# Company Presentation and Business Overview Sustainability Initiatives

August 23, 2021



# **Company Profile**

Name

Head Office

## Industry-leading manufacturer of environmental test chambers

ESPEC CORP.

3-5-6, Tenjinbashi, Kita-ku, Osaka

Representative Masaaki Ishida

Established July 25, 1947

Incorporated January 13, 1954

Paid-up Capital ¥6,895 Million

Issued shares 23,781,394 Shares

Employees 1,526 (consolidated)



**Head Office** 

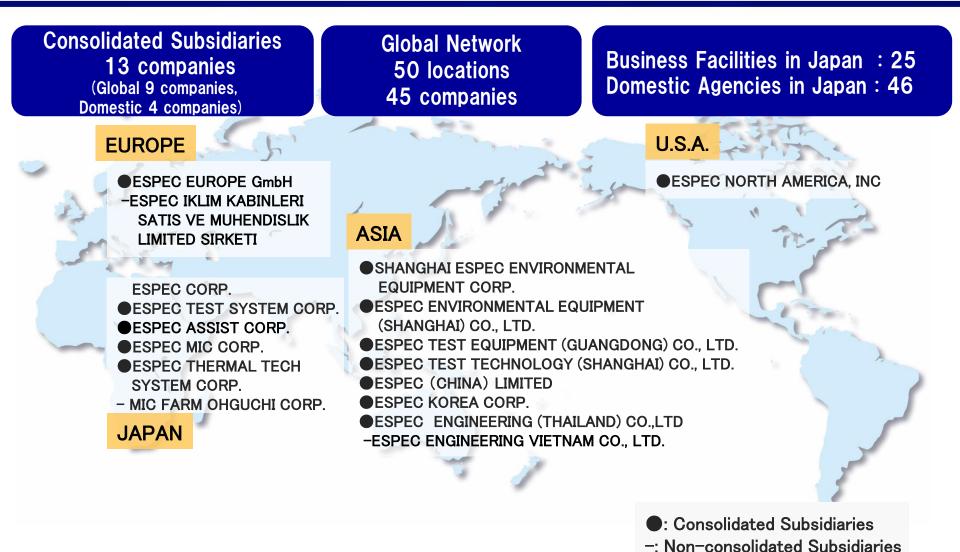
Main Business Manufacture and Sales of Environmental Test Chambers, Energy Device Equipment, Semiconductor Equipment and Plant Factory. After-sales Service, Laboratory Testing Services and others.

Share of Environmental Test Chambers:

Over 30% worldwide, Over 60% domestic

<sup>(</sup>As of March 31,2021)

# **Global Network**



## Summary of ESPEC Business (Per Market / Use)

		Main Products	Market	Use	Sales Composition (FY2020)
Equipment Business	Environmental Test Chambers	<ul> <li>Temperature &amp; humidity chamber</li> <li>Thermal shock chamber</li> <li>Bench-top type temperature &amp; humidity chamber</li> <li>HAST chamber</li> <li>Walk-in type temperature &amp; humidity chamber</li> <li>Combined temperature &amp; humidity chamber</li> <li>HALT &amp; HASS test chamber</li> <li>FPD equipment</li> </ul>	<ul> <li>Electronic component and equipment market</li> <li>Automobile market</li> <li>Semiconductor market</li> <li>Medicine, Cosmetics, Foods market</li> <li>LCD and Organic Electro- Luminescence market</li> </ul>	<ul> <li>For R &amp; D</li> <li>For credibility and evaluation</li> <li>For production and inspection</li> </ul>	79%
	Energy Device Equipment	<ul> <li>LIB charge-discharge cycle evaluation equipment</li> <li>LIB safety evaluation system</li> <li>Fuel cells evaluation system</li> </ul>	<ul> <li>Next generation automobile market</li> <li>Secondary batteries market</li> <li>Fuel cells market</li> </ul>	<ul> <li>For R &amp; D</li> <li>For credibility and evaluation</li> <li>Safety evaluation</li> <li>For production</li> </ul>	
	Semiconductor Equipment	<ul> <li>Burn-in system</li> <li>Semiconductor evaluation system</li> <li>Instrumentation system</li> </ul>	<ul> <li>Semiconductor market</li> <li>Automobile market</li> </ul>	<ul> <li>For production and inspection</li> <li>For development and evaluation</li> </ul>	
Service Business	After-sales Service and Engineering	After-sales service     Construction around equipment	<ul> <li>Electronic component and equipment market</li> <li>Automobile market</li> <li>Semiconductor market</li> </ul>	-	16%
	Laboratory Testing Services and Facility Rentals	<ul> <li>Laboratory testing services •Resale</li> <li>Equipment rental •Calibration</li> </ul>		•For R & D •For credibility and evaluation	
Other Business	Environmental Preservation	Reforestation (Tree planting), Waterfront biotope restoration, Urban greening			5%
SS.	Plant Production Systems	Plant factory, Equipment for growing plants			

# **History of Environmental Test**

### What is Environmental Test

Test to analyze and evaluate effects of environmental factors such as temperature, humidity, pressure, and light on various industrial products like electronic components in order to ensure product quality.

