

Active Glass

SunEwat

Energy-generating glass solutions

AGC



Your Dreams, Our Challenge



Shaping the future of facades without compromise

Since buildings account for about 40% of CO2 emissions in Europe*, AGC Glass Europe is firmly committed to making buildings more energy efficient by revolutionising energy-saving facades. With over a decade of experience in active glass technologies and numerous successful projects completed around the world, AGC Glass Europe confirms the accelerating transition towards smart, sustainable buildings that do not compromise on aesthetics or performance.

The perfect balance between efficiency and aesthetics

— SunEwat —

The leading-edge technologies and glass solutions deployed in the SunEwat range transform both new and renovated facades into smart membranes that generate and manage energy while integrating seamlessly into the facade. SunEwat boasts environmental performance and efficiency ratings consistent with nearly zero-energy building (NZEB) standards – all while delivering optimal thermal and acoustic comfort for occupants.

One-stop-shop

SunEwat

SunEwat is the ideal solution for active and smart glass facades that harness high-quality embedded photovoltaic technology to generate significant quantities of energy while delivering outstanding value for money and optimal comfort for occupants. On top of all that, SunEwat offers facade designers limitless architectural and aesthetic options, ensuring seamless integration into buildings.

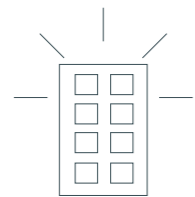
Specialist partners for optimal results

Since integrating SunEwat into a building project requires specialist knowledge and technical know-how, AGC Glass Europe works closely with specially selected partners. By combining their solar energy knowledge with AGC's glass expertise, we can deliver the widest range of photovoltaic-embedded glass solutions.



Key concepts in energy-generating facades

SunEwat



Art and communication

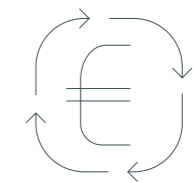
By enabling architects and designers to take an artistic approach to the vision glass elements as well as the spandrels and cladding components, SunEwat delivers elegant solutions that showcase the use of green energy while maintaining the glazing's transparency and functionality.

Fully customizable: architects and designers can arrange and deploy glass sizes and photovoltaic cells as they wish in order to create their own original designs.

Corporate social responsibility: promoting a good corporate reputation through an eco-friendly building.



SunEwat can help achieve performance targets under various building certification schemes, such as **LEED** and **BREEAM**.



Efficiency and payback

SunEwat focuses on efficiency, delivering opaque and aesthetically pleasing integrated solutions for spandrels and cladding components with a payback period similar to that of traditional rooftop photovoltaic units.

No compromise on aesthetics: Facade glass can be active with no negative visual impact whatsoever.

Competitive pricing: Deploying AGC's innovative technologies in energy-generating facades means record low payback periods.

Building autonomy: Sensors built into the insulating glass unit can activate the building management system.



SunEwat is the best solution for enhancing energy autonomy. For office buildings and public buildings, the energy production curve aligns with the energy consumption curve.

The range

SunEwat

Generating energy and delivering optimal comfort for occupants. Facade designers enjoy limitless architectural and aesthetic options combined with seamless integration.

Transparent

Transparent energy-generating glass solutions for facades.

- △ Vision Square
- △ Vision Stripe
- △ SmartSkin

Opaque

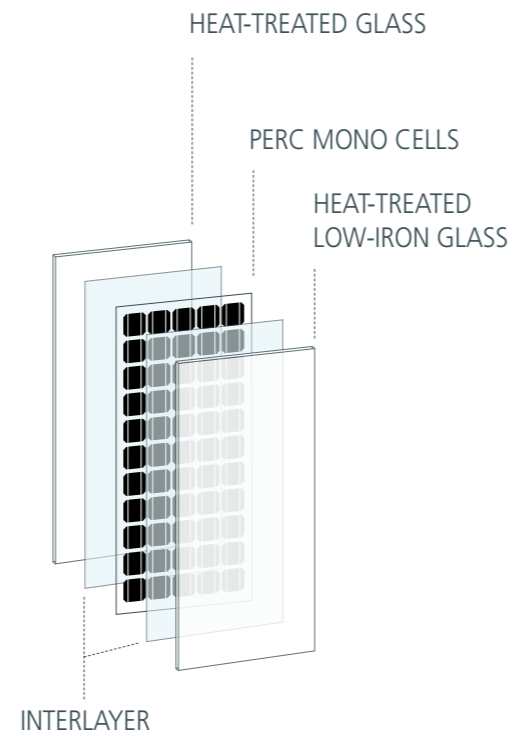
Opaque energy-generating glass solutions for spandrels and cladding.




