



SEKKISEI CLEAR WELLNESS

Pure Conc SS

Bottle · Refill

Carbon footprint calculation report

1 Objectives of calculating carbon footprint

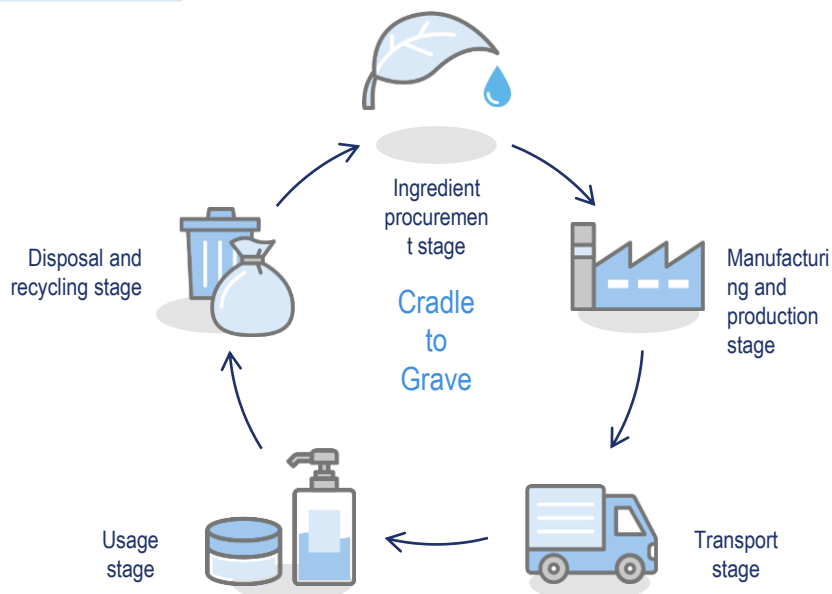
KOSÉ has calculated the CO₂ emissions of Sekkisei Clear Wellness Pure Conc SS products (bottles and refills), over their entire lifecycle, from ingredient procurement to disposal ("cradle to grave"). This enables us to visualize their total emissions (their "carbon footprint") and deliberate regarding how to reduce emissions in the future. Also, from the perspective of providing consumers with carbon footprints to assist in their selection of sustainable activities, we focused on carrying this calculation out speedily.

At the same time, we also took care to achieve a sufficient level of accuracy to ensure the reliability of our calculation results.

- Calculations were performed after ensuring a sufficient level of precision in order to perform calculation speedily yet accurately
- When using scenarios or proportionate distribution to determine figures for data which could not be acquired, the validity of the data was confirmed to ensure the reliability of the results
- ISO14067 was employed when performing calculations

2 Product lifecycles and scenarios used in calculation

1	Functional unit (declared unit)	Sekkisei Clear Wellness Pure Conc SS Footprint per product (bottle: 200 mL, refill: 170 mL)
2	Carbon footprint calculation period	Acquirable data from January 2022 onward
3	Type of GHGs considered	GHGs included in IDEA and Ministry of the Environment intensity data (CO ₂ , CH ₄ , etc.)
4	System boundary map and lifecycle	Entire lifecycle, from ingredient procurement to disposal (cradle to grave)

