



Mid & Long term Environment Plan

Daeshin

16, Haean-ro 397beon-gil, Danwon-gu, Ansan-si, Gyeonggi-do, Republic of Korea

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This report is the data for the facility's mid & long-term environmental management strategy. The contents to be conveyed through the report consist of general information of the factory, strategies for managing the environmental impact that occurs in the factory, and action plans for reducing and managing the environmental impact.

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보고서를 통해 전달하고자 하는 내용은 공장의 일반정보, 공장에서 발생하는 환경영향을 관리하기 위한 전략, 환경영향의 저감 및 관리를 위한 실천 계획으로 이루어져 있습니다.

Facility Information



Daeshin is a dyeing factory that mainly processes dyeing and finishing.

With about 100 workers, we produce a variety of dyed & finished knitted fabrics to meet the needs of Korean and overseas companies.

The factory is located in an industrial complex, and all energy and water are supplied from the industrial complex. Waste is handled by a third-party company licensed in accordance with national laws, and most of the waste is disposed of in a way that reduces the environmental impact through recycling and reuse processes.

All energy, water and chemicals in use are traceable, and through accumulated data, we operate our facility in the direction of lowering energy use, reducing water use and reducing waste generation.

Higg Index FEM and ZDHC are being introduced into facility, and through this, we are participating in environmental management and hazardous substance management that are required globally.

Facility Information

Applied Energy

| Items | Availability |
|-----------------------|--------------|
| Coal | |
| Steam | V |
| Electricity | V |
| Biomass | |
| Solar Photovoltaic | |
| Natural Gas (LNG/LPG) | V |
| Diesel | V |
| Petrol | V |
| Fuel Oil | |
| Wind | |
| Geothermal | |
| Hydro | |
| Chilled Water | |
| Micro-Hydro | |

Applied Air emissions

| Items | Availability |
|----------------------------------------------------|--------------|
| Boiler | V |
| Generator | |
| Engines | |
| Ovens | |
| Heating & Ventilation | |
| Refrigerant device | |
| Air Conditioning | V |
| Yarn spinning or synthetic fiber manufacturing | |
| Finishes | V |
| Solvents | |
| Adhesives/cementing | |
| Printing | |
| Dyeing | V |
| Tenter frames or other heating processes | V |
| Spot cleaners | |
| Sprayed chemicals or paints | |
| Other sources of ozone depleting substances (ODSs) | |

Applied Wastes

| Items | Availability |
|----------------------------------------------------------------------|--------------|
| Materials (Yarn & Fabric) | V |
| Metal | |
| Plastic | V |
| Paper | |
| Cans | |
| Food | |
| Glass | |
| Cartons | V |
| Others | |
| General or unspecified waste | V |
| Empty chemical drums and containers | |
| Film and Printing Frame | |
| Wastewater treatment sludge (industrial/domestic) | |
| Expired/unused/used chemicals (waste oil, solvents, reactants, etc.) | |
| Compressed Gas Cylinders (refrigerants, etc.) | |
| Contaminated materials | V |
| Batteries | |
| Fluorescent light bulb | |
| Ink cartridges | |
| Waste oil and grease (from cooking) | |
| Empty containers (cleaning, sanitizing, pesticides, etc.) | |
| Electronic waste | |
| Coal combustion residuals (fly ash and bottom ash/coal slag) | |

