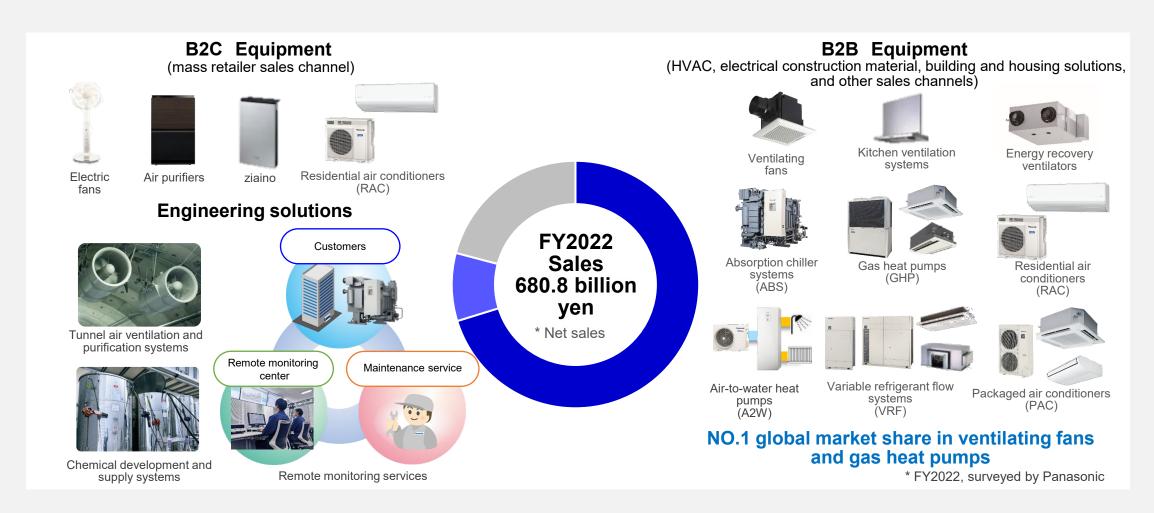
Panasonic

Heating & Ventilation A/C Company

Mid-term Strategy

June 2, 2022

Development, Manufacturing and Sales of Air- and Water-related HVAC Equipment as well as Engineering Solutions



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Global Expansion of Business Opportunities

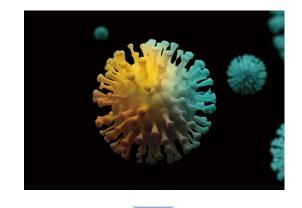
Regulations on CO2 emissions and refrigerant emissions



Resilience



Infectious diseases and air pollution



Productivity improvement



Low GWP refrigerant/ absorption chiller systems (ABS)



Active air purification and humidity control

Digital transformation of construction and maintenance work



Goals

MISSION

Life tech & ideas
For the wellbeing of people, society and the planet

VISION

Leading the industry with air and water technologies that secure a comfortable and sustainable new world



Commitment

Vitalize the Future with Air

These are times of exceptional challenge.

If the world is to move forward confidently, it must overcome the serious threats of the new global pandemics and the degrading of the environment. It must find ways large and small to reduce the stresses that affect people's health and the stability of their communities.

At Panasonic, we're utilizing the power of air to create positive change.

Air that benefits body and mind. Air that energizes the places where people gather to work and play. Air that reduces our burden on the Earth.

With more than a century of research and expertise to guide us, we're using air to open a more hopeful and vital future for all.



Three Values Provided Together with Customers and Partners

Three values Sustaining the planet with air Promoting wellbeing with air Energizing lifestyles with air Property Contribution to implementing Provision of a better air environment to Contribution to labor-saving and owners / environmental management and fulfilling improvement of safety and productivity in residents and contribution to increasing construction and maintenance work Contractors social responsibilities property value Contribution to improving physical and Contribution to reducing environmental Contribution to creating clean spaces, mental health, intellectual productivity, End-users sterilization, and antivirus measures impact and vitality



Actions to Meet the Panasonic Corporation's Target for Reducing CO₂ Emissions by FY2031

(FY2023-2025 GREEN IMPACT promotion 90billion yen or more)

Reducing CO₂ emissions from our company

[Scope1&2]

- Virtually zero CO₂ emissions at overseas bases by FY2028
- Virtually zero-CO₂ emissions at all bases including domestic by FY2031

[Scope3]

Individual products

- Acceleration of the shift to inverter for RAC and PAC
- Penetration of ceiling and ventilating fans equipped with DC motor

