



Tungaho Textile Co., Ltd

2024 Corporate Information Meeting

2024/12/20

股票代號：1414

<http://www.tungaho.com.tw>

Disclaimer

The information provided in this presentation contains forward-looking statements, These forward-looking statements may be affected by future uncertainties and risks.

Some will be beyond our control, Actual results may differ from these forward-looking statements. In the event of changes or adjustments in the future, Please use the information announced by the public information observation station as the basis.



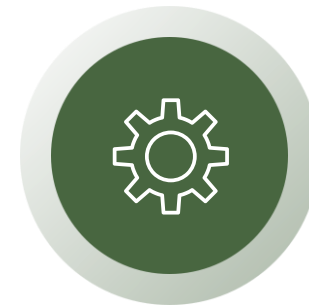
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Company Profile



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Sustainable development

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Company Profile



01. Company Profile

Basic data

F o u n d i n g

1953
year

Chairman

蔡淑櫻

Proportion of revenue

Mixed threads
77 %

Business philosophy

Be honest and responsible

constantly improve something

Learn from the past and learn from the future

Create benefits

L i s t e d

1974
year

General Manager

張嘉亨

L e a s e
23 %

C a p i t a l

2.2 billion

Number of employees

178 人

Turnover

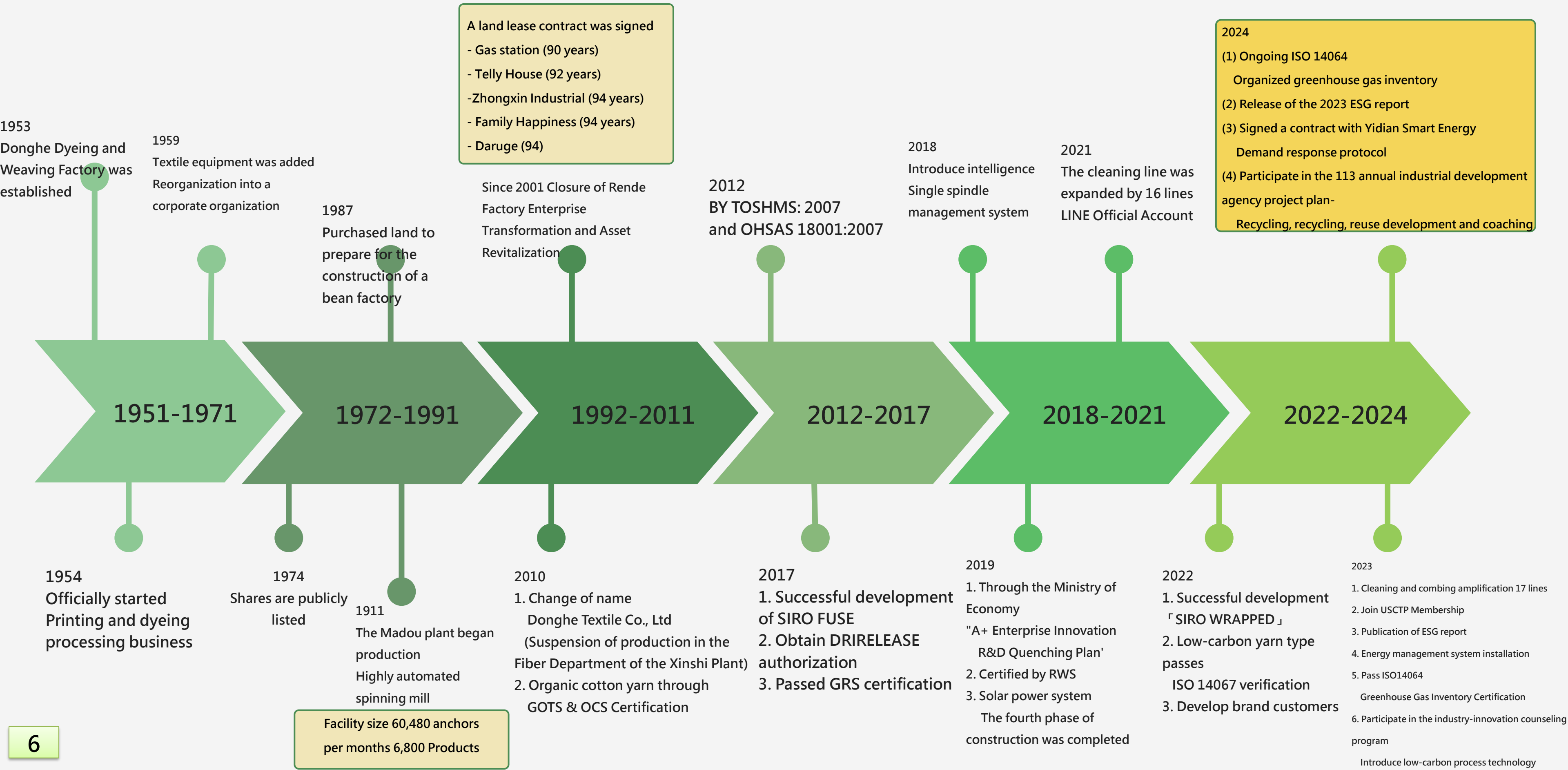
NTD **566,660**
Thousand dollars (2023)