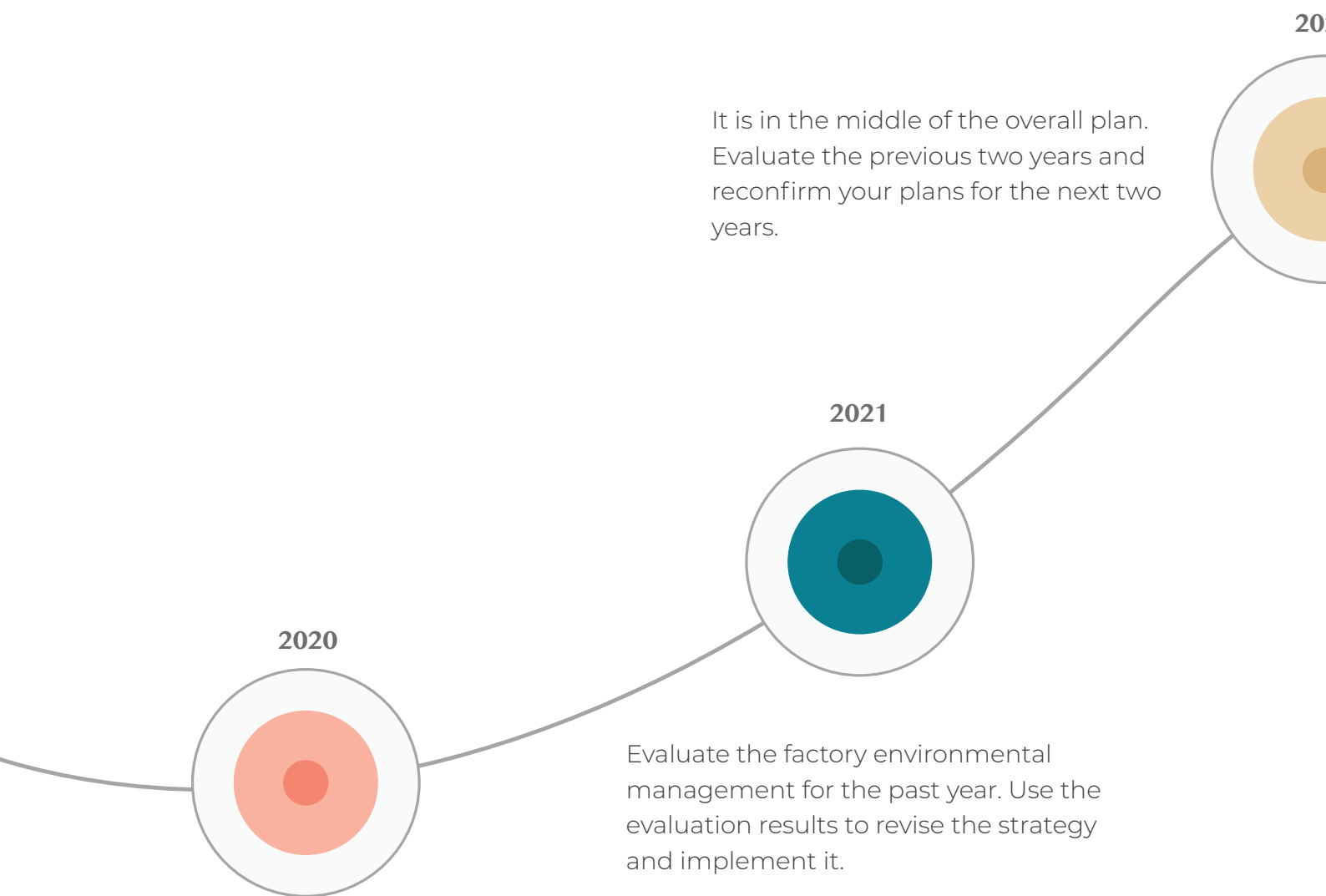
Applied Waters

| Items | Availability |
|-----------------------------------------|--------------|
| Fresh Surface Water | |
| Rainwater | |
| Ground Water | |
| Produced/Process Water | |
| Municipal Water | V |
| Wastewater from another organization | |
| Blackish surface water / Seawater | |
| Total Freshwater (All sources combined) | |