Refrigerants

 Acceleration of the shift to the environmentally friendly refrigerants in anticipation of environmental regulations in each country

Contribution to society by reducing CO₂ emissions

- Optimal control based on unit coordination, integrated systems, and sensing
- ·A2W and heat pump water heaters for heat source shift
- •Distributed energy business (e.g., use of waste heat for ABS with water refrigerant and low power consumption)

Apply



Waste heat from gas cogeneration systems + ABS

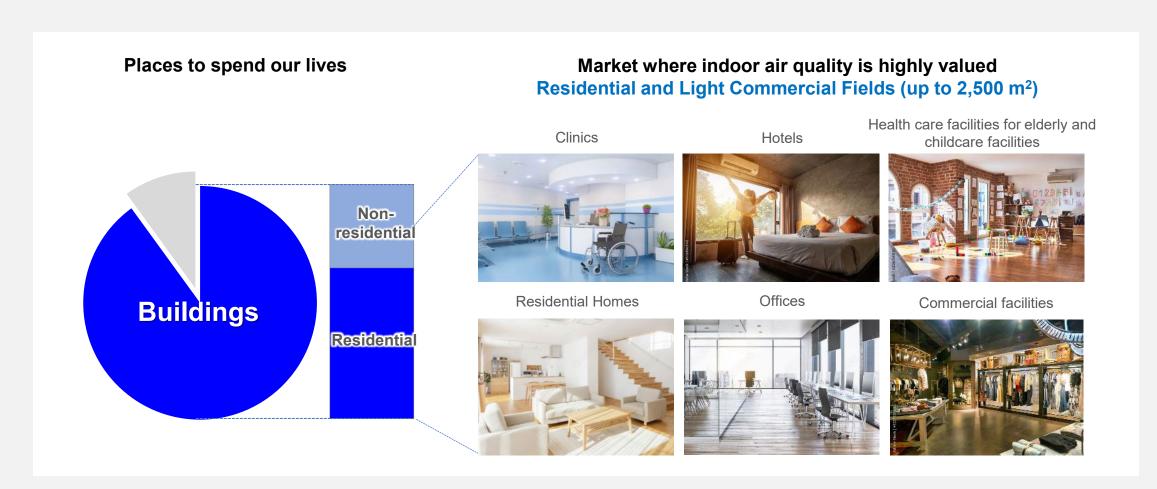


Ueno Village Mushroom Center

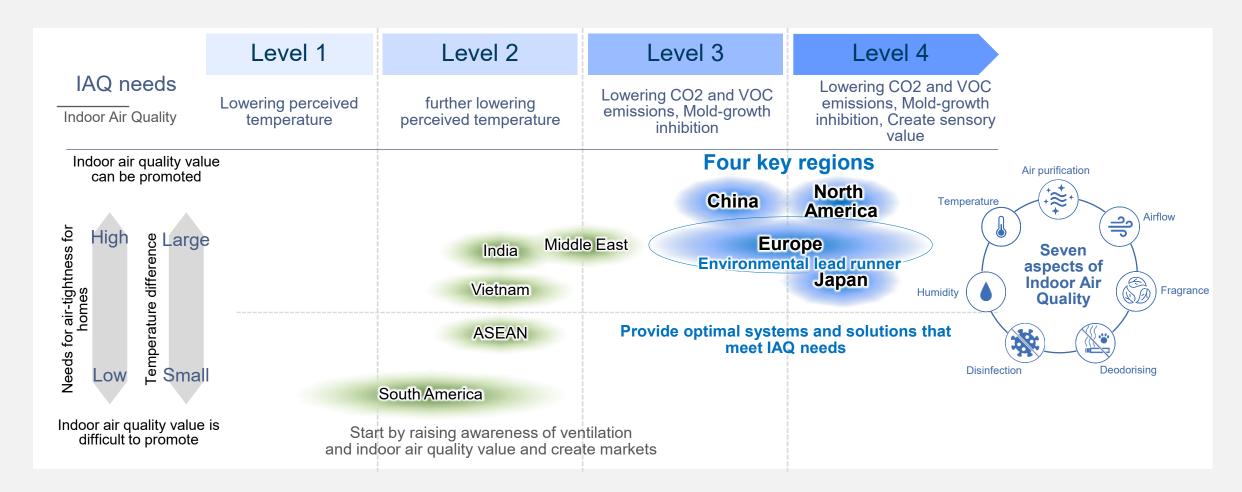
Waste heat from biomass cogeneration systems + ABS