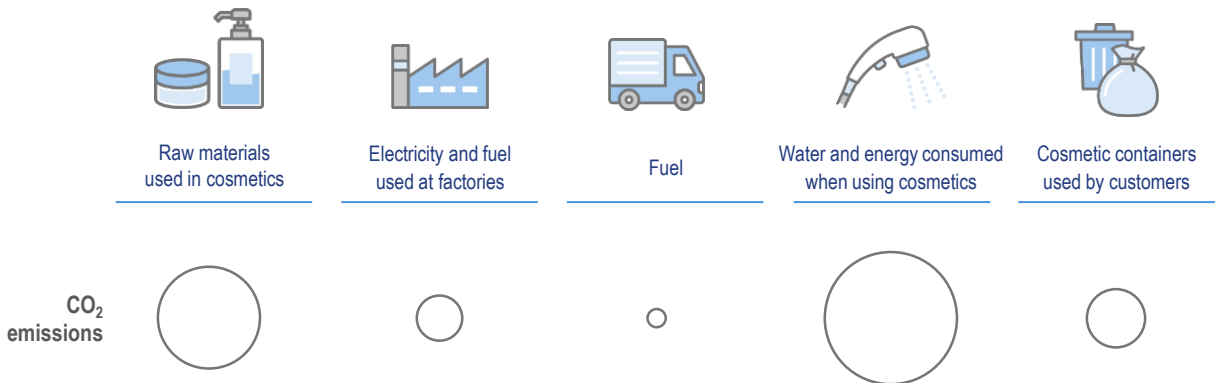


3 Data sources

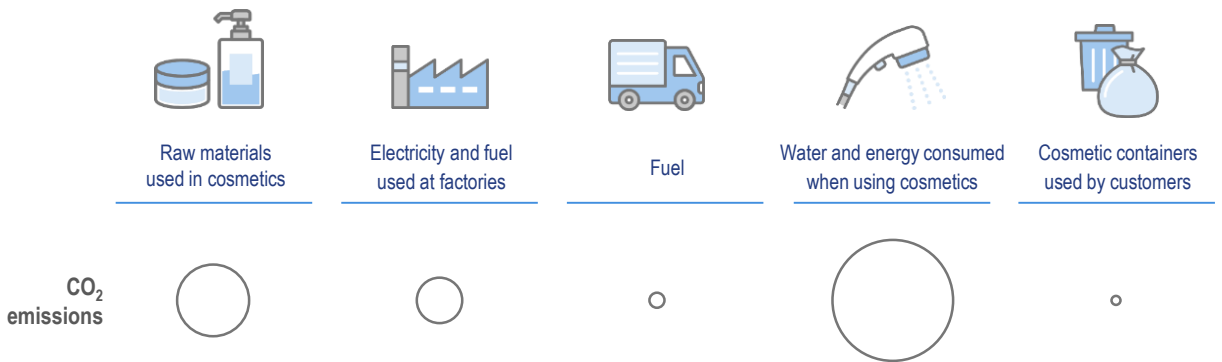
Related internal data was used for initial data. The periods of acquisition for each type of data are individually decided based on the difficulty involved in acquiring the data, while taking care to determine if the data accurately reflects actual conditions. Data from IDEA ver.3.1, the Ministry of the Environment's Green Value Chain Platform Ver. 2.4 (the latest version as of October 2022), and the SuMPO database of distances between countries and regions were referred to with respect to secondary data. In cases where primary data could not be acquired for activity levels, scenarios were used.

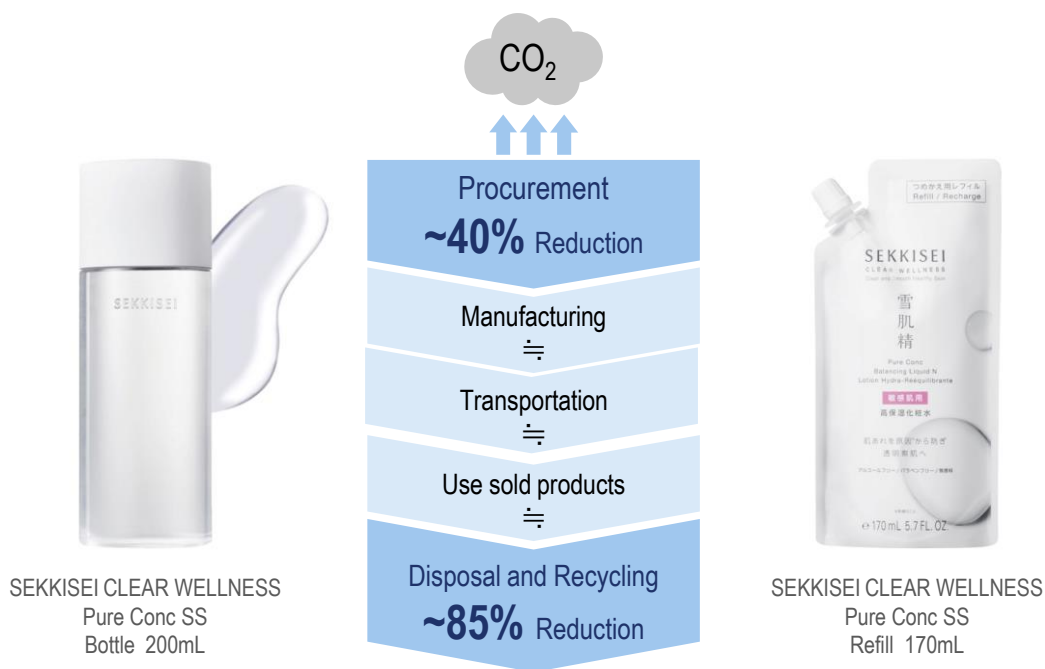
4 Calculation results

Below is a conceptual image of CO₂ emissions over the entire product lifecycle, from ingredient procurement to disposal (cradle to grave) for Sekkisei Clear Wellness Pure Conc SS (200 mL bottle).



Below is a conceptual image of CO₂ emissions over the entire product lifecycle, from ingredient procurement to disposal (cradle to grave) for Sekkisei Clear Wellness Pure Conc SS (170 mL refill).





5 Investigation limitations and future direction

We defined and calculated scenarios for the ingredient procurement and transport stages from the perspective of speedily calculating carbon footprints while maintaining the accuracy of calculations, so portions may not reflect actual conditions. KOSÉ data was used for the data on energy usage during the manufacturing and production stage, but acquiring actual measurement values was not possible for some processes, so proportionate distribution was performed on KOSÉ data to determine figures for this data.

Going forward, we will continuously review and revise our carbon footprint calculation methods with the aim of performing calculations which accurately reflect reductions and actual conditions so that we can further improve the accuracy of our results.