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01. Company Profile

Basic data



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Main products



02. Main products



General Cloth

General Ring Tablet Blend

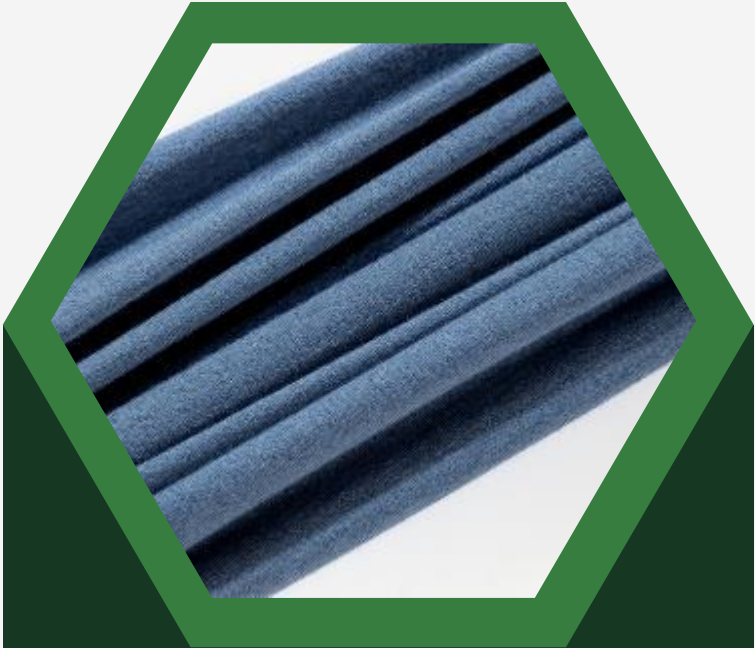
Polyester
Cotton



dri*release*

Combines hydrophilicity with
hydrophobicity
Excellent properties of fibers

Suck and dry quickly
Function: Washable resistant
Prevents odors
Skin-friendly and
comfortable



SIRO

SIRO-COMPACT
SIRO-WRAPPED
SIRO-FUSE

Soft feel
Single-dyed
multicolored
Unique fancy
Low hairiness |



Combined Functions

Collaborative development of
custom ratios

Temperature control
Natural and
environmentally
friendly
Antibacterial and
deodorant
Skincare moisturizing

Advanced Spinning Process - SIRO

SIRO-COMPACT

The fibers are arranged parallel and tight
Low hairiness is resistant to feathering

SIRO-WRAPPED

- 9 Combined with long fiber, good strength, low hairiness characteristics
It has a soft feel with staple fiber skin-friendly

SIRO-FUSE

Customized intervention yarn knot length/knot ratio
The cloth fabric is unique



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03. >>>>

Operational Overview



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03. Operational Overview

Direction of operation



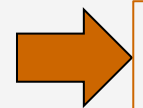
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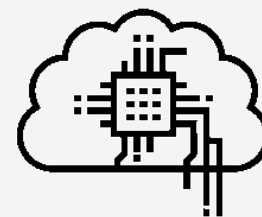
Set up a professional R&D center

- Continuous expansion of special yarn production lines and optimization of spinning processes SIRO-COMPACT,SIRO-SLUB,SIRO-FUSE

- Exploitation SIRO-WRAPPED Long and short fiber composite yarns



Expanded to 17 lines;
Special yarn accounts for 70% of the factory's production capacity



Intelligent management of elastic production

- SpiderWeb Online quality monitoring
- Intelligent single spindle management system/App
- LOEPFE Millmaster The quality of the finished yarn is fully controlled
- ESPEstablishment of big data knowledge management system