#### <1950s>

The environmental test was JIS standardized in Japan for consumer products.



<1970s-1990s> "Reliability" and "quality control" became important issues in product development. Demand increased dramatically due to a rapid shift toward computerization and the use of electronic components.





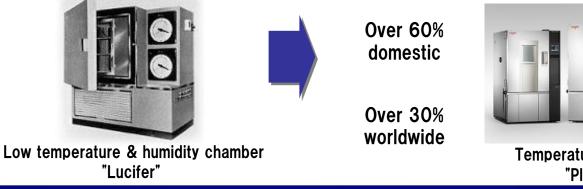


<the Present> Demand is expanding in 5G and IoT field, also the development field of automobiles' electrification and automated driving functions.



1961 Japan's First Environmental Test Chamber Worldwide Market Share No.1

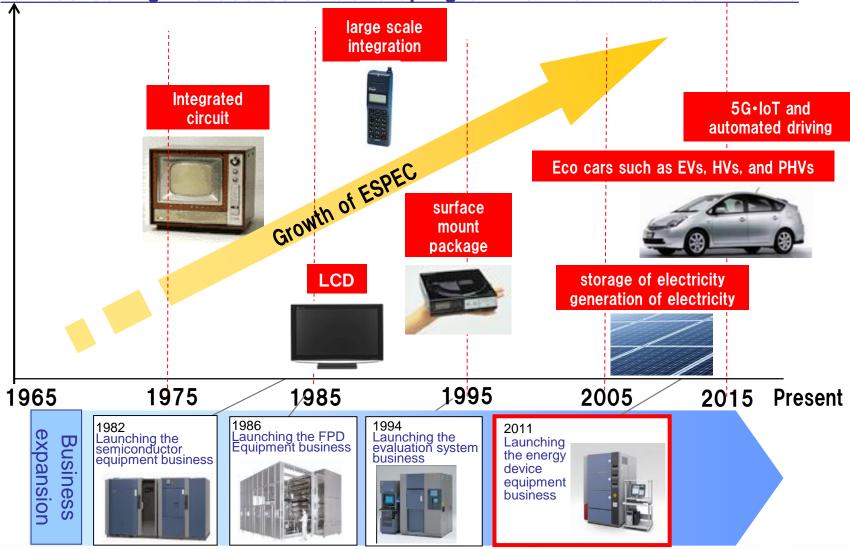
Consecutively selected as a winner of Ministry of Economy, Trade and Industry (METI) "Global Niche Top Companies Selection 100"



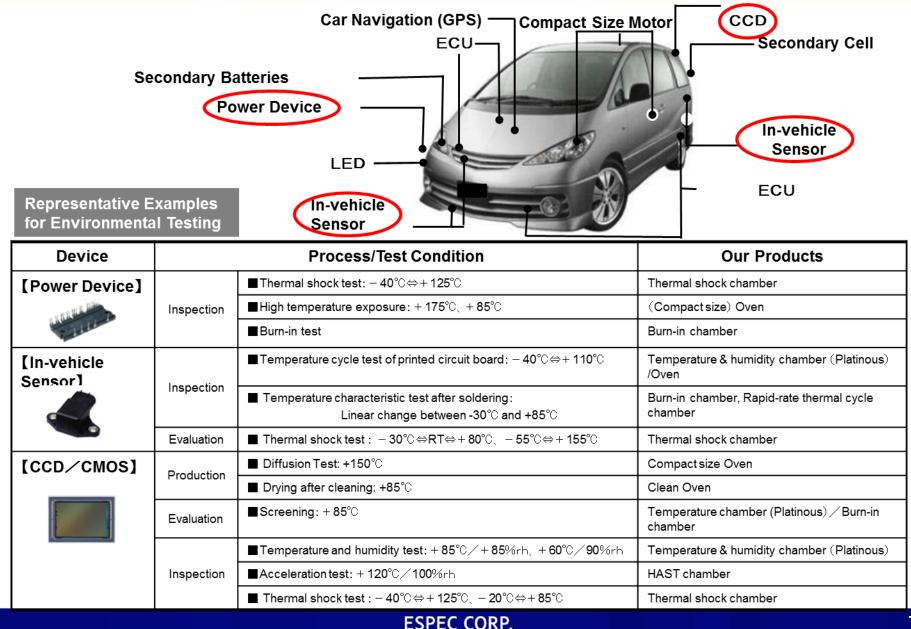
Temperature & Humidity Chamber "Platinous J series"

