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AEME GSE

Green Airport  
Pioneer



# Who We Are

**AEME GSE is a global pioneer in aviation Ground Support Equipment (GSE), driving the green transformation of airports with innovative energy solutions.**

With over 20 years of expertise in power electronics technologies, we offer a comprehensive portfolio of GSE products—including eGPUs, solid state power units, energy management systems, and cable reels.

Our solutions are widely deployed at major civil airports in the Asia-Pacific and are rapidly expanding into global markets.

From independent R&D and intelligent manufacturing to a global service network, AEME delivers scalable, reliable, and adaptable green airport solutions tailored to diverse operational needs.

**20+** Years

Of expertise in power industry

**7.3+** Million tons

Carbon Emissions Reduced

**95,000** m<sup>2</sup>

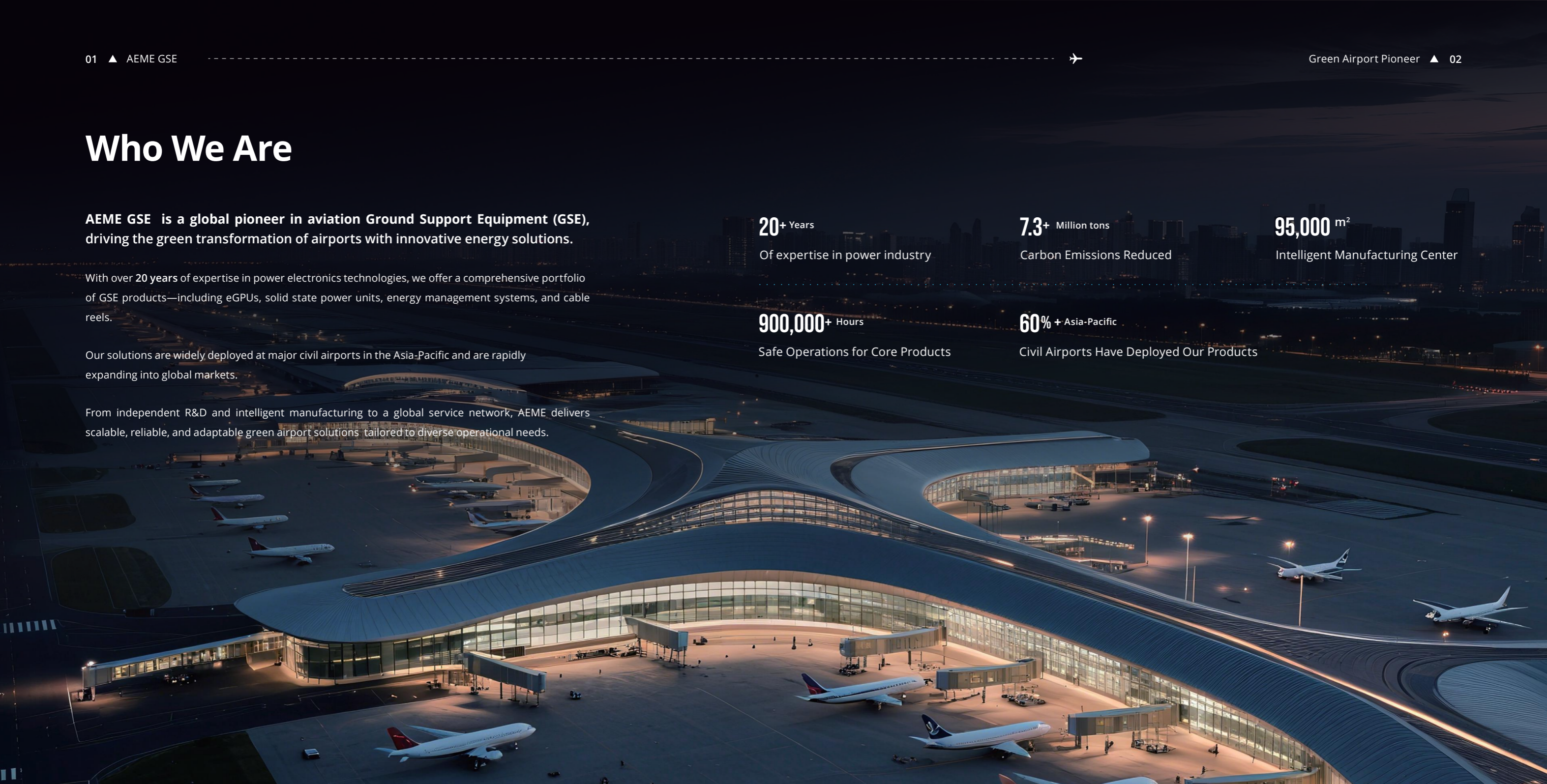
Intelligent Manufacturing Center

**900,000+** Hours

Safe Operations for Core Products

**60%+** Asia-Pacific

Civil Airports Have Deployed Our Products



## Why AEME GSE

### AEME GSE Intelligent Manufacturing Center

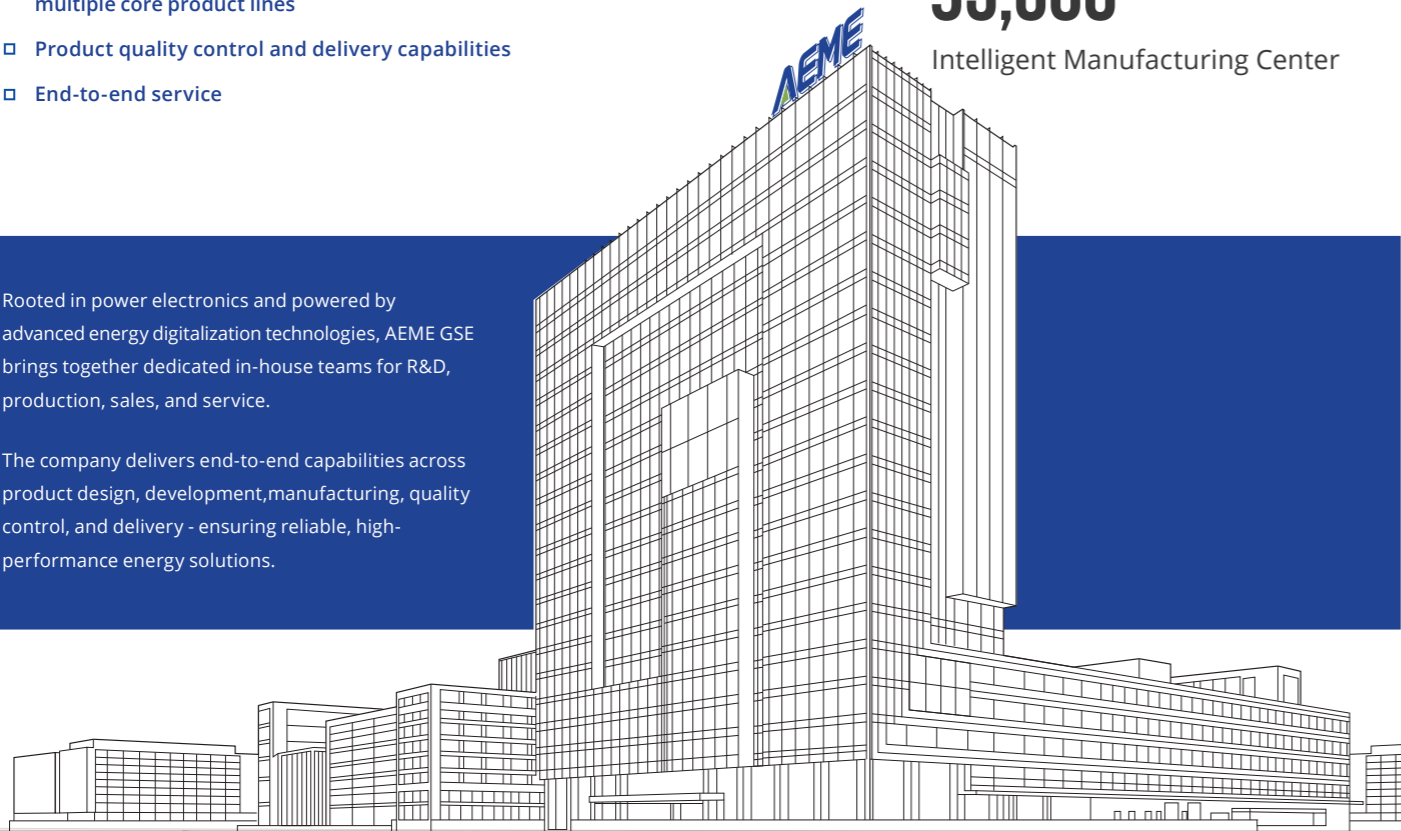
AEME GSE's headquarters spans 95,000 square meters, integrating both office and manufacturing functions within the manufacturing center.