Placing Emphasis on Residential and Light Commercial Fields



Driving Business Growth in Four Key Regions Where Indoor Air Quality Is Highly Valued





Creating Three Values by Realizing Virtuous Cycles for Customers, Partners, Panasonic and **Become the Best in Class Company by FY2030**

Sales: 1,000 billion yen

EBITDA: 10% or more

Establishing a competitive advantage in air quality and carbon-free areas, **Restructuring business foundations**

■ Upfront investment: 100 billion yen or more *FY2023-2025 total

1. Environmental technology innovation: 30 billion yen

2. Strengthening of ongoing customer contacts: 28 billion yen

3. Operational reforms: 46 billion yen

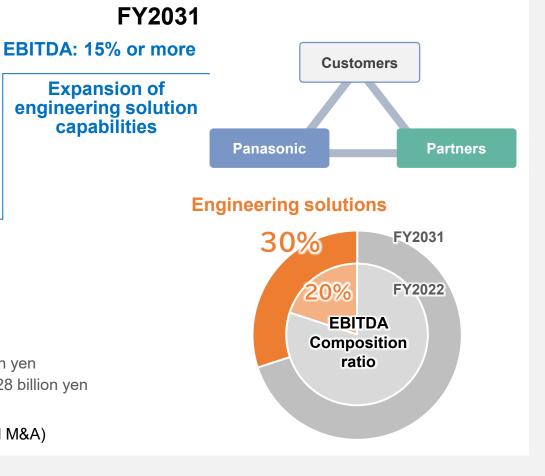
■ Acquisition of deficient infrastructure (alliances and M&A)

FY2026

FY2022

Sales: 680.8 billion yen

EBITDA: 5%



1. Environmental Technology Innovation

Game-changing HVAC System Different from Conventional Heating, Ventilation, and Air Conditioning

Creating a HAVC system that realizes outstanding improvement in air quality and reducing CO2 emissions





Humidity control and water purification

Centrifugal crushing humidification

Salt-free water softener





Advantages in reducing maintenance needs

Active purification



In addition to passive air purification functions,

the entire space can be purified

by inhibiting the growth of airborne and adhered bacteria and virus

Shift to low-GWP refrigerants and high energy efficiency

Rotary and injection High-efficiency technology brushless motors

High -efficiency heat exchangers









Outstanding advantages in reducing CO2 emissions

Visualization and standardization of air quality value

Verification of reliable evidence (Effects in actual usage)



IAQ Validation Centre

Obtaining certification and standardization

(Collaboration with local partners)

Next-generation space sensing (Virus and vital data)

Algorithm for coordinated control

2. Strengthening Contacts with Continued Customers

Creation of new solutions with customers and partners

Enriching engineering resources

FY2022 → FY2026

Number of engineering resources (Japan and Europe)

790 → **1,100**

(x 1.4)



Closer ties with the EW and CCS Companies

Collaboration with other companies and M&A

Europe

systemair Schneider
CCS•EW companies

other companies

North America

CCS Company other companies

China

SAIVES 6
EW Company
other companies

Japan

EW·CCS companies other companies

Co-creating spaces for solution ideas



YADA×Panasonic showroom (Opened in July 2021)



Shiodome P-BOX (Opened in April 2022)



Nihonbashi AIR HUB TOKYO (Opened in June 2022)

Expansion of engineering training centers



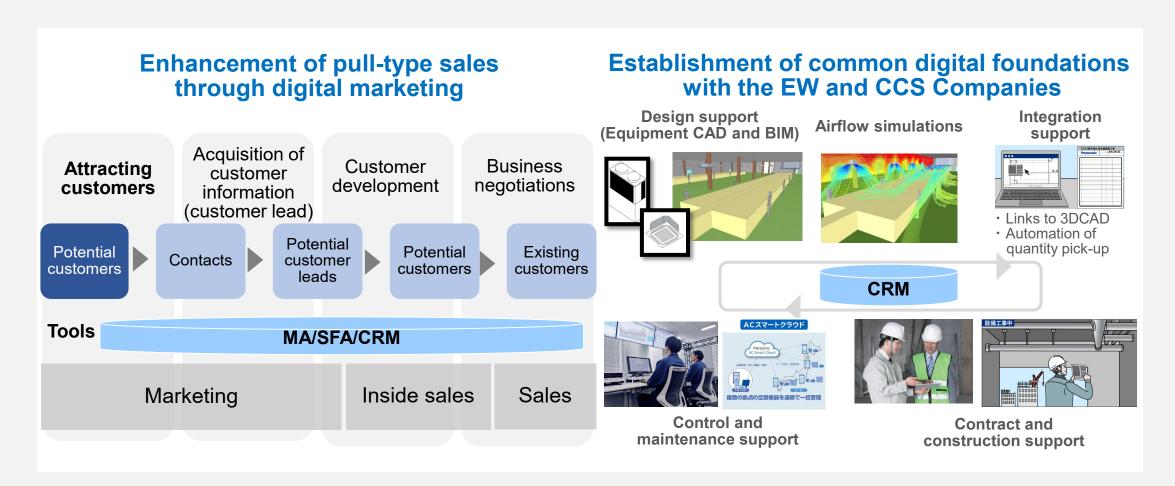
Europe HQ in Germany (Opened in October 2021)