## **Transition in Business**

Expanding business based on the "environmental creation technology" refined during the course of developing environmental test chambers



## [Equipment Business] Usage Case with Environmental Test Chambers



# [Equipment Business] Main New Products

Release Date	Name of product	Features
Jun. 2021	Ultra-Low-Temperature Freezers	<ul> <li>Used for small lot storage to -75℃ for items such as COVID-19 vaccines</li> </ul>
Apr. 2021	Freezer for Temperature Controlled Transport	<ul> <li>Optimal for small-lot transport and storage of items such as COVID-19 vaccines</li> <li>Vibration resistant, energy efficient and portable</li> </ul>
Feb. 2021	Vacuum low-temperature heating cooker - model change	•Enables precise control of not only temperature but also the degree of vacuum
Aug. 2020	Expanded Environmental Stress Chamber AR Series Lineup	<ul> <li>Launched four new models as rapid-rate temperature cycle type products, bringing the total lineup to 32 models across the series</li> </ul>
Mar. 2020	Transportation Evaluation System	<ul> <li>Recreates transport environments for pharmaceuticals and medical devices</li> <li>Applications in biopharmaceutical R&amp;D and medical equipment quality control</li> </ul>
Feb. 2020	Walk-In Type Temperature (&Humidity) Chamber for Drive-In Series	<ul> <li>Recreates various weather environments in a large space accommodating two vehicles</li> </ul>
Feb. 2020	Walk-In Type Temperature (&Humidity) Chamber for High-Power Series	•Complies with international IEC standards and German automobile industrial standard
Dec. 2019	Thermal Air Test System	•Materials testing is possible under actual use conditions such as in vehicles through combinations of various types of material testing equipment
Dec. 2018	Aging Cabinet	•There is no temperature rise due to defrosting, and long-term continuous operation of high humidity environment is possible while maintaining below 5 $^{\circ}$

# [Equipment Business] New Product Introduction (1)

Walk-In Type Temperature (&Humidity) Chamber for High-Power Series

### <Features>

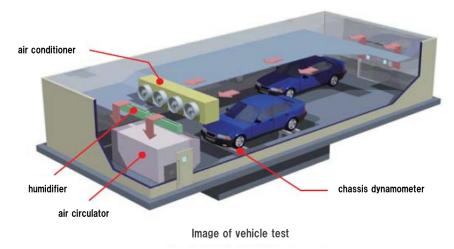
•Compliant with IEC International Standards and German Automotive industry standard LV124 (Can perform rapid temperature change testing of samples at 3K/minute)

•Low GWP coolant (R-449A) as standard equipment

■ Walk-In Type (Released in Feb. 2020) Temperature (&Humidity) Chamber for Drive-In Series

### <Features>

- •Closely recreates various weather environments in a large space of approximately 500 m accommodating two vehicles to perform actual vehicle testing
- •Multiple environmental factors can be recreated simultaneously, including humidity, sunlight, rain, snow, fog, and wind



Walk-In Type Temperature (&Humidity) Chamber for Drive-In Series



Walk-In Type Temperature (&Humidity) Chamber for High-Power Series

## [Equipment Business] New Product Introduction (2)

#### For the medical field

(Released in Feb. 2020)

### Transportation Evaluation System

### <Features>

Enables simultaneous recreation of temperature and vibration environment during transport to test medicine, etc. in actual transportation environment
Two models of equipment for biopharmaceutical and reagent R&D application and medical equipment quality control application

#### For material field

(Released in Dec. 2019)

### Thermal Air Test System

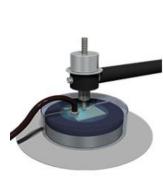
### <Features>

Can be combined with various materials testing instruments to perform materials testing in actual usage environment with given temperature
Uses ESPEC's proprietary new method for cooling and heating test pieces efficiently





2 models of Transportation Evaluation System





Example of set up with friction and wear testing machines and hardness meter (Left) Thermal Air Test System (Right)

## [Equipment Business] Examples of Products Delivered (1)

(Delivered in Jul. 2018) Delivery examples of temperature (& humidity) chambers, test chambers for use for building materials

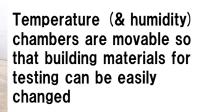
#### Uses

Reproduce the environment inside apartments (temperature and humidity) and outdoors (weather such as rain, snow, and solar radiation), conduct performance evaluations and durability tests of building materials for sash, balcony, etc.