- In-house teams for solution and product R&D
- Strong intelligent manufacturing capacity across multiple core product lines
- Product quality control and delivery capabilities
- End-to-end service

**95,000** m<sup>2</sup>  
Intelligent Manufacturing Center

Rooted in power electronics and powered by advanced energy digitalization technologies, AEME GSE brings together dedicated in-house teams for R&D, production, sales, and service.

The company delivers end-to-end capabilities across product design, development, manufacturing, quality control, and delivery - ensuring reliable, high-performance energy solutions.



# Why AEME GSE

## Technical Innovation



Leveraging advanced technology, AEME leads in green energy storage R&D. Our innovative aircraft ground power supply, ultra-silent modular PCS, and all-in-one systems are widely recognized by the market.

## Customer Support



We provide one-stop solutions with proven capabilities in R&D, manufacturing, quality control, and delivery, offering complete support from design to installation and commissioning.

## Quality Control



AEME adheres to "quality-first" philosophy. Our team ensures every product meets the highest industry standards.

## Delivery Capability



Customer-centric and execution-driven, AEME offers standardized project delivery and O&M systems, ensuring high quality and efficiency from start to finish.



## Technology Innovation

Comprehensive expertise in power electronics and digital control technologies, with proven and reliable performance across multiple products and aviation application scenarios.

Leading in the application of wide-bandgap power electronic devices, while integrating advanced power systems and energy storage technologies.

### Low Voltage Ride Through **LVRTech™**

Ensures equipment stays connected during voltage dips, improving grid stability and operational continuity. When the load power is below 50 kW and the input voltage drops by 60% (to 160 V), the system can continue operating for 2 seconds.

### Green Airport Microgrid Control

Localized microgrid enables smart energy management, real-time control, and low-carbon operations within airports.

### Active Rectifier

High-efficiency AC-DC conversion with fast response, stable voltage, and adaptation to changing loads.

### Power Conversion

Efficient power conversion and outstanding flexibility across diverse scenarios.

