



One Step Ahead with Sustainable Agriculture

Yinhuang Farm – China



Bayer
Forward 
Farming

Sustainable Agriculture in Practice

With the dream of green, ecofriendly agriculture, Qin Aiteng established Yinhuang Green Agricultural Ecological Park Co., Ltd. in Changping District, Beijing. The enterprise takes an entrepreneurial- cooperative farming approach to produce high-quality vegetables and fruits, but also passes on knowledge to smaller farmers by demonstrating new varieties and new technologies. With its high standards in agricultural production the farm plays a leading role in promoting sustainable agriculture in the Beijing metropolitan area. The cooperative approach enables neighboring farmers to enrich the vegetable supply through order-based production, and in turn improve their livelihoods.



Introducing Yinhuang Farm

Owned by Aiteng Qin



Location:

Baishan Village, Changping District, Beijing.



History:

Established in 2008, the company has set up 70 solar greenhouses and 2 glass greenhouses. It sells its produce to supermarkets, restaurants, kindergartens and the neighborhood community.



Soil:

A combination of fluvo-aquic soils and substrate soil mixtures serve as growing media.



Crops:

Fresh market tomatoes as key crop as well as strawberries, sweet pepper, lettuce, cucumber and more.



Partners:

Beijing Plant Protection Station; Beijing Agri Technology Promotion Center, Beijing Soil and Fertilizer Station, Changping Plant Protection Station China Agricultural University.




Yinhuang Farm

Farm Profile



Key Elements

- 1 Quality varieties for quality fruits**
Constant testing and screening of new varieties to meet consumer tastes, and to cultivate high quality seedlings in large scale to ensure a stable yield and quality fruits.
- 2 Cultivation media, irrigation & fertilization management**
With expertise and high-end equipment, the crop can be monitored very precisely, allowing the farmer to prepare the appropriate soil substrate, adjust irrigation and fertilization schemes in a timely manner.
- 3 Smart crop protection product use**
A tailored crop solution approach, that uses government-certified crop protection products, also known as green products, enables effective pest and disease control, and meets a high food safety standard.
- 4 Integrated pest management**
A combination of chemical, biological, and physical crop protection methods helps reduce the use of chemical products and allows better pest resistance management.
- 5 Digital technology**
Digital tools help monitor and steer environmental parameters and nutrition to create optimal growing condition.
- 6 Responsible stewardship management**
Personal protective equipment, safe storage of input material, sanitary measures, environmental safety measures and training for highest safety standards.
- 7 Water protection**
With a special equipment set, and an effective bio-degradation process, product residues in wastewater are eliminated, minimizing surface water contamination.
- 8 Biodiversity