- △ Stopray Active
- △ Artlite Active
- △ Lacobel T Active



Vision Square

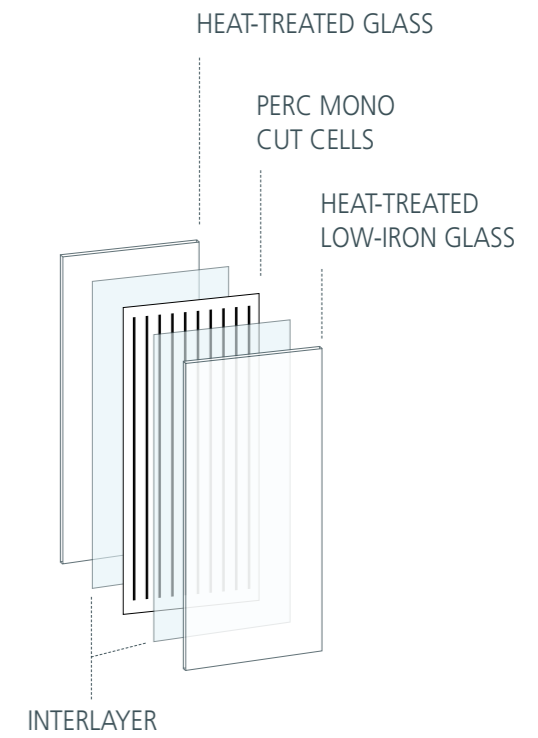
DESIGN & COMMUNICATION






-  **COMPOSITION:** high-efficiency PERC mono or bi-facial cells
-  **APPLICATION:** facades, second skins, canopies, roofs, blinds, etc.
-  **BENEFITS:** creative use of glass, cells, shapes and silkscreen printing

Vision Stripe

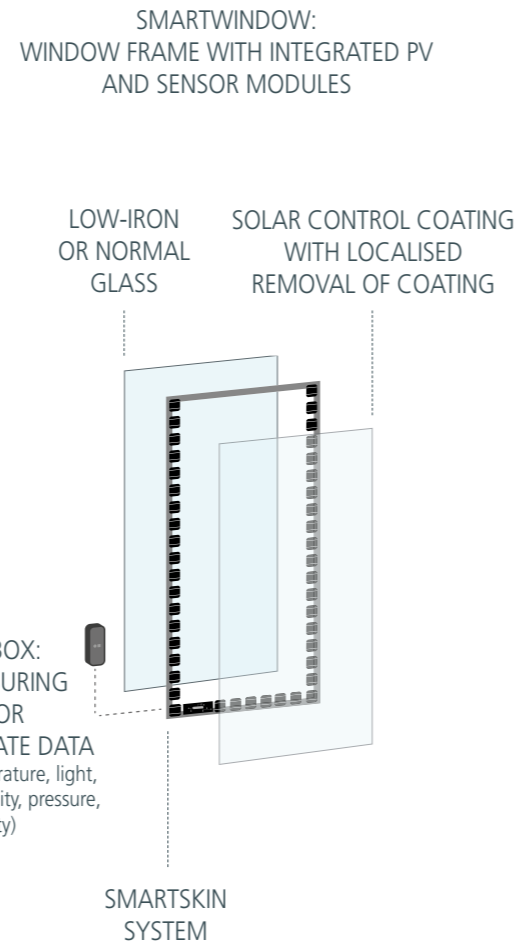
ENERGY & TRANSPARENCY






-  **COMPOSITION:** laser-cut PERC mono cells
-  **APPLICATION:** facade, roof
-  **BENEFITS:** semi-transparent solution