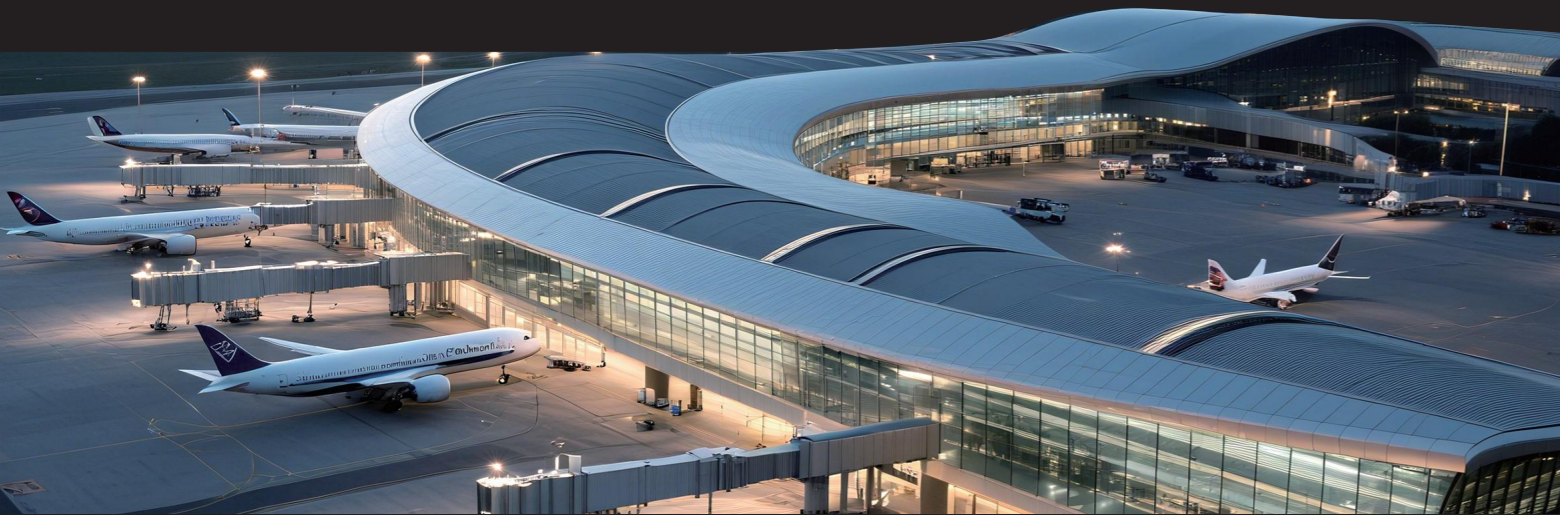
### Remote Real-Time Monitoring

Real-time tracking, fault diagnostics, and energy control for safe, efficient airport operations.

# Green Airport Solutions

## Tackling Critical Challenges in Airport Power Supply

- ❑ Rising Pressure to Decarbonize
- ❑ Limited Power Supply at Remote Stands
- ❑ Unstable Power Connections
- ❑ High Costs for Airport Infrastructure Upgrades



With the implementation of APU replacement and the shift from fuel to electric ground equipment, airport electricity demand has surged. This has led to new challenges in energy efficiency and sustainable airport operations.

# World's First PV-Energy Storage Aircraft Ground Power Solution

The solar-storage-ground power solution is developed based on airport power characteristics and the conditions for airport solar PV installation. By integrating solar power, energy storage systems, and ground power units, it creates a highly efficient, zero-emission green airport solution.

## Intelligent Control



Intelligent management of PV systems to optimize power supply to ground power units, charging piles, and related equipment.

## Stable Power Supply



Addresses limited power and high expansion costs. Combines storage and solar power to improve energy utilization and efficiency.