Temperature (& humidity) chambers, test chambers for use for building materials







Furnished with irradiation equipment and watering (rain) equipment, to reproduce an outdoor weather environment

## [Equipment Business] Examples of Products Delivered (2)

Smart System Research Facility, Fukushima Renewable Energy Institute, AIST (Koriyama city, Fukushima)

#### **Product delivered:**

Large walk-in type temperature & humidity chamber

#### Uses:

Performance and safety evaluation for large power conditioners for solar power generation Supports heat generation loads of 100 kw and large weights (21 tons)



Large walk-in type temperature & humidity chamber

(Delivered in Mar. 2016)

National Laboratory for advanced energy storage technologies (NLAB), National Institute of Technology and Evaluation (Nanko, Osaka City)

Product delivered:

- 1.Walk-in type temperature & humidity chamber for chargedischarge testing
- 2.External short-circuit testing equipment (energy devices equipment)

#### Uses:

- 1. Evaluate the performance of storage batteries by repeatedly charging and discharging them
- 2.Evaluate safety by confirming that storage batteries will not catch fire or rupture if they short circuit



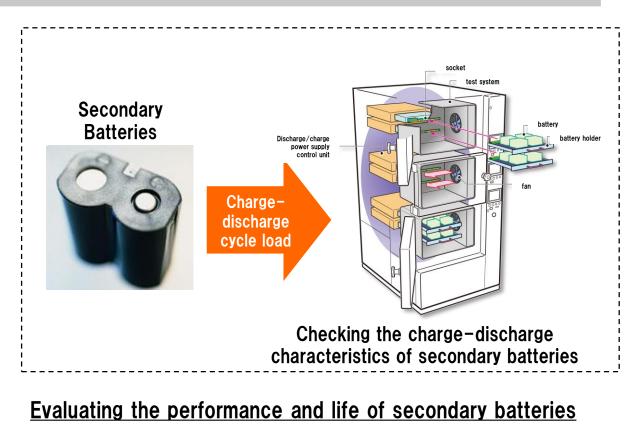
Walk-in type temperature & humidity chamber for charge-discharge testing

### Charge-discharge Cycle Evaluation Equipment

Equipment for ensuring the reliability and safety of lithium-ion secondary batteries for next-generation vehicles (e.g., hybrid and electric vehicles)



Charge-discharge Cycle Evaluation Equipment



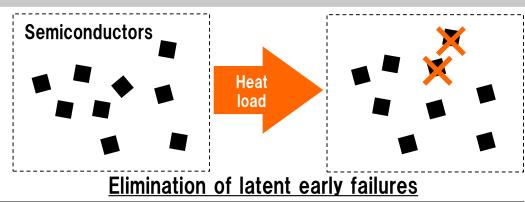
## [Equipment Business] Usage Case with Semiconductor Equipment

### Screening

Eliminate defective products to maintain initial-period quality at the final inspection stage of semiconductor device manufacturing



Burn-In chamber



## **Reliability Evaluation**

Used to evaluate basic failure patterns to ensure reliability in the development of new technologies



## [Service Business]

### After-Sales Service and Engineering

Preventive maintenance of products, maintenance service, and the upgrading/improvement and installation/relocation of products

- Speedy response via one of the most extensive networks in Japan
- Launching new services by utilizing the network function mounted in the equipment

## Laboratory Testing Services and Facility Rentals

Laboratory testing, analysis, and evaluation; consulting; equipment rental; sales of used products; calibration of test equipment, etc.
The company has four laboratory testing centers in Japan, one in Thailand, two in China.

(Japan: Utsunomiya, Toyota, Kariya and Kobe, Thailand, China: Shanghai, Suzhou)

- •The centers are also recognized as official calibration facilities under the Japan Calibration Service System (JCSS).
- First in world] Opened Battery Safety Testing Center. (in September 2015)
- Providing a one-stop service for testing and certification application services compliant with United Nations regulations on the safety of automotive rechargeable batteries.
- Entered into business alliance with TÜV SÜD Japan Ltd., a third-party certification agency (in October 2014)



**Battery Safety Testing Center** 

- [First in Japan] Acquire ISO/IEC 17025 test facility certification simultaneously in the three fields of automobiles, trains and airplanes
- [First in Japan] the Toyota Test Center provides one-stop services for testing LV 124, the German Automotive Manufacturer Testing Standards

\* ISO/IEC 17025: An international standard in which an authoritative third-party organization certifies whether a test facility or calibration organization is capable of producing accurate measurements or calibration results

## [Service Business] After-Sales Service

### "Home-based online service"

## to support continuity of customers' development operations

#### When using ESPEC products

Operate equipment and monitor samples from home

- •Centralized management (monitoring and data analysis)
- Receive operating status by email
- •Monitor samples using in-chamber monitoring camera (launched in March 2020)

