

Toward Realizing a Sustainable World

~Exploring and manifesting the hidden potential of Moringa~

At LINTEC, contributing to realizing a sustainable world is a basic policy of our LSV 2030 long-term vision, and as one initiative toward achieving this, we have begun cultivating and utilizing the Moringa plant.

Moringa is a tropical and subtropical plant known in Japanese as wasabi-no-ki (horse-radish tree), and food, health, and beauty products containing the rich components in its leaves, flowers, and seeds are widely available. Moringa has achieved attention due to its speed of growth and capacity to absorb CO₂, and as such is cultivated both within Japan and overseas. Research has also shown that components in Moringa seeds have water purification properties. While verifying the hidden potential of Moringa, it is our aim to create value that helps solve social issues.

This initiative began with the SDGs Committee, and currently, simultaneous activities are being carried out by the New Project Planning Office for usage development and verification, and at the Tatsuno Plant for cultivation. This special feature section will introduce employees who are taking upon themselves the challenge of creating and providing value through the cultivation, processing, and utilization of Moringa.

Purifying water with Moringa: SDGs Committee (Team name: Click Chemistry)

■ **Manager Ono (Innovation Promotion Department),**
Assistant Section Manager Takayama (New Project Planning Office),
Senior Staff Okoshi (Procurement Department)

The SDGs Committee forms teams consisting of 3–6 members from across the company, and each of these discusses social issues with people inside and outside the company to deepen understanding and interest, thereby creating and proposing ideas to solve these issues.

“Click Chemistry” learned about the situation in developing regions that experience drinking water shortages, and made the decision to contribute to solving this issue by developing and selling a water purification system that does not require electricity. In order to realize this idea, we observed the coagulation and flocculation of contaminants and waste in water using substances extracted from Moringa seeds. Furthermore, although we anticipated the possibilities of purifying water through combination with organic decomposition using sunlight, we faced barriers such as Moringa seeds being rare and hard to obtain, or low purchasing power in regions facing water shortages. As we were running out of options, we were joined by members of the New Project Planning Office and Tatsuno Plant, and we set out a plan to cultivate Moringa as a company initiative.

Looking forward, we hope to tackle each of these issues as we encounter them, in cooperation with our innovative members.



“Click Chemistry” team members
(at the time of formation) discussing ideas

Creating value with Welsurt × Moringa: New Project Planning Office

■ **Chief Project Manager Morimoto**

The New Project Planning office has established the Welsurt brand, which incorporates the concepts of Well-being, Sustainable, and Smart. With the aim of realizing a sustainable world in which everyone can live a vibrant life, we are currently proposing various development initiatives across diverse fields such as information communications, electronics, energy, healthcare, and nursing care, aimed at helping resolve environmental and social issues.

After hearing ideas for water purification from SDGs Committee members, we explored the properties of moringa, and realized that by engaging in its cultivation, processing, and utilization, we could contribute to achieving Welsurt's concept from a new perspective. Since then, we have been deepening collaboration with both internal and external stakeholders, supporting cultivation efforts at our Tatsuno Plant, and exploring possibilities for processing and application.

Moving forward, we will continue working with universities, NPOs, and external partner companies to advance research, verification, and development of new uses, striving to create value that contributes to a sustainable society.

Well-being:

A state of physical, mental, and social satisfaction.

Sustainable:

Achieving sustainability.

Smart:

Social innovation using electronics technology and networks.

Page introducing Welsurt



Toward Realizing a Sustainable World ~Exploring and manifesting the hidden potential of Moringa~

Cultivating moringa for future new customers at the Tatsuno Plant

■ Cultivation Promotion Members:

Senior Project Manager Ueda, Project Manager Fujita, Project Manager Mizukawa, Section Manager Shimizu, Section Manager Nakayasu

At the Tatsuno Plant, we began cultivating agricultural products on unused land within the plant in 2021, and established stable strawberry production within three years. These were distributed to nearby areas and received positive feedback for their flavor. While struggling to ensure sales without only focusing on community contributions in order that we could continue with cultivation, the topic of Moringa came up. Initially, however, we didn't think it could be cultivated, since we had never seen or heard of it before.

Later, through the New Project Planning Office, we obtained information from an NPO with cultivation experience and started open-air cultivation in spring 2024, and in autumn, harvested approximately 1,000 Moringa trees that grew up to a maximum height of about 4 meters.



Preparation of 50 m × 8 rows

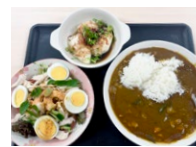


Healthy germination and growth



At maximum height of about 4m

With the assistance from the New Project Planning Office, the harvested Moringa was dried and powdered, then mixed into cookies and candies. These were distributed as novelty items at the Neo Functional Material 2025 at which the New Project Planning Office participated. They received feedback such as "It's easy to eat, just like matcha," and employees also mentioned that it was also delicious when added to yogurt or curry.



Moringa Curry & Salad
made by employees

Special website introduced at the Neo Functional Material 2025



Upon learning that our novelties made from the Moringa that we had cultivated were well-received, we felt the hard work involved was worthwhile—this included removing large amounts of stones during cultivation along with other efforts leading up to harvest. Additionally, as we came to better understand the potential of Moringa as well as its specific uses, a sense of determination grew not only for our company and ourselves, but also for future new customers. In 2025, we will try various types of soil and fertilizers to accumulate know-how, and hone our skills in reliable cultivation and harvesting.



Large number of stones
removed during preparation



Members together for harvesting

We thoroughly investigate what customers want, and sincerely respond to their demands with our original ideas and creativity.

This is an approach that our company values, and one with which we can meet expectations from customers and other stakeholders. Although there are still many unclear aspects regarding the cultivation and utilization of Moringa, as well as its effects, we are continuing to experiment and make progress through trial-and-error. Looking forward, we will thoroughly pursue the potential hidden within Moringa to create unique value for our company, and to contribute to solving social issues and thus realize a sustainable world.

