



AIC*tech*

AIC tech Inc.

Company information

Corporate Vision

We, at AICtech, are committed to providing satisfaction to our customers with superior products and valuable services for the future society through innovative technologies.

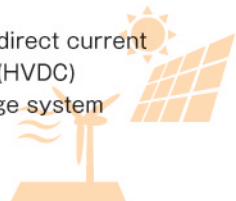
Business Fields

Our capacitors have a strong presence in the power electronics applications, which are an essential part of realizing Society 5.0*.

*Society 5.0 is a concept for the future society proposed by Japan, which will be realized by incorporating innovative technologies such as AI, IoT, robots, and big data into all industries and society.

Power and energy (Generation, transmission, and storage)

- Solar power (mega solar)
- Wind power generation (onshore, offshore)
- High voltage direct current transmission (HVDC)
- Energy storage system



Industry (Industrial, Energy Saving)

- Industrial robots, machine tools, conveyors
- Semiconductor manufacturing equipment
- Heaters, welders, dryers machines, and drying equipment
- Pumps and compressors
- Cranes, fans, etc.



Transportation, transport, and urban facilities

- Rail vehicles (driving systems, air conditioners, door control, etc.)
- Electric vehicles and charging infrastructure
- Ports, ships
- Elevators, escalators, and automatic doors
- Lighting, air conditioning, power receiving equipment, water supply and drainage, firefighting equipment, etc.



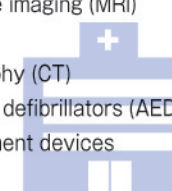
ICT and IoT

- Datacenters (servers, uninterruptible power supplies, etc.)
- 4G and 5G communications base stations



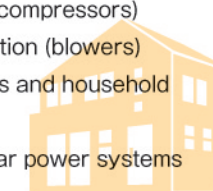
Healthcare (Treatment and testing)

- Radiotherapy systems
- X-ray systems (stationary, for rounds)
- Magnetic resonance imaging (MRI) systems
- Computed tomography (CT)
- Automated external defibrillators (AEDs)
- Various laser treatment devices



Lifestyle (Society and daily life)

- Public water supply equipment (pumps)
- City gas (LNG compressors)
- Waste incineration (blowers)
- Air conditioners and household appliances
- Residential solar power systems



Our Products

Our products are capacitors for power electronics and metalized films for various applications.



Technologies

We provide solutions and innovations to our customers with our superior technologies.



Aluminum electrolytic capacitors

Aluminum electrolytic capacitors are our flagship products with a history of 70 years. These are used in many power electronics devices such as inverters, DCDC converters, and various power supplies in Japan and overseas.



Film capacitors

Our film capacitors are specifically designed for high voltage and high current applications. DC and AC capacitors are available.