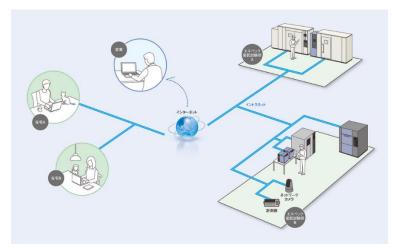


Image of in-chamber monitoring camera

### When using laboratory testing center

All testing operations performed on behalf of customer, from start to finish, including transportation

- Remote consultation
- •No need to attend in person
- Remote instruction



## [Service Business] Laboratory Testing Services

First in Japan to realize 100% green electricity for laboratory testing services Contributing to the reduction of CO<sub>2</sub> emissions in customers' supply chains

We introduced renewable energy and became first in Japan to realize 100% green electricity for laboratory testing services in April 2021. We expect to reduce annual CO<sub>2</sub> emissions by approximately 4,187 t.

<Laboratory testing centers in Japan>



Kobe Test Center



Utsunomiya Test Center

**Toyota Test Center** 



**Battery Safety Testing Center** 

Kariya Test Center



## [Service Business] Laboratory Testing Services

### World's first Battery Safety Testing Center compliant with United Nations regulations

Providing a one-stop service to support the implementation of 9 safety tests and applications for certification by certification agencies, as stipulated by UN ECE R100-2. Part II, a United Nations regulation.

(The facility was opened within the Utsunomiya Technocomplex in September 2015.)



Crush Testing Equipment (No. 1 Safety Test Room)



No. 2 Safety Test Room

First testing facility in Japan to address the German Automotive Manufacturer Testing Standards Renovated the Toyota Test Center

Supporting Japanese automotive equipment manufacturers seeking to develop global operations by addressing all test items set forth by the LV124 German Automotive Manufacturer Testing Standards (Renovated the Toyota Test Center in September 2019)



**Toyota Test Center** 

# [Other Business]

### **Environmental Preservation**

Reforestation (Tree planting)

Recovery of local forest by selecting species and planting out seedlings using potential natural vegetation data.

Waterfront biotope restoration

Reconstruction of natural environment, development of vegetative revetments, and water quality improvement using aquatic plants.

#### Urban greening

Provision of roof and wall greening systems that use moss to effectively alleviate heat island effect.

### Plant Production Systems

Provision of various cultivation environments employing advanced environmental control technologies to control light, temperature, humidity, carbon dioxide, etc.



Plant factory



Phyto-toron





## [Other Business] Plant Production Systems

## Produced a high value-added vegetables using deep-seawater

## At a plant factory near Haneda Airport, production and sales of vegetables high in minerals with the use of deep sea water.



Interior of the plant factory and Factory-produced vegetables "mineraleaf"

# [Other Business] Examples of Products Delivered

### Arid Land Research Center, Tottori University

(Delivered in March 2016)

Products delivered:

Experimental System for Analyzing Responses of Dryland plants to Climate Changes (2 units) (Simulates the climates of arid lands, including high temperature, low humidity, strong sunlight, and high winds)

Uses:

Plant cultivation experiments and experiments to develop efficient water-usage technologies in arid lands, research to solve issues facing arid lands



Experimental System for Analyzing Responses of Dryland plants to Climate Changes



Experiment in progress

## Strengthen Technology Development Capability (Technology development building introduction)

Objective :Strengthen technology development capabilities and promote preservation of biodiversity by encouraging open innovation

- Concepts : "Open innovation,"
  - "Open communication,"

"Coexistence with the natural environment"

Location : Kanokodai, Kita-ku, Kobe, Hyogo (in Kobe R&D Center)

Start of operation : May 2020

(Construction started in June 2019)

- Building area : 1,580m<sup>4</sup>
- Gross floor area : 4,557m (Three story building)



Rooftop green space using only native species



Technological development building

## Introducing ESPEC's All Weather Simulation Chamber (within the Kobe R&D Center)

(Feb. 2021)

## Opened the world's first All Weather Simulation Chamber Encouraging open innovation and strengthening environmental creation technology

Replicates dynamic climate environments with high-precision control and variation of seven environmental factors (temperature, humidity, snow, fog, rain, sunlight and wind)

■ All Weather Simulation Chamber

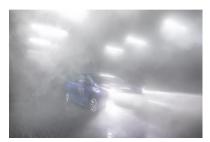
Examples of tests in dynamic environments







Test chamber: Width 6 m x Depth 9 m x Height 3 m A black coating is applied to suppress the diffuse reflection of light.



**(1)** Tests to replicate the change from sleet  $\rightarrow$  snow

Snow with different amounts of water content can be replicated, including snowfall at temperatures around 0°C, which is close to snowfall in a natural environment. By controlling the snow quality and temperature, the laboratory replicates the change from sleet to snow. The laboratory can confirm the performance of automated driving sensors for which snow accretion has become a problem.