Collaborative development of customized production

- Customized differentiated special yarn types to attract brand customers
- Upstream, midstream and downstream integration and collaborative development of functional yarns



Breathable



Protection



Anti-odor



Temperature control



Antistatic



UV
resistant



Antibacterial



Environmental
protection

Green energy and environmental protection, sustainable textile



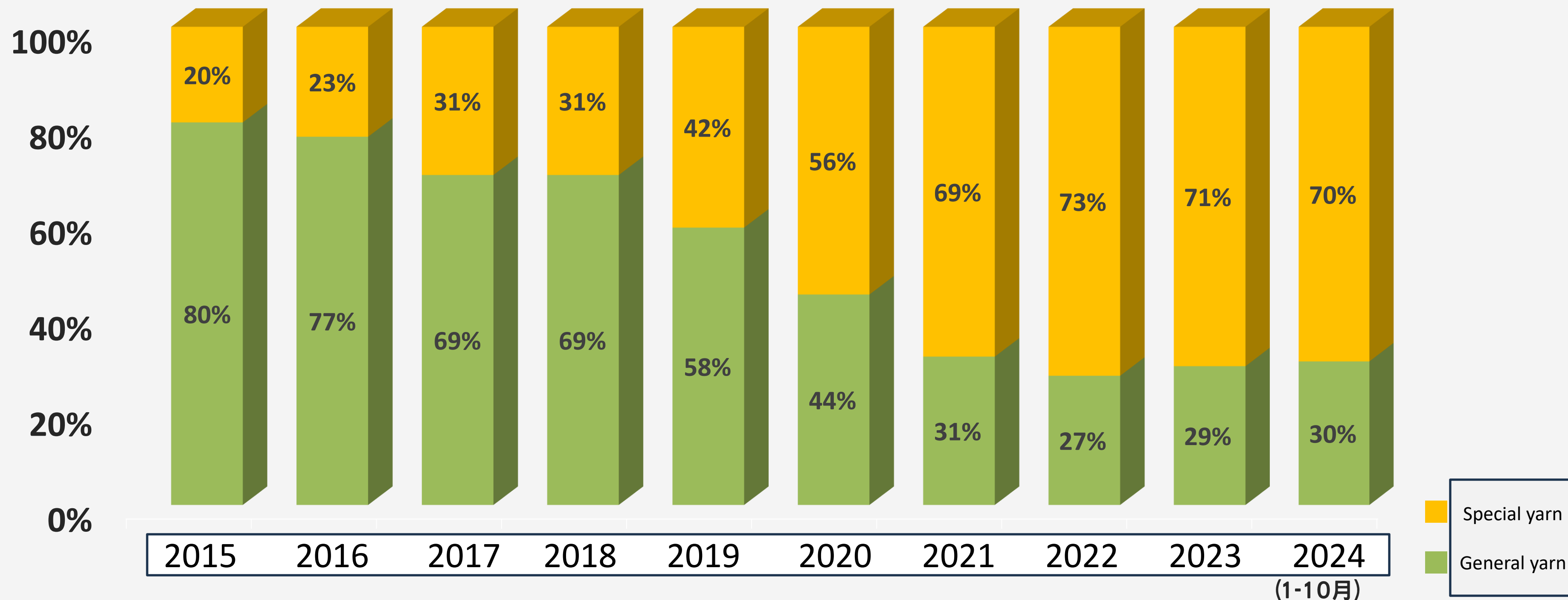
- Energy-saving and environmentally friendly workshops
- International environmental certification
- Development of recycled/biodegradable and environmentally friendly yarns
- Low-carbon products are certified according to ISO 14067
- Greenhouse Gas Inventory ISO 14064 verification

03. Operational Overview

Portfolio optimization



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The product portfolio continues to be optimized - the proportion of special yarn sales continues to grow