Lab. In Malaysia (Opened in July 2022)

2. Strengthening Contacts with Continued Customers

Streamlining operations and providing Panasonic's unique solutions

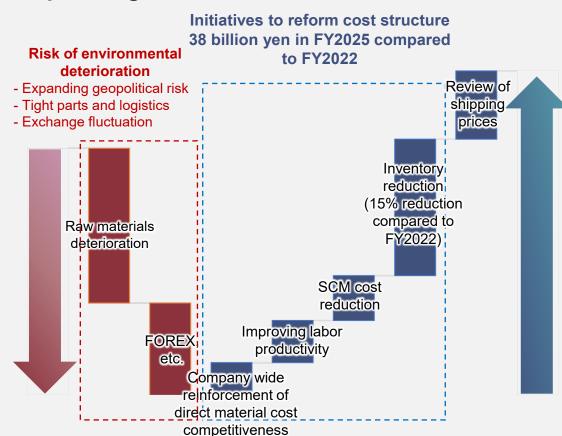




3. Operational reforms

Build a management base that overcomes changes in the environment and promotes DEI by strengthening the local operation system

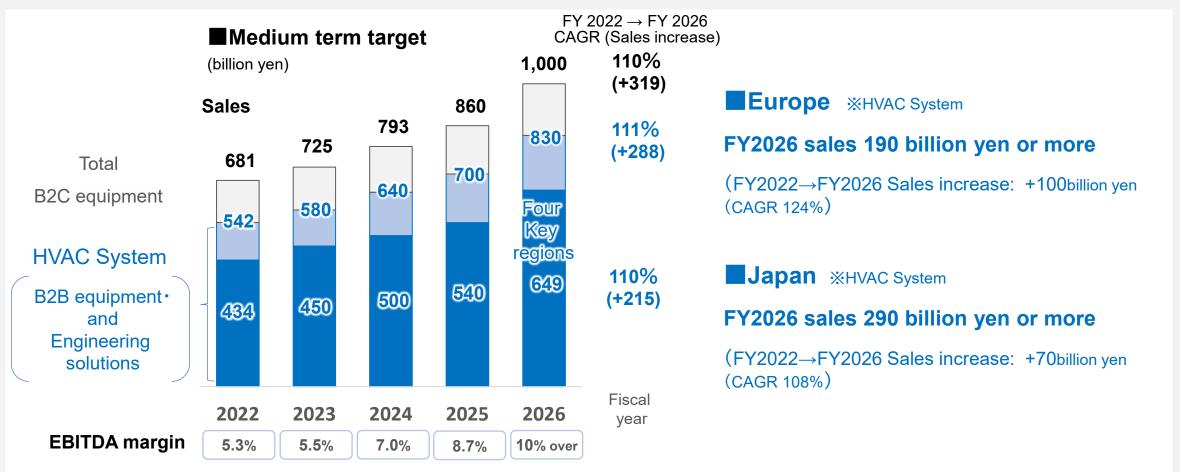
Operating cash flow from FY2022 to FY2025



- Revitalize global human resources (Acceleration of DEI promotion) and speed up management by strengthening regional management system
- Global human resource development and expansion of local-led operations by strengthening the regional promotion system
 - Strengthening production of indoor and outdoor unit Air To Water (Product supply lead time -60% reduction)
 - Strengthening production of ventilation fan (Product supply lead time -70% reduction)
- In addition to strengthening career recruitment, building a system and fostering a corporate culture that makes the most of diverse human resources
- **■** Improvement the efficiency of manufacturing operations
- Production automation in China and Malaysia
- Expanding shared design and digitizing development for Local fit and development efficiency
- Company-wide reinforcement of direct material cost

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FY2026 Sales Target of 1,000 Billion Yen by Expanding HVAC System & Engineering Solution Sales





Expanding European business with A2W as breakthrough, Where Environmental Awareness is the Highest

■ Market share (A2W (Air To Water Heat Pump))

* FY2022, surveyed by Panasonic

A2W has a high market share mainly in Northern and Eastern Europe.