②Experiment to replicate the change from rain  $\rightarrow$  fog

The laboratory controls the thickness, temperature and humidity of fog and replicates the change from rain to fog. The laboratory can confirm the performance of automated driving sensors in response to the effects of fog.



# About ESPEC's SDGs and ESG Initiatives

# About ESPEC's Sustainability

Guided by its corporate philosophy,

"THE ESPEC MIND," ESPEC will help to solve social and environmental problems through businesses centered on environmental creation technology, with the aim of achieving sustainable growth.

# **ESPEC Identity Corporate Philosophy**

## Our important values that have been passed on since our inception **"THE ESPEC MIND"** (Excerpt)



To engage in a higher level of value exchange as a public institution



Provide more certain Seikankyo (living environment) via environmental creation technology



Progressive, Reliable, Open, Fair

**Declaration** What ESPEC promises society

"compliance," "culture," "human rights," "the environment," "education/enlightenment."

# **ESPEC's Businesses and the SDGs**

#### Equipment Business



Contribute to the development of cutting-edge technologies through the supply of products and services leveraging environmental creation technology

•Supply products and services that contribute to the development of cutting-edge technologies to solve social and environmental issues

#### Environmental Test Chamber

Supply environmental test chambers that artificially replicate environmental factors such as temperature and humidity, thereby ensuring the reliability of products

#### Energy Device Equipment

Supply evaluation systems for rechargeable batteries and fuel cells installed in eco cars

#### Semiconductor Equipment

Supply products such as burn-in chambers and systems for semiconductor inspection and instrumentation and evaluation systems

#### Pharmaceutical Equipment

Supply products such as freezers for COVID-19 vaccines and stability test systems used for quality control of items such as pharmaceuticals and food



Temperature & Humidity Chamber "Platinous J series"



Automobile test system that can enclose an entire vehicle



Burn-In chamber for semiconductor inspection



Advanced Battery Tester for secondary batteries

# **ESPEC Business and SDGs**

#### Service Business



# Contribute to the development of cutting-edge technologies through the supply of products and services leveraging environmental creation technology

•Supply products and services that contribute to the development of cutting-edge technologies to solve social and environmental issues

#### • After-sales Service and Engineering Conduct product maintenance and preventive maintenance so that customers can use systems with peace of mind

#### •Laboratory Testing Services

Provide laboratory testing services based on technologies and testing expertise developed through environmental tests



Electronic records that facilitate maintenance log management



Support for remote operations using smart glasses



Large temperature cycle testing system (Battery Safety Testing Center)

# **ESPEC Business and SDGs**

Environmental Preservation Business



# Contribute to biodiversity preservation

A business to restore natural environments through projects such as reforestation (tree planting) with local native plant species and waterfront biotope restoration to rehabilitate natural river ecosystems Contribute to the prevention of global warming and biodiversity preservation



A forest restored along the approach to Rinno-ji Temple in Sendai



Waterfront biotope restoration on the Sumida River Terrace in Tokyo

ESPEC CORP.

Plant Production Systems Business



Contribute to a stable food supply to address global warming and extreme weather

Supply plant factories that artificially replicate plant growing environments and enable vegetables to be grown systematically even under extreme weather conditions

Contribute to a stable food supply by supplying systems that can be used in research into drought-tolerant plants



Plant factory using deep sea water Produce and sell vegetables high in

minerals

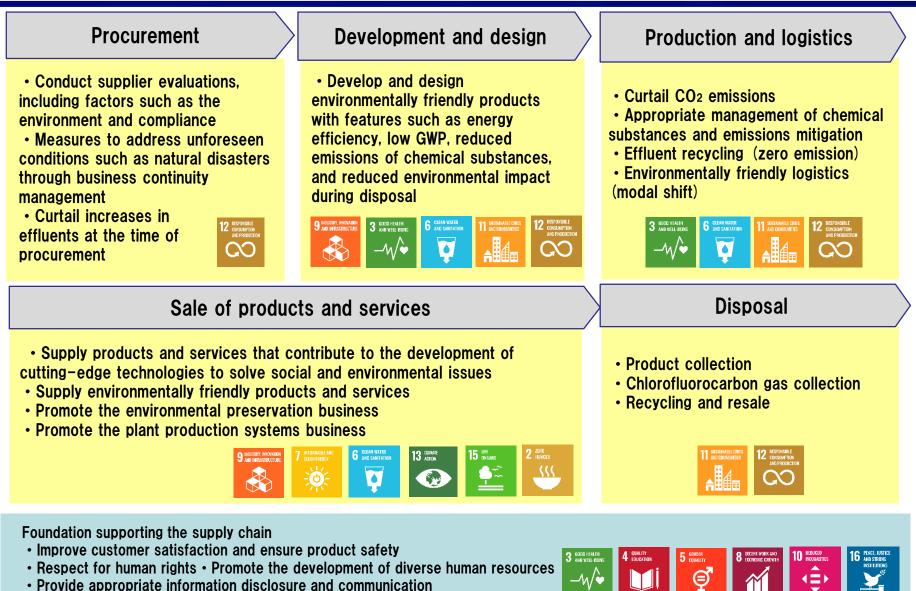


Experimental System for Analyzing Responses of Dryland Plants to Climate Change

(Arid Land Research Center, Tottori University)