## Key Products



Cable Reel



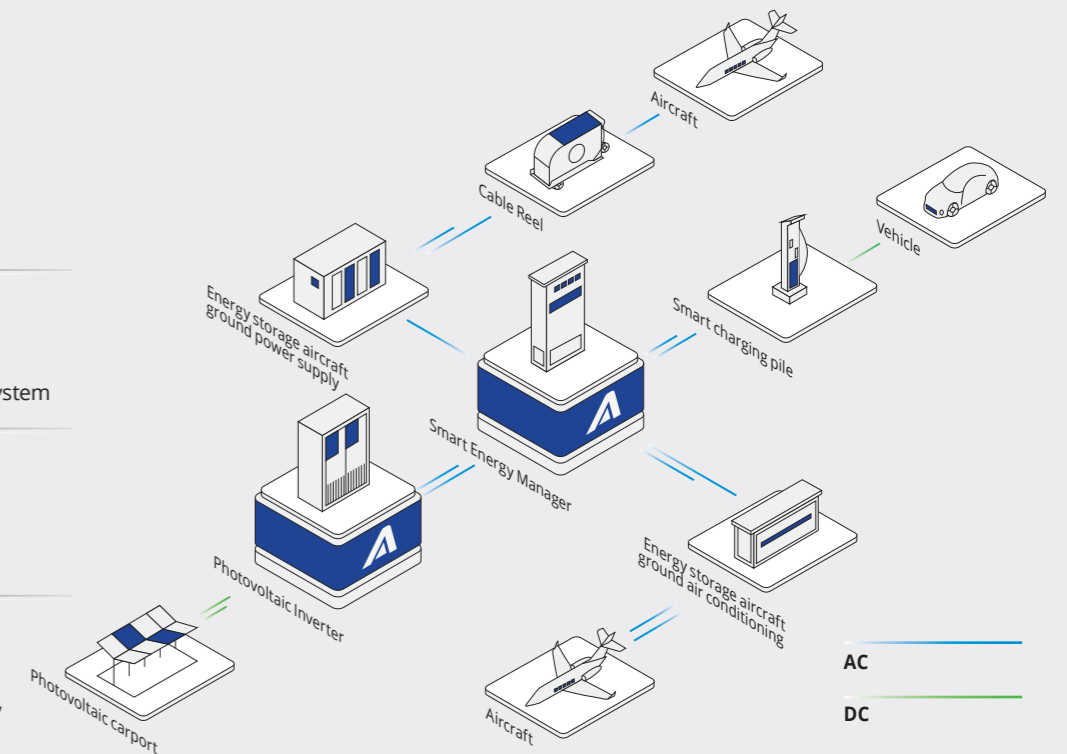
Energy Management System



Charging Pile



Ground Power Supply



# Comprehensive Mobile Power Solution

This solution utilizes a mobile power system to address challenges such as limited power distribution at remote stands. It also enables quick response in emergencies and unexpected situations.

## Emergency Support



Capable of responding quickly to emergencies

**ECOTUG 90** AGSP-ASS-090H-M  
eGPU-ECOTUG 90kVA



## Versatile Applications



Flexible and mobile, green and low-carbon, suitable for multiple scenarios

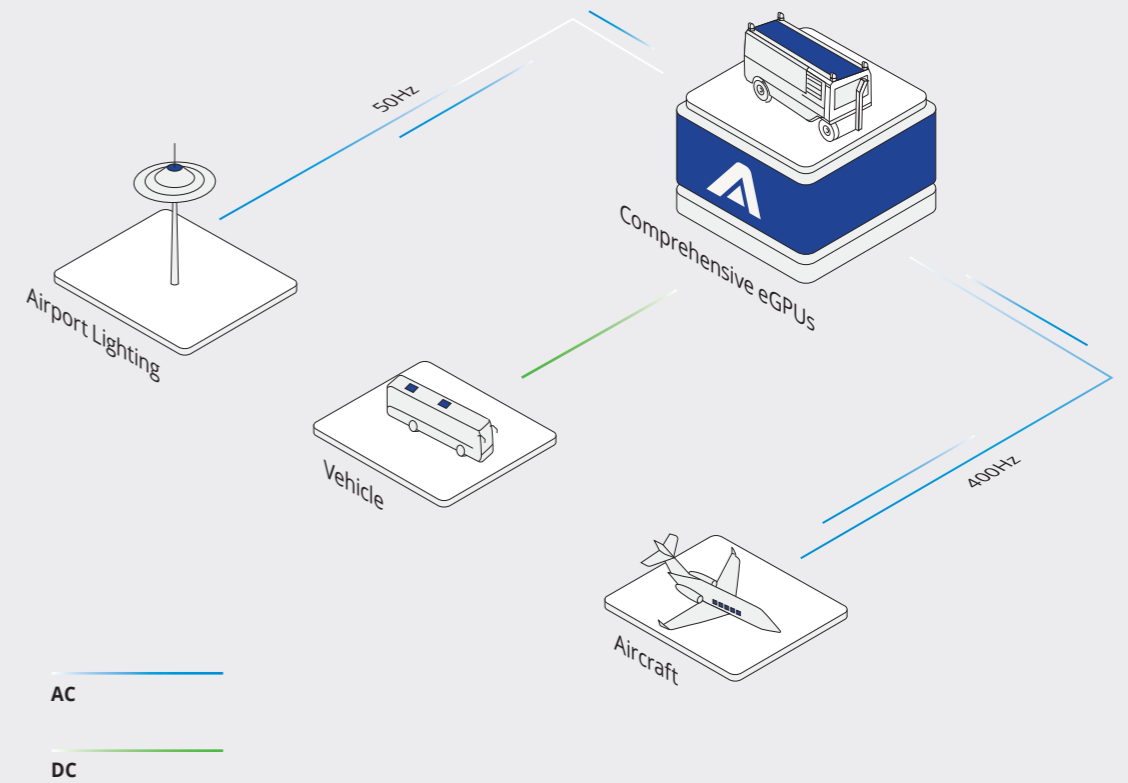
**ECOTUG 180** AGSP-ASS-180H-M  
eGPU-ECOTUG 180kVA



## Key Products



eGPU-ECOTUG



# 400Hz Power Solution

Our 400Hz power supply solution supports global carbon neutrality efforts by enabling APU shutdown during aircraft ground parking.