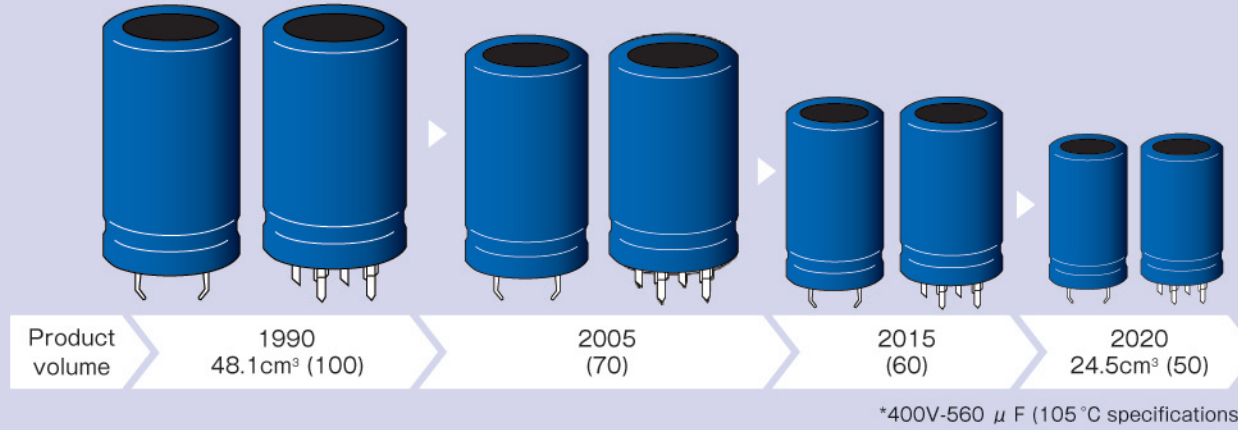


Metalized films

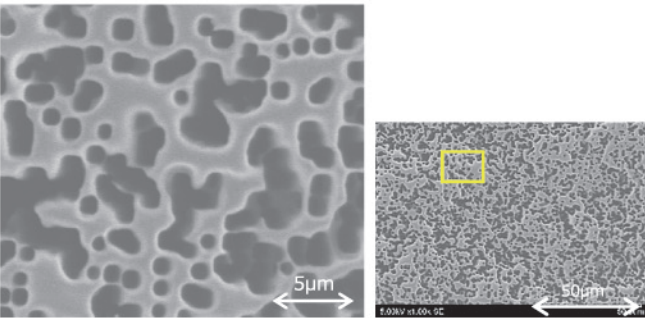
Metalized films are coated with a thin layer of metal on polymer films. Due to their reflective, light-shielding, thermal insulating, and lightweight properties, metalized films are widely used for agricultural purposes, heat insulation for houses, food packaging, etc.

Miniaturization of snap-mount aluminum electrolytic capacitors

Over the past 30 years, we have successfully reduced the size of capacitors by 50% and have helped our customers reduce the size of their equipment.

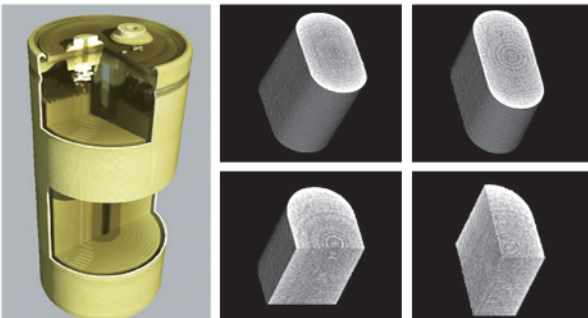


Our superior fundamental technologies

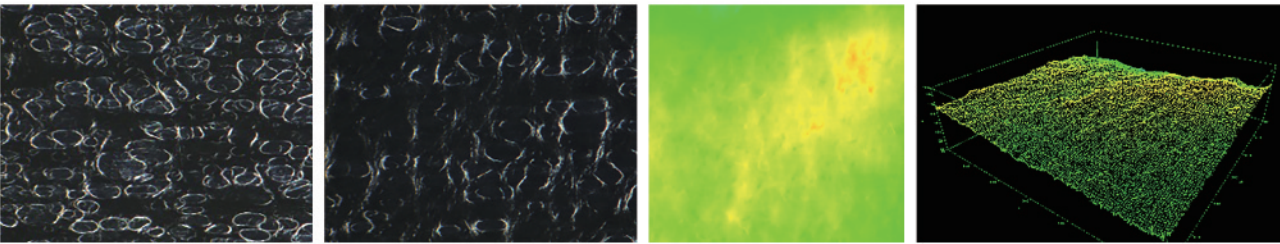


SEM* images of the aluminum capacitor's electrode
*SEM: Scanning Electron Microscope

It is an important fundamental technology to obtain larger capacitance by increasing the surface area of the electrode.



CT analysis
We are using the latest technology to improve quality from multiple perspectives.



Surface analysis of capacitor films

It is very difficult to observe the surface of an ultra-thin and transparent capacitor film, which is only a few microns thick, but we have made this possible with our unique technology.