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# Contribute to SDGs in the Supply Chain



Strengthen the management foundation

# **Initiatives for Environment**

Promote environmental management Currently, we are implementing the 7th Mid-Term Plan on the Environment (planned implementation period: FY2018-FY2021).

(1) Measures to address climate change

The Mid-Term Plan on the Environment was revised in FY2020. The target for CO<sub>2</sub> emissions at domestic business sites was changed from the previous target of reducing emissions per net sales to reducing gross CO<sub>2</sub> emissions. FY2021 target: Reduce gross CO<sub>2</sub> emissions by 10% (versus FY2018)

- May 2020: In response to the Science Based Targets (SBT) initiative, an international organization, we committed to setting science based greenhouse gas emissions targets within the next 2 years, in order to contain global warming to 2°C or less.
- August 2020: We voluntarily responded to the CDP Climate Change Questionnaire for the first time (received a "B" score).

 Promote the conversion to electricity derived from renewable energy January 2020: Kariya Test Center: January 2021: five Kansai business sites (Head Office, Fukuchiyama Plant, Kobe R&D Center and other sites): April 2021: Utsunomiya Technocomplex, Toyota Test Center The ESPEC Group' s renewable energy usage rate is 70%. We expect to reduce annual CO<sub>2</sub> emissions by 48% on a consolidated basis and by 75% in Japan (versus FY2019).

# **Initiatives for Environment**

- (2) Supply products and services that contribute to a sustainable society Develop and supply environmentally friendly products (such as energy efficient products and low GWP products)
- (3) Resource circulation Implement measures such as reducing effluents
- (4) Chemical substance management Curtail emissions of hazardous substances, address RoHS regulations
- (5) Preserve biodiversity and develop environmental personnel
  - Preserve biodiversity through the environmental preservation business
  - Model forest (Kewara Forest Creation Program) activities March 2018: Designated as an affiliated business of the Japan Committee for United Nations Decade on Biodiversity
  - Raising environmental awareness through activities such as ESPEC Midori-no-gakko schools (ESPEC Green School) and encouraging people to take the eco test
  - ESPEC Foundation for Earth Environment Research and Technologies

# **Biodiversity Preservation Initiatives**

### Kobe R&D Center, a hub for biodiversity preservation activities Developed rooftop green space using only plant species native to the northern Rokko region

The site has a forest of approximately 30,000 trees comprising native plant species, planted and grown by employees: rooftop green space using plant species native to the northern Rokko region on the roof of the technology development building; and a biotope made up of two ponds and a stream.

ESPEC MIC CORP., which manages the environmental preservation business, conducted the tree planting and construction.



A biotope that attracts a variety of living creatures, such as birds, insects and fish



The Kobe R&D Center aims to achieve harmony with the natural environment.

## To a company where employees can be more active



Initiatives to promote women's success

From the Ministry of Health, Labor and Welfare: The Company received the "Kurumin" certification, which is granted to companies that support child-rearing. And the highest ranking of the certification mark "Eruboshi" based on the Act on Promotion of Women's Participation and Advancement in the Workplace.



The female leadership development program

### Employee Education System Enhancement

- Implement training sessions to share the corporate philosophy
- Implement a Global Trainee Program aimed at developing human resources who are capable of working in international settings
- Enhance the education program to support management executive education and selfdevelopment



On-site training in the Global Trainee Program (U.S.)

### ESPEC Foundation for Earth Environment Research and Technologies

Provides funding support every year for research, technology development on global environmental conservation
Established in 1997 on the 50th anniversary of ESPEC



Award Ceremony

# ESPEC Smile Club: a donation system featuring employee participation

•Established a matching gift system in which the company matches donations made by employees as part of activities to promote SDGs (Jan. 2021)

•Donated to an organization that conducts CSR activities related to children and medical care



Logo

# Contributing to COVID-19 Vaccination

(Apr.-Jun. 2021)

### Contributing to the cold chain of COVID-19 vaccines Free lending of freezers for transport and storage/Enhance products and services

•Free lending to local governments and others of 40 devices such as Freezers improving on existing devices for vaccine storage, and Freezers for Temperature Controlled Transport optimal for the small-lot transport and storage of vaccines.