## Flexible Installation

Modular design allows for flexible deployment in various scenarios

## High Reliability

Supports low-voltage ride-through functions

## High Efficiency

Improved system efficiency to lower energy costs

## Key Products

### S-Power 400

AGSP-ASS-090H-H  
400Hz / 90kVA



### S400-A / S400-V / S400-M

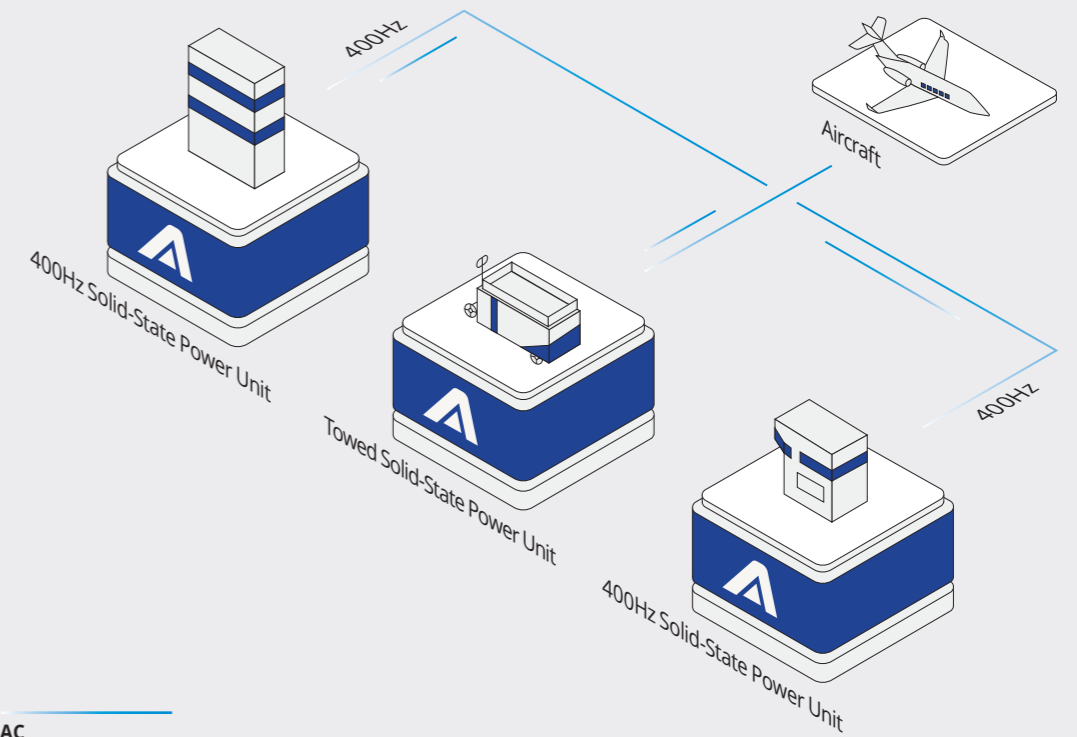
AGSP-ASS-090H-H  
400Hz / 90kVA



## Key Products



Solid-State Power Unit: S-Power



AC

# Energy Storage Based APU Replacement Solution

This solution leverages smart energy management as the core to coordinate power distribution. By fully utilizing power resources and energy storage systems, it enables an optimized energy use that achieves APU replacement and meets the power demand of green energy loads.