SmartSkin™

SMART ECO-SYSTEM

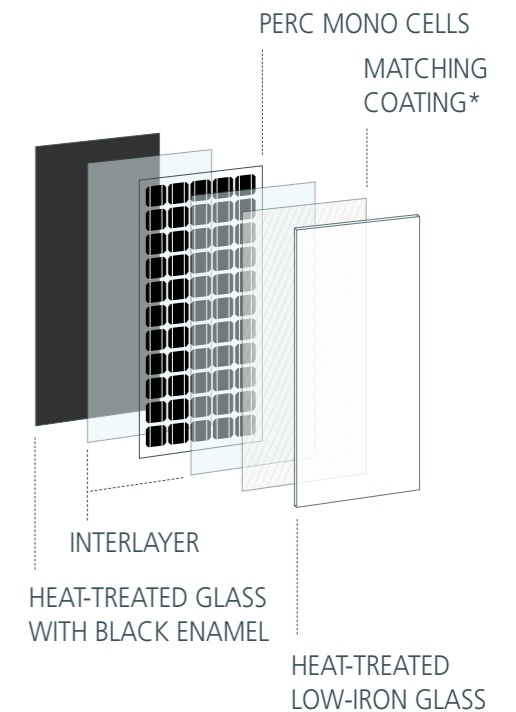
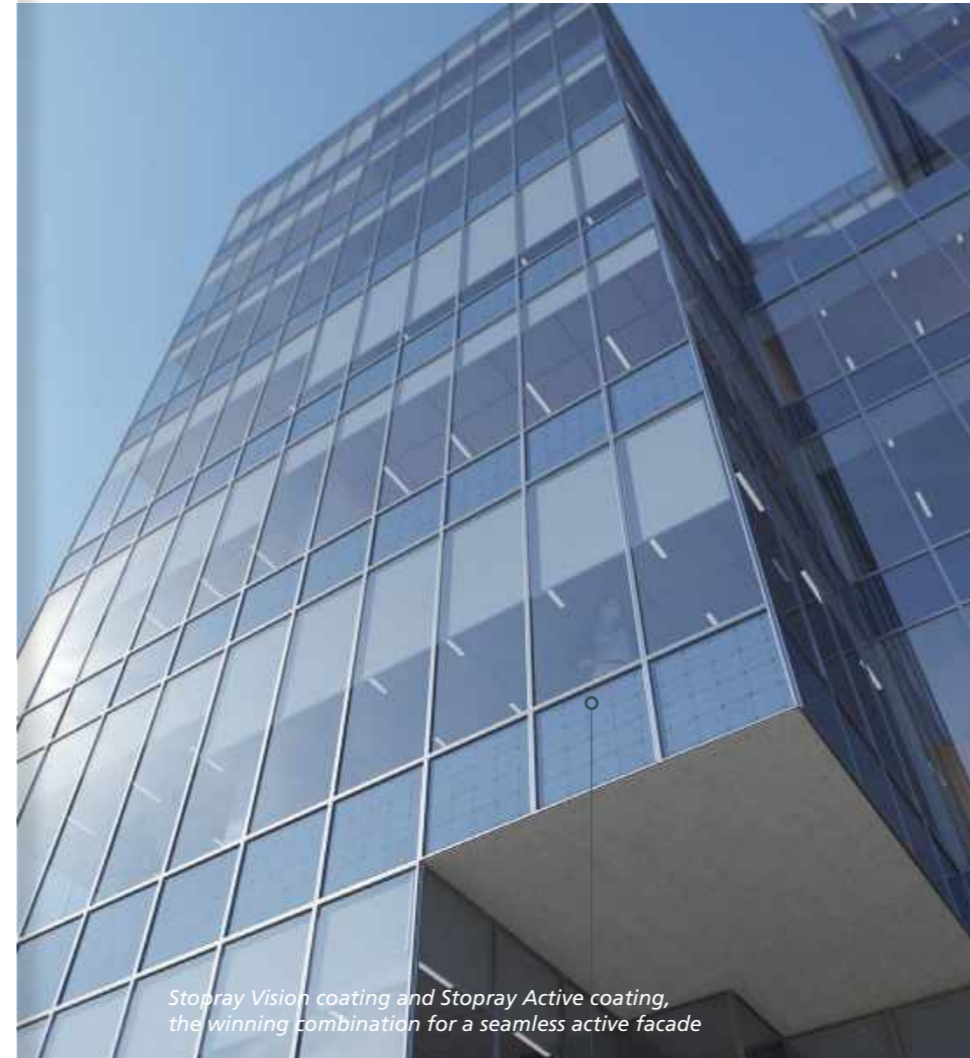