In June, launched Ultra-Low-Temperature Freezers capable of small-lot storage at -75℃
 Expanded services such as equipment rentals and temperature logger calibration





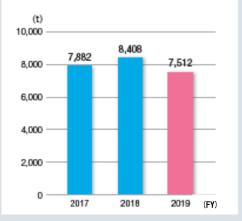
Freezer for Temperature Controlled Transport Supports transport and storage of temperature range from 2-8°C and -20°C Vibration resistant, energy efficient and portable

Ultra-Low-Temperature Freezers Two types of freezers, floor and table, and capable of storage to -75℃

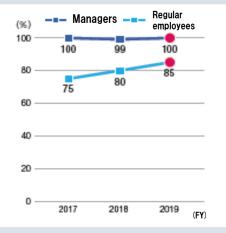


## Non-Financial Data (Environmental Aspects)

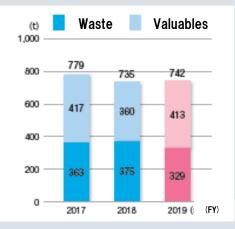
Contribution to CO<sub>2</sub> emissions mitigation through the sale of energy efficient products



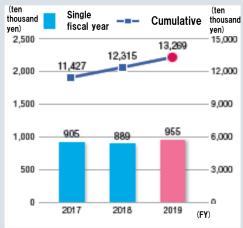
Certification acquisition rate for the Certification Test for Environmental Specialists (Eco Test)



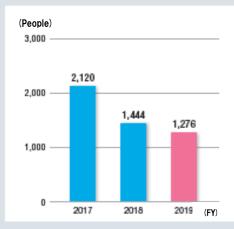
#### Total amount of effluents



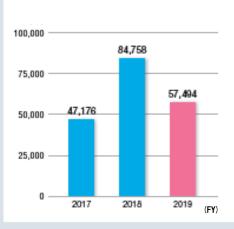
Grants from the ESPEC Foundation for Earth Environment Research and Technologies



#### Number of participants in ESPEC Midori-no-gakko schools (ESPEC Green School)



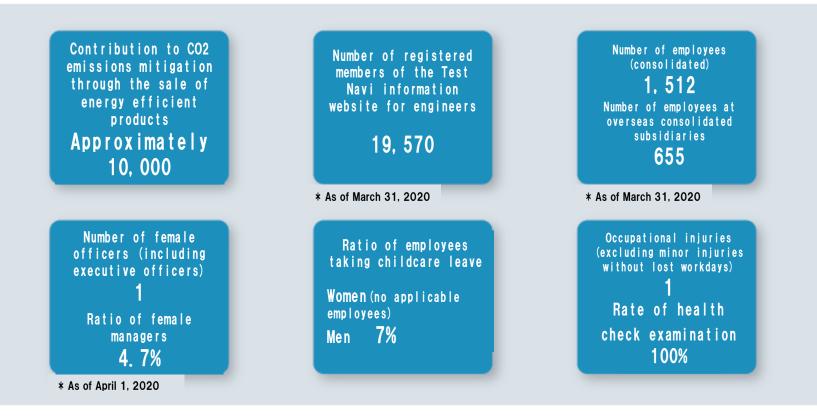
Number of trees planted through environmental preservation business



\* Actual results for ESPEC MIC CORP.

## Non-Financial Data (Social Aspects)

#### FY 2019 Results



•Ranked 429th in Toyo Keizai Inc.'s 2021 SDGs Corporate Ranking

March, 2021

•Ranked 357th in Toyo Keizai Inc.'s 2021 CSR Corporate Ranking

February, 2021

•Our Sustainability Report received the Excellence Award in the Environmental Communication Awards

(Organized by the Ministry of the Environment and the general incorporated foundation Global Environment Forum)

December, 2020

- •Voluntarily responded to CDP Climate Change Questionnaire this year for the first time and received a "B" score
- •Selected as an excellent website in the All Japanese Listed Companies' Website Ranking 2020 by Nikko Investor Relations Co., Ltd.
- •Awarded a Bronze Prize in the Gomez IR Website Ranking 2020 by Morningstar Japan K.K. (ranked 28th according to industry)

November, 2020

•Rated 3 stars in Nikkei's 4<sup>th</sup> Smart Work Management Survey

•Rated 3.5 stars in the Nikkei SDGs Management Survey 2020

•Ranked 163rd in the Nikkan Kogyo Shimbun's COVID-19 Response Ranking (sponsored by the Ministry of Economy, Trade and Industry)

June, 2020

•Ministry of Economy, Trade and Industry (METI) Global Niche Top Companies Selection 100 for Fiscal 2020 ESPEC was selected as a winner for the second time









Quality is more than a word