Facility Environment Strategy

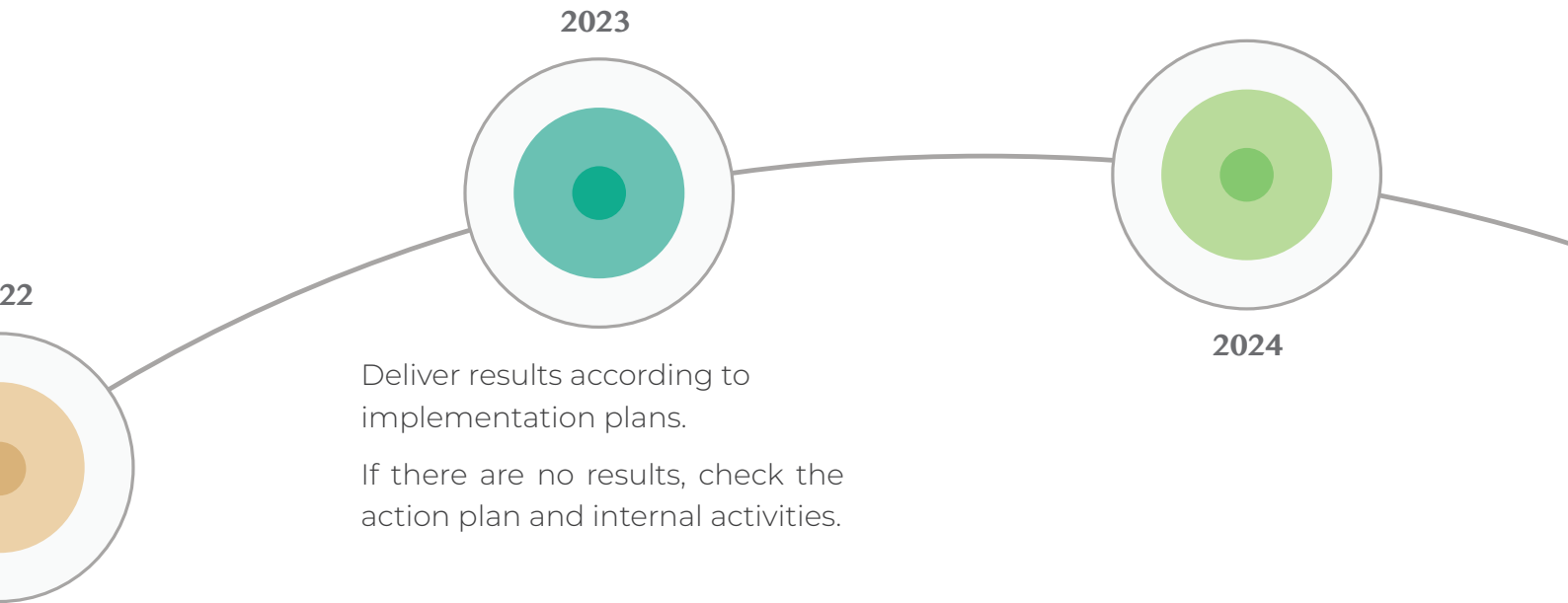
Our environmental management strategy is carried out **over a five-year period from 2020 to 2024.**

We have reduction targets and action plans for each of the seven areas: **energy use / greenhouse gas emission / water use / wastewater management / air emission source management / waste management / chemical substance management.**



Identify the environmental impact of the factory and establish a mid- to long-term management strategy through this. Operate and manage the plant according to the strategy.

Evaluates the environmental management strategy of the past 4 years and establishes a mid & long-term plan again. Get a clear picture of what the factory does and doesn't do.



| Environment Impact | Baseline Year | Target Year | Period | Reduction % | Type of measure |
|----------------------|---------------|-------------|--------|-------------|-----------------|
| Natural Gas(LPG/LNG) | 2020 | 2024 | 5 | -2 | Normalized |
| Diesel | 2020 | 2024 | 5 | -2 | Absolute |
| Petrol | 2020 | 2024 | 5 | -2 | Absolute |
| Electricity | 2020 | 2024 | 5 | -2 | Normalized |
| Steam | 2020 | 2024 | 5 | -2 | Normalized |
| Municipal Water | 2020 | 2024 | 5 | -2 | Normalized |
| Waste | 2020 | 2024 | 5 | -2 | Normalized |

Facility Implementation Plan



We intend to implement this by establishing a mid & long-term action plan according to the environmental impact of the factory.

All action plans have been created taking into account the cost of the investment and the period to receive it back. Some management-related plans need to be upgraded and made with partners. Therefore, we would like to share the plan below not only with us, but also with our stakeholders who are helping us with our business.



EMS

- System update through regular environmental management system review
- Collecting information for evaluating the personal ability of the person in charge of the environment
- Production chain management by monitoring the progress of the Higg Index by stakeholders



ENERGY

- Analysis of the process of using surplus energy through energy diagnosis
- Reduction of total energy use through dyeing and tenter machine replacement
- Electric energy reduction through utility improvement
- Collection of GHG generation data through calculation of GHG emissions



WATER

- Reduction of water use by adjusting the proportion of water used during dyeing
- Introduction of air emission management system with less water usage
- Reduction of water use during fabric processing through chemical improvement



WASTEWATER

Reduction of overall pollution of wastewater by reducing the use of chemicals
Hazardous substance management through regular ZDHC wastewater analysis



AIR EMISSION

Air pollutant management through expansion of modern air purification facilities
Work environment management through expansion of air emission purification facilities for each workplace



WASTE

Increasing the proportion of reuse and recycling through discussions with waste collection companies
Reduction of general waste generation by reducing the use of disposable products in the factory
Reduce the amount of plastic containers generated by requesting changes to chemical packaging



CHEMICALS

Chemical substance management system upgrade through chemical substance management system update
Reduction of material consumption through collaboration with currently used chemical production companies
MRSL & RSL management by expanding the use of ZDHC certified chemicals

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