Through a network of sensors, SmartSkin detects changes in internal and external conditions, and autonomously manages sun blinds, lighting and ventilation to optimise user comfort, well-being and productivity levels.

-  **COMPOSITION:** PV cells along the perimeter + sensors in the IGU and DC energy and data grid of connected IGUs
-  **APPLICATION:** windows
-  **BENEFITS:** plug and play system, enhanced user comfort

Stopray Active

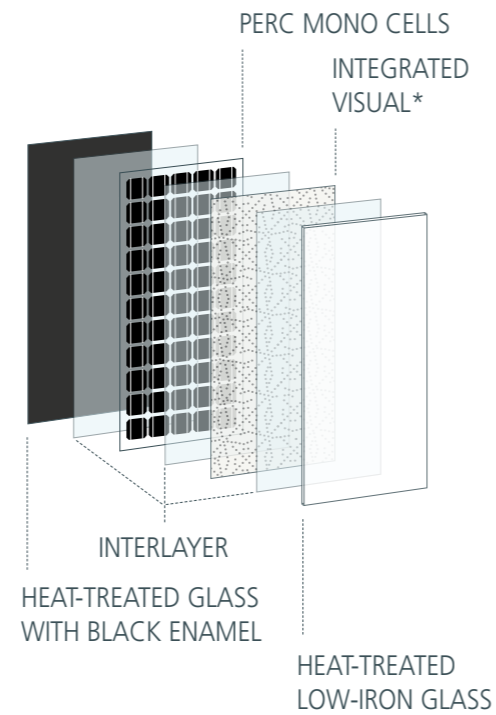
SEAMLESS INTEGRATION






-  **COMPOSITION:** PV-embedded glass combined with Stopray coating
-  **APPLICATION:** spandrels
-  **BENEFITS:** no negative impact on design

Artlite Active

CREATIVE DESIGN



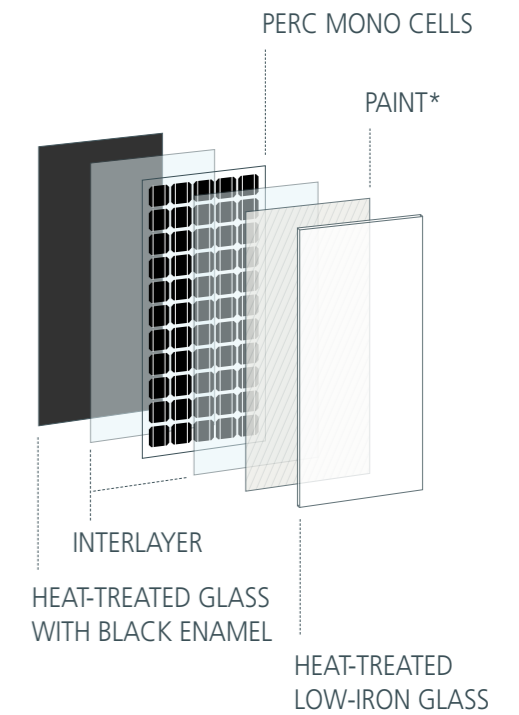
-  **COMPOSITION:** PV-embedded glass combined with pictures and patterns
-  **APPLICATION:** cladding, corporate logos and messaging
-  **BENEFITS:** flexibility in design




in partnership with 

**special energy-transmitting technology*

Lacobel T Active

UNIFORM DESIGN



-  **COMPOSITION:** PV-embedded glass combined with selective transmission paint
-  **APPLICATION:** spandrels and cladding
-  **BENEFITS:** smooth, uniform appearance

**special energy-transmitting technology*

Simplicity of standard design

Artlite Active and Lacobel T Active are also available in standard sizes, colours and patterns.

