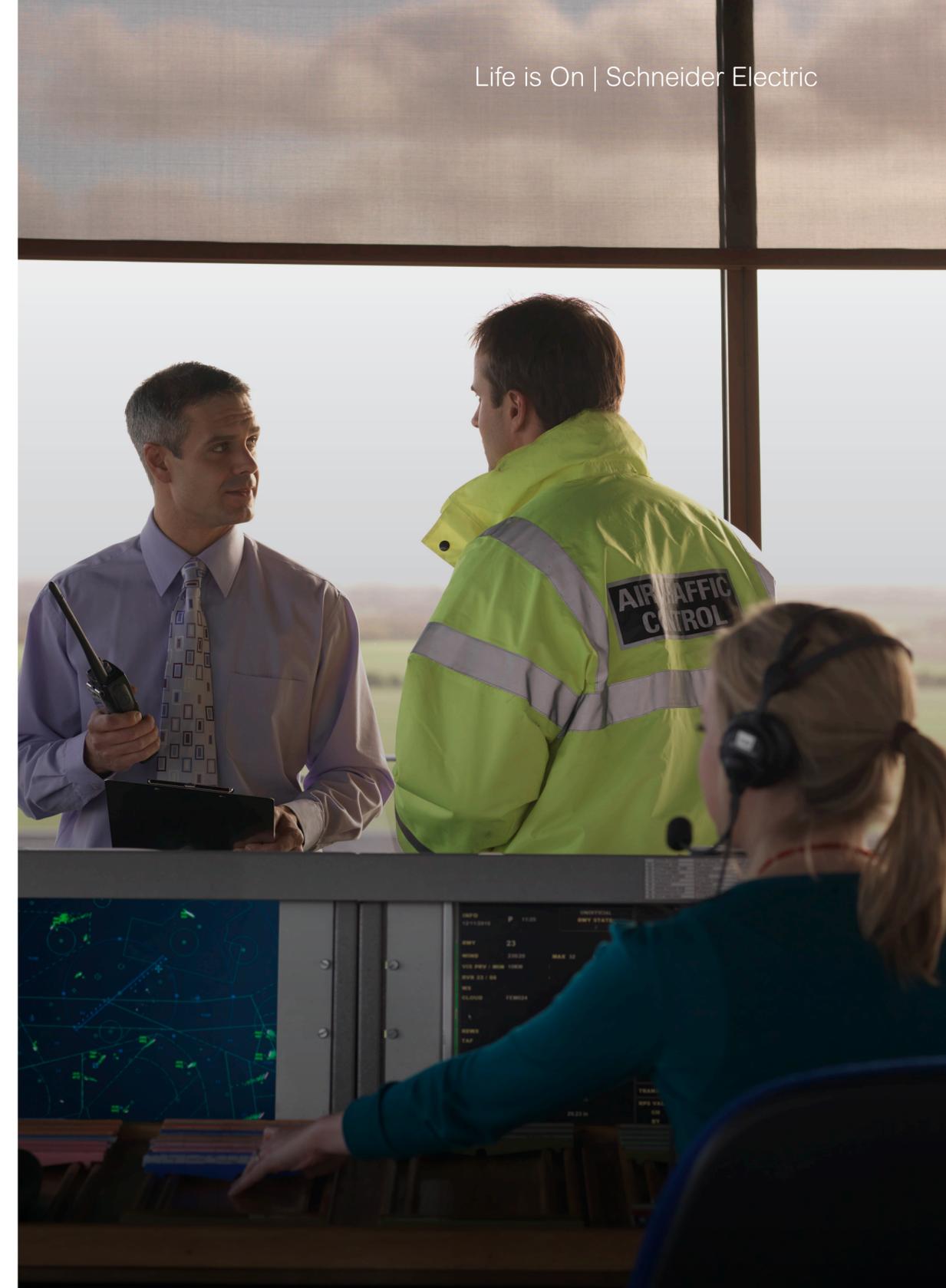
Execute projects on time, on budget, and with lower risk with our assistance in project management and integration.

Get extended support through lifecycle services, from energy and sustainability consulting to optimizing asset lifecycle and enhancing cybersecurity.

Gain a partner with global expertise and local support, well-positioned to transform airport operations for greater reliability, efficiency, and sustainability.

"Working with Schneider Electric brings solutions that integrate sustainability, resiliency, solid lifecycle savings, and enables terminals to realize their full digital potential."

Ginger Evans, Chief Strategy Officer, Carlyle Airport Group

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Explore the full capabilities of
EcoStruxure for Airports here

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