04. >>>>

Sustainable development



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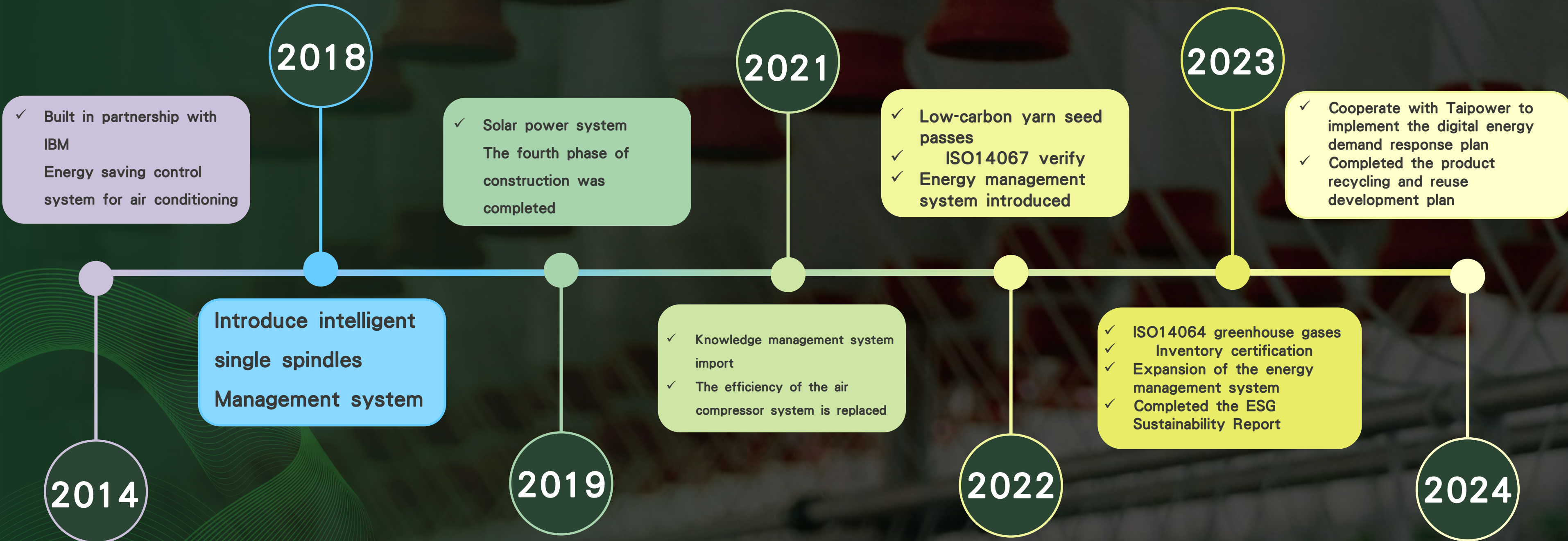
04. Sustainable development

Environmental policy promotion

- ✓ ESG Report (First published in 07/2023)
- ✓ ISO 14067 Product Carbon Footprint Certification
- ✓ ISO 14064 Greenhouse Gas Inventory Certification
- ✓ ISO/CNS 45001 Occupational Safety and Health System Certification
- ✓ ISO 9001 Quality Management Certification
- ✓ International Environmental Certification:
 - ✓ GOTS Global Organic Textile Certification
 - ✓ Certified to the OCS organic content standard
 - ✓ GRS Global Recycling Standard Certified
 - ✓ RWS Responsible Wool Standard Certification



04. Sustainable development



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IBM Air Conditioning Energy Saving Control System