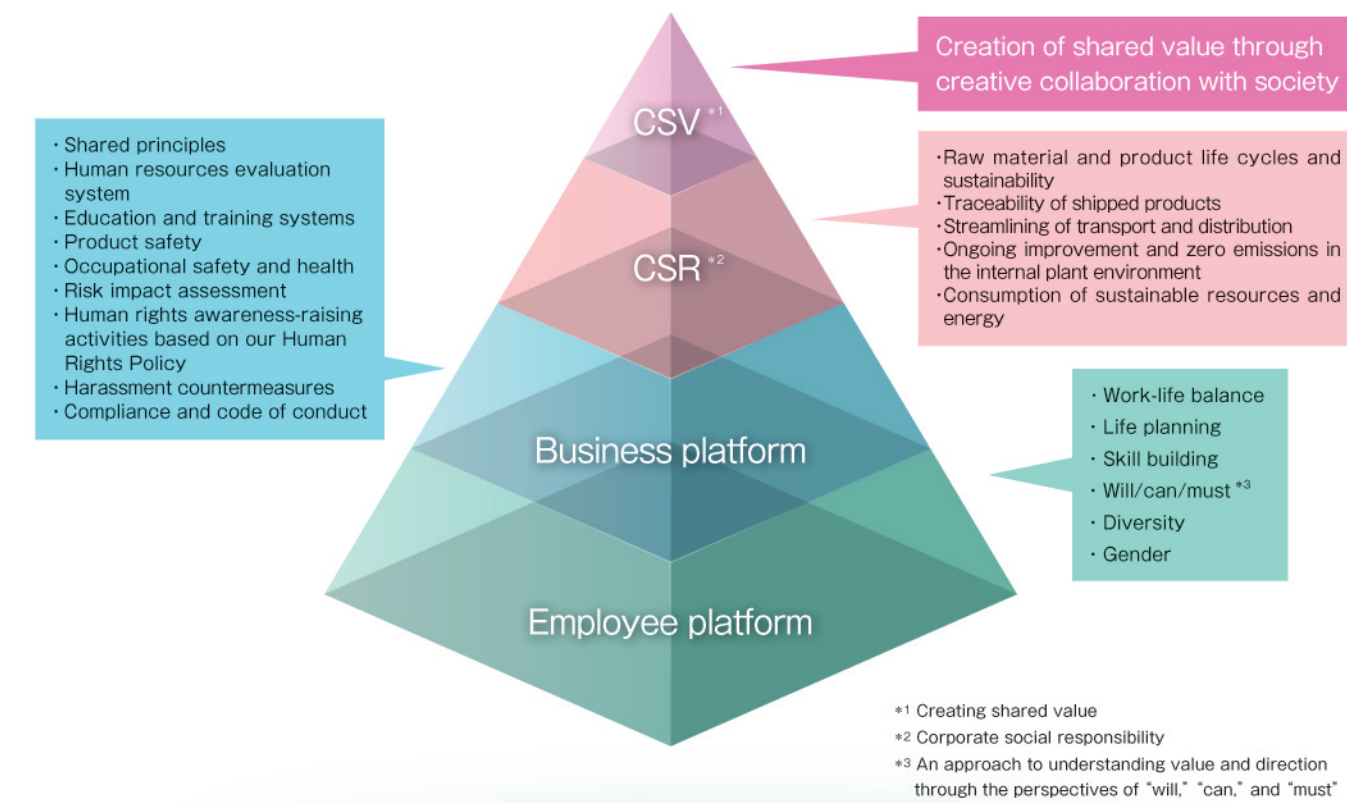
Network

We deliver our products from two facilities in Japan and five facilities overseas.



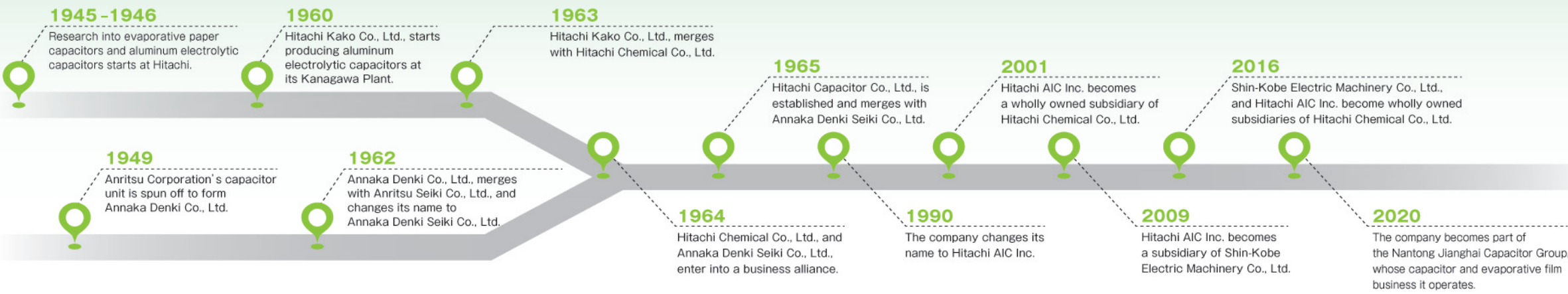
Environment and corporate social responsibility

We will operate our business responsibly as a member of society with respect to local communities, stakeholders, and the environment. We will also aim to enhance our corporate and social value that can be shared through collaborative creation with society.



History

Our products have a history of more than 70 years and have their origins in technological development in Japan.



AICtech

AIC tech Inc.

Website ▶ www.aictech-inc.com/