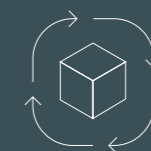
BENEFITS OF THESE SOLUTIONS:

- △ Always available in stock
- △ Fast delivery
- △ Attractive pricing
- △ Available in small quantities



Personalised Support

An experienced AGC Active Glass project manager will be by your side to support you throughout your entire SunEwat project.



Design stage

Glass composition parameters, aesthetically appealing glass module design, ultra-realistic simulation of cells, quick prototyping, ROI calculation.



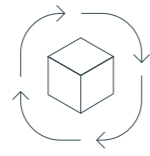
Energy study

Energy performance study, performance target evaluation, comprehensive study to reach NZEB standards.



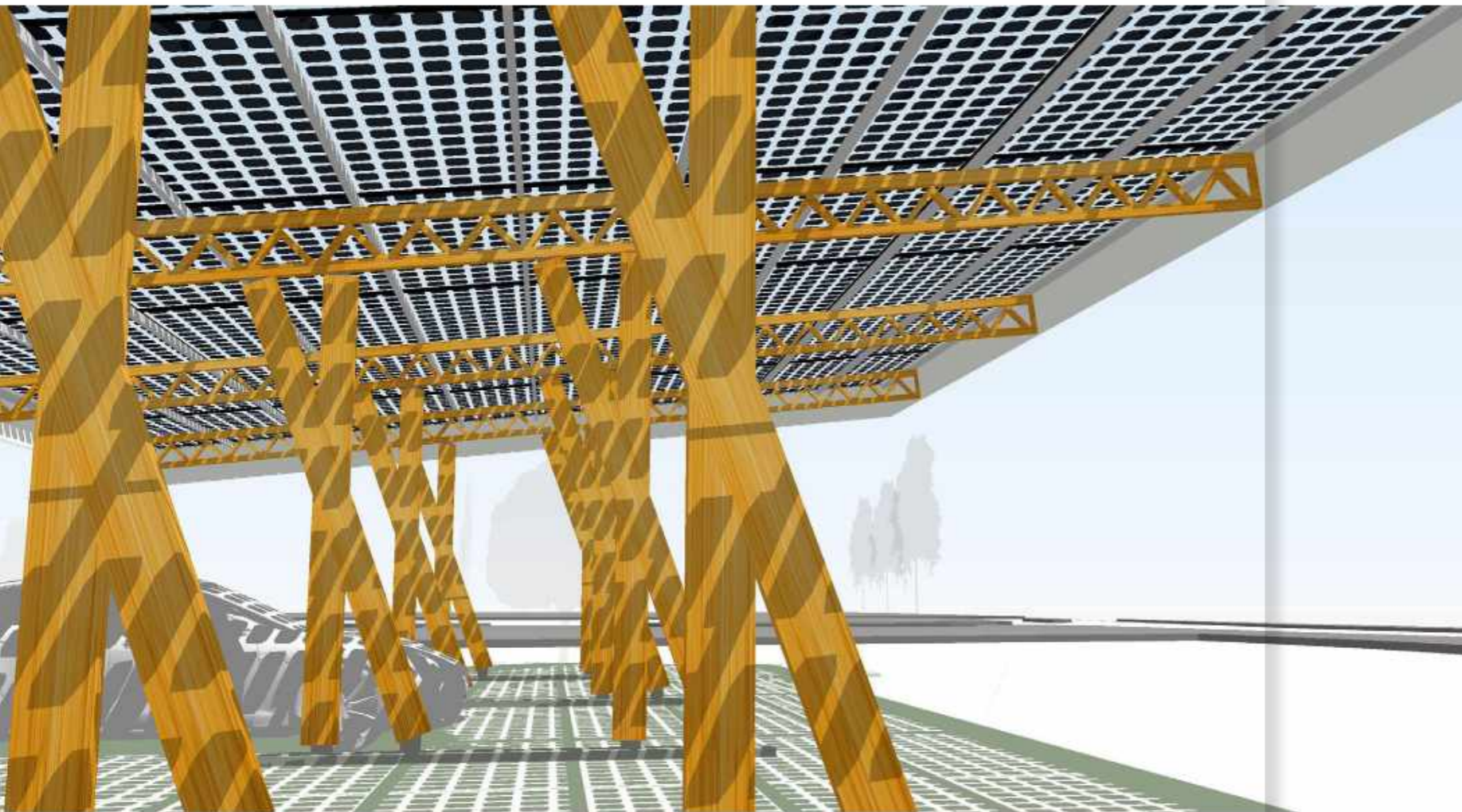
Technical services

Facade integration, full system design, installation supervision, commissioning and monitoring.



Design stage

AGC Glass Europe's virtual prototyping service provides highly accurate predictive image simulations for your project, enabling rapid testing of a large number of different coatings and/or glass products. It can create a fully customised design for spandrel and cladding zones, combining maximum energy generation with superb aesthetics.

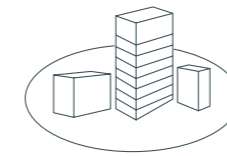


© Project SOLARBOX/TESLA edition, Sunsoak design architects



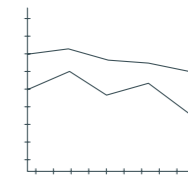
Energy study

New builds and renovation projects: detailed solar study of the facade to define the quantity and type of energy-generating glazing required for the project in order to turn it into an energy-efficient building.



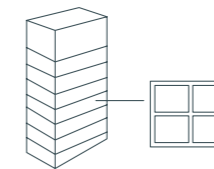
Drawing & Mapping

Drawing and 3D modelling tools are used to conduct a complete solar study.



Data Analysis

Reports are produced detailing how much energy will be generated and saved, and what the impact will be on occupant comfort.



Facade Analysis

Each room and window is analysed for environmental conditions.

About AGC Δctive Glass