## Cost-Effective



No need for power capacity expansion, requires 1/6 the capacity of traditional power systems

## Highly Compatible and Scalable



Seamless power supply during grid interruptions

## Key Products



Cable Reel



Charging Pile



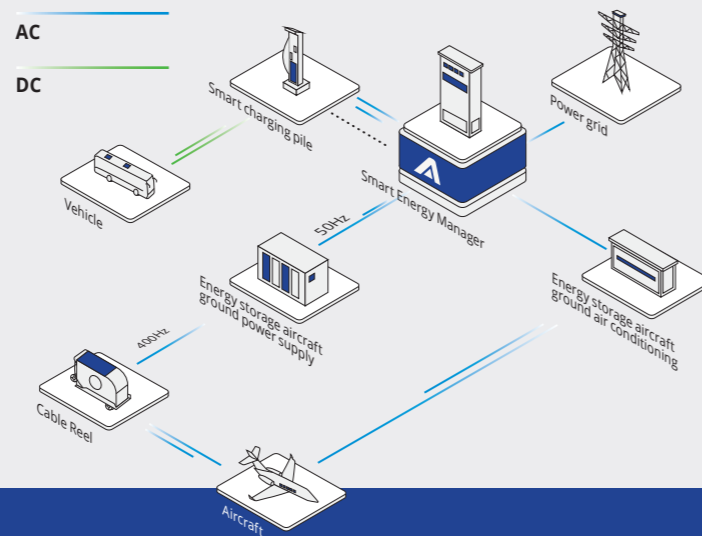
Energy Management System



Ground Power Supply

### M45D AGPW-A-45-M

Cable Reel



# Microgrid Solution

The solution enables microgrid control for efficient energy scheduling on the apron, smart power management of electricity consumption across the airport, and minimizes energy capacity waste.

## Information Collection



Collects data from the energy manager and performs intelligent analysis and control.

## Intelligent Control



Enables precise management of ground power units, chilled water air conditioning, lighting, charging stations, and other electrical loads.

## Key Products



Charging Pile



Ground Power Supply



Energy Management System



Microgrid Controller

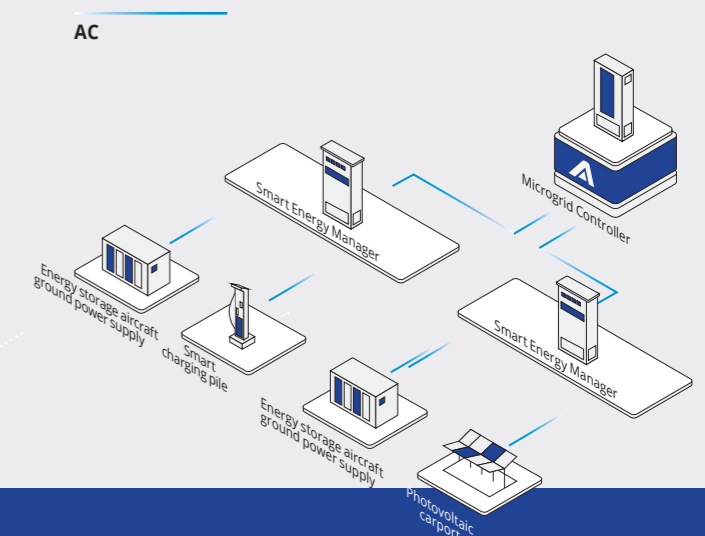
### Microgrid Controller

MS-A-MG



### Power Manager

EMS-A-SPAC



## AEME Solutions in Airports

With operations spanning both Asia-Pacific and international markets, AEME is committed to exploring diverse applications for green energy. Amid the global green energy transformation, AEME GSE aims to become a key force in promoting decarbonization across industries, collaborating with global partners to build a new era of green and smart energy.

30+

30+ airports across the Asia-Pacific region have adopted AEME's GSE portfolio of products and solutions.





Shenzhen Bao'an International Airport



West Air



West Air



Chongqing Jiangbei International Airport



Chengdu Tianfu International Airport



Chengdu Shuangliu International Airport



Hangzhou International Airport



Sanya Phoenix International Airport



Shijiazhuang International Airport



Beijing Capital International Airport



Nanchang International Airport



Nanchang International Airport



Chongqing Jiangbei International Airport



Hangzhou International Airport



Chongqing Jiangbei International Airport



Dalian International Airport