



ABB

Delivering the exceptional

Exceptional solutions for an exceptional experience



Contents

INTRODUCTION

Airport infrastructure is evolving

The need for safer, smarter airports is accelerating.

Estimations for airport infrastructure needs over the next five years are **\$151 billion**. Virtually all airports need increased capital expenditure to maintain and expand their infrastructure in order to accommodate airlines and passengers, increase efficiency of their processes, and enhance customer experience.

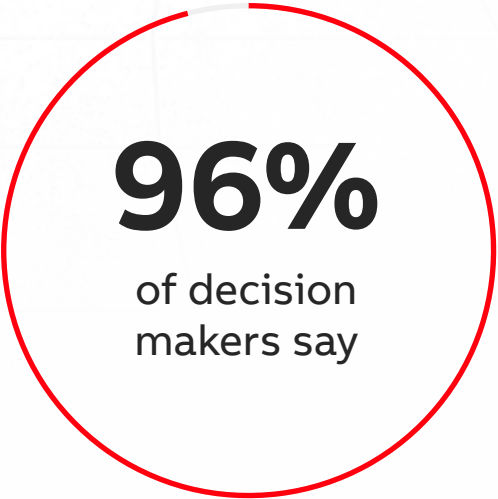
The demands of airport development are complex:

Operations must not only cater to passengers’ evolving needs they must also meet essential efficiency KPIs, maintain exceptional safety and fulfill evolving sustainability regulations.

Creating safer, smarter and more sustainable airport infrastructure demands a partner who can back you every step of the way.

Whether your airport project is greenfield or a brownfield site in need of an upgrade, ABB has a solution backed by 130 years of experience in delivering exceptional, hardware and digital solutions to global industries.

With our broad portfolio and digital expertise, we can offer partnership at any stage of the process. So, take a look at our offering and get ready for an exceptional experience at every stage.



“
Digitalization
is essential for
sustainability.”



1 END-TO-END PORTFOLIO



Explore solutions from source to socket

Robust power infrastructure solutions are the foundation of smooth, efficient and sustainable airport operations.

ABB experts work in partnership with you to offer safe, reliable and proven power solutions designed to meet your project’s real-life needs. Our portfolio offers everything from standalone digitally-enabled products to an entire digitalization solution, supported by the innovative ABB Ability™ digital platform.

Simply put, we’ve got you covered from substation to socket.





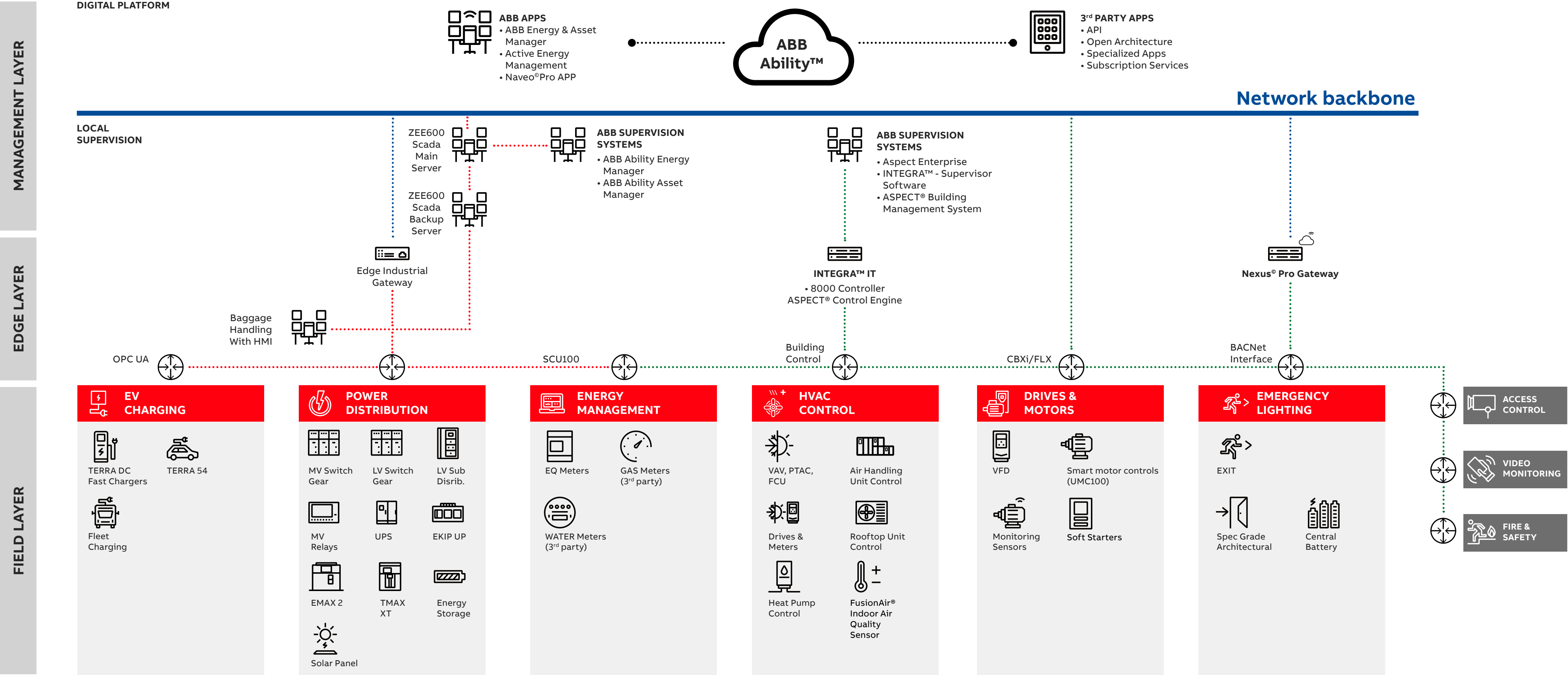
Solutions at all levels

Infrastructure and reference architecture

ABB OFFERING

INTEGRATED OFFERING

APPLICATION INTERFACE





Medium voltage distribution

PRIMARY SWITCHGEAR

MODULAR SOLUTIONS

Low voltage distribution

SWITCHGEAR

SWITCHBOARD

CIRCUIT BREAKERS

MOTOR PROTECTION AND CONTROL



2 DIGITALIZATION



Interactive digital solutions

Building airport 4.0 requires support from world-class digital solutions, enabling safer, smarter and sustainable operations.

Whether you’re looking to upgrade existing solutions or future-proof new airport infrastructure, ABB’s digital portfolio will empower better decisions across operations, unlocking a more efficient and sustainable future for all.

Our digital systems experts create a tailored digital solution for virtualized protection and control.

- Scalable, comprehensive, versatile, digital solutions
- Reliable long-term management of electrical systems
- Digitally optimized, pre-engineered, pre-tested for reduced risk



ABB Ability™ platform

The ABB Ability™ digital platform offers airport customers maximum value, integrating software, hardware and services, all supported by ABB’s unmatched domain expertise.

Powered by the ABB Ability™ platform, our solutions help you:

- Gather insight into asset performance, informing billions of better operational decisions
- Optimize airport building management, enabling operators to access systems, anytime, anywhere
- Implement predictive, condition-based maintenance to maximize reliability and availability across airport power systems and assets





ABB Ability™ solutions

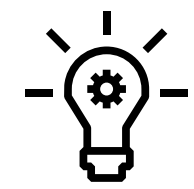
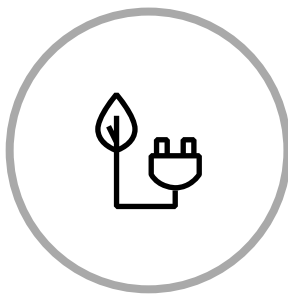
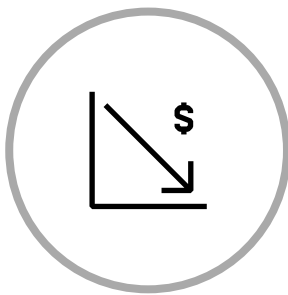


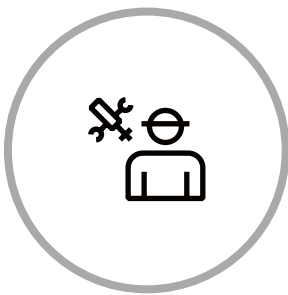
ABB Ability™ Energy and Asset Manager



Save on energy usage with remote energy and monitoring insights.



Reduce operating costs with real-time condition monitoring and asset health management.



Reduce maintenance costs with predictive maintenance planning

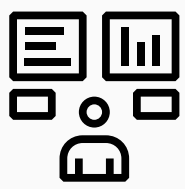


ABB Ability™ Operations Data Management - zenon

A highly secure platform that connects airport infrastructure and assets to turn data into actionable insight.



Minimize downtime and optimize energy efficiency



High-level data security enables supervision, control, performance reporting and scheduling across complex airport systems



Fast, dependable, and agile automation



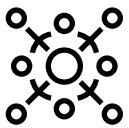
Simple and seamless integration



Smart substation control and protection

A revolutionary one-device approach to protection and control in distribution networks.

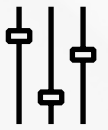
SSC600



Advanced control and protection centralized to substation distribution level



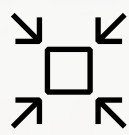
Real-time monitoring and control for up to **15% life cycle cost savings**



Simple to use, **flexible application coverage**, easy-install modular software



Digital switchgear solutions



Footprint savings with use of sensors



24/7 asset health monitoring with SwitchgearMD™ temperature, partial discharge and humidity sensors



Increased reliability with current and voltage sensors



Virtualized protection and control



3 SUSTAINABILITY



Electric Vehicle (EV) solutions

Whether it’s the buses transporting passengers to your airport or conveying baggage to the runway, building a sustainable airport means laying the foundations for smart, emission-free mobility.

ABB’s EV solutions ensure we are the partner of choice for some of the largest OEM brands. Here is just a selection of our solutions for efficient and reliable EV infrastructure, including compact, fast-charging DC stations.



Smart charging for bus and truck fleets



4 RELIABILITY

Ensure uninterrupted power to the airport of the future

Maintaining continuous airport operations is not just about ensuring a smooth passenger experience, it’s also about maintaining the highest standards of safety for every person and asset on site.

ABB’s uninterrupted power supply (UPS) solutions for airports are designed to deliver clean, continuous power supply even in extreme environmental conditions.



Uninterrupted Power Supply

TLE Series UPS (40-150kW)

High-power UPS system designed for zero down-time.

- Flexible modular design, designed for future-proof scalability, up to 3 MW
- No downtime for module additions or replacements
- Long design life of +12 years



Hiperguard (6.6 kV – 24 kV)

The next generation of medium-voltage UPS for reliable and efficient critical power installations.

- High efficiency and fault-clearing capabilities
- Reduce CO₂ emissions with energy efficient configuration
- Increased control with remote monitoring and diagnostics



5 SERVICE SUPPORT

An exceptional partnership

In addition to our end-to-end solutions, ABB is ready to offer airports expertise and support throughout the asset life cycle with our life cycle management programs.

Designed to help you protect your investment, our training, maintenance, repair, retrofitting and recycling programs help you optimize operations from end-to-end.

So, when it comes to planning, building and running the airport of the future, we're ready to help ensure an exceptional experience at every stage.

So, let's get started.





Conclusion

Let’s talk about your
airport project