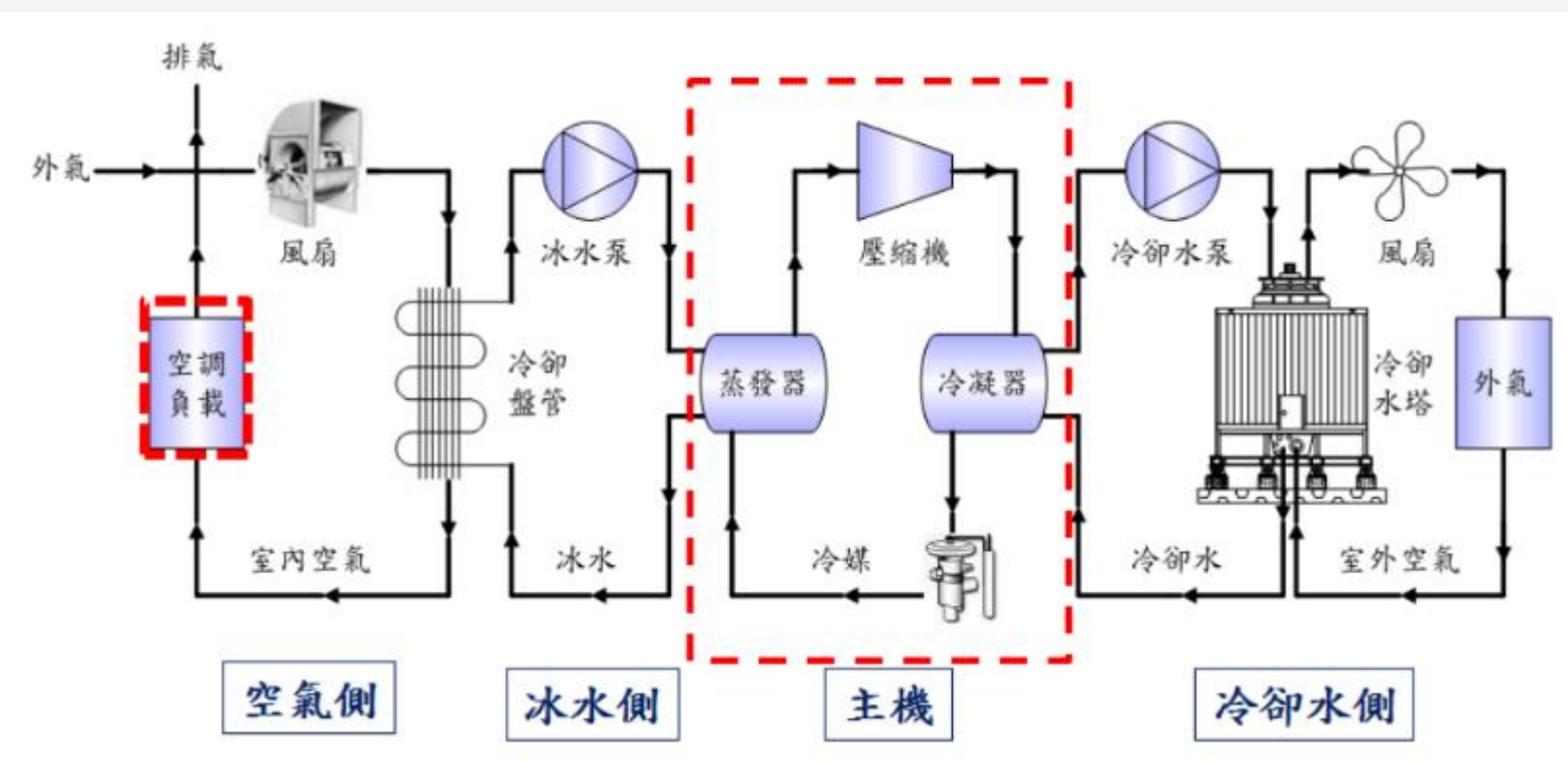
Improve the → of missing items

Unbalanced airflow

The temperature is unevenly controlled

Humidification is done at the wrong frequency

The return air of the trench is unbalanced



Intelligent quality monitoring system

- ✓ Single-spindle/draw management system
- ✓ Electronic yarn clearer
- ✓ Tampon quality monitoring system
- ✓ Reduced breakage and improved quality
- ✓ Real-time monitoring of production input and output data
- ✓ 6.5% increase in production efficiency



Draft monitoring



Energy consumption monitoring



Bobbin forming analysis

04. Sustainable development



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Energy Management System

Adoption and Expansion:

✓ Demand warning

(AI Intelligent Quality Parameter Calculation Mechanism)

✓ Smart Meter Nodes:

✓ "Smart analysis" is more detailed

✓ The "early warning service" is more accurate

✓ A state of emergency is issued

✓ (via Line, SMS, email...) etc.)

An overview of the efficiency of the whole plant



Demand forecasts



Electricity quality analysis



Analytics management



Process power management



Incident management



High-efficiency solar energy Power generation systems



Madou

Annual
electricity
generation

270 KW

Reducing carbon
emissions

1,400 tons/
year



Rende

Annual
electricity
generation

90 KW

Reducing carbon
emissions

460 tons/
year



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Self-examination + commitment to carbon reduction

Use certified recycled fibers

- Annual use of recycled polyester (rPET).
18 million PET bottles were recycled

- Annual decrease of 145000 KG CO₂e



註1：每公斤rPET減少1.7 公斤CO₂e
<https://textilevaluechain.in/in-depth-analysis/articles/textile-articles/recycling-of-plastic-bottles-into-yarn-fabric/>
<https://packagingeurope.com/study-confirms-the-excellent-carbon-footprint-of-recycled-pet/1923.article>



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Carbon neutral and zero carbon fiber

True carbon zero Zero carbon fiber

-TENCEL™ Lyocell fibers

-TENCEL™ Modal fibers



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All-round functional staple fiber textile expert



Instant interaction with
official Line friends



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