AGC Glass Europe is the world's leading producer of flat glass and is the premier worldwide supplier of glass to the building industry as well as a major supplier to the automotive, solar and high-tech sectors.

Active Glass is part of the AGC Glass Europe building and construction division, shaping the future of glass facades with the latest technologies incorporating solar power (SunEwat) and LED optics (Glassiled).

For over 10 years, AGC's Active Glass business unit has been developing and continuously improving LED-embedded and photovoltaics-embedded glass solutions in preparation for the facades of tomorrow. Our team of Active Glass experts comprises technicians, engineers, sales personnel and other professionals. They have extensive experience in active glass solutions, with numerous successful projects completed around the world.

For full description and benefits of the SunEwat product range: www.agc-activeglass.com



Active Glass
shares your passion and
ambition to create iconic
buildings that are sustainable,
smart and energy-efficient.





In 2013, AGC Asia Pacific Pte. Ltd (AAP) was established as the regional headquarters of AGC Group in Singapore. AAP strategically coordinates AGC group businesses in the Asia Pacific region. The regional headquarters manages market analyses and the sales of group products, aiming to contribute to regional societies with advanced products and services relating to people's lives, environment, imaging, communications, and energy. Offices were further established in India and UAE as bases for information gathering and marketing activities in the regions of South Asia, the Middle East and Africa.

In 2017, AAP became one of the Founding Partners of the World Green Building Council's Asia Pacific Regional Network. With the environment being an integral part of the company's values, AAP has since collaborated with Green Building Councils in the network to help realize the positive benefits of green buildings.

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