Advantages

Unique environmental technologies

Active purification, humidity control, saltfree soft water. and low-GWP refrigerants

Sales and engineering infrastructure

HVAC EU: Approx. 400 personnel Started subscription CRM

Partners



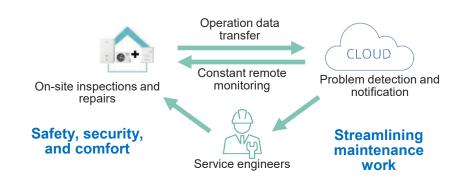
Expansion of A2W to drive business in Europe (FY 2022 → FY 2026 CAGR: +125%+)

Broadening the lineup of environmentally friendly products to contribute to decarbonization and air quality improvement

- Swiftly introduce a range of products that meet the stricter refrigerant regulations scheduled in 2025.
- Link A2W and air quality products to provide value

Expansion of the A2W maintenance solution business

- Establish a maintenance solution business in Denmark
- Reach more dominant positions in regions where we have high market share through the promotion of the solution business

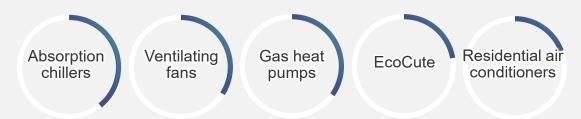


Develop Systems and Engineering Solutions that will Support the Optimization of Seven Aspects of Indoor Air Quality and Decarbonization

■ Market share

* FY2022, surveyed by Panasonic

High market shares in wide range of HVAC categories



■ Advantages

Unique environmental technologies

Active purification, humidity control, low-GWP refrigerants, and sensing

Sales/Engineering infrastructure

Engineering business revenue: Approx. 170 billion yen

* Including equipment sales and cold chains

Partners

Electric Works Company

Cold Chain Solutions Company

Expand the engineering solutions business by increasing CAGR by 110% or more from FY2022 to FY2024.

Sales expansion of systems that link heating, ventilation, and air conditioning functions

- Systems for the light commercial field that ensure high air quality and a maximum energy saving of 52%



- Whole-house air conditioning and ventilation systems contributing to free space designs and zero emission house

Engineering solution optimizing seven aspects of indoor air quality

humidification

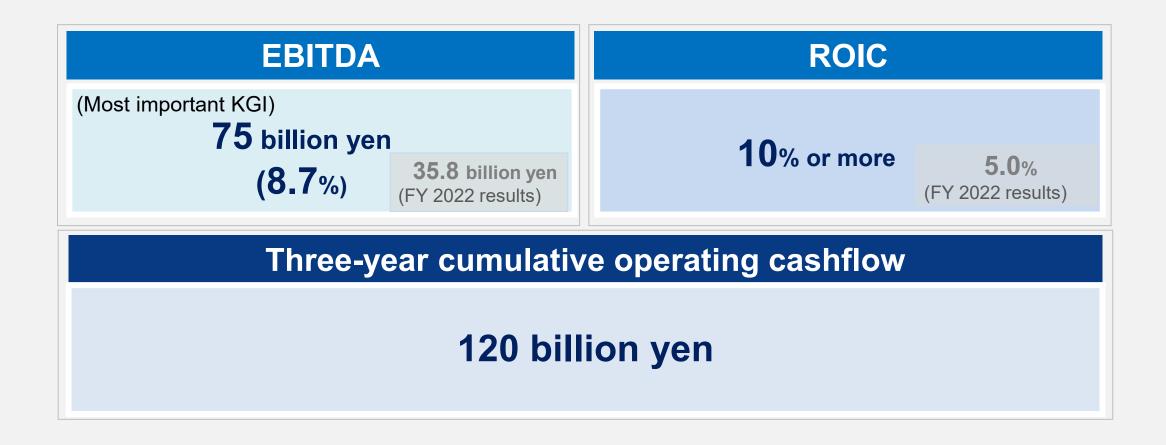
Flexible control of the seven indoor air quality aspects in closed, open, and other types of spaces (Reboot Space)







Fiscal 2025 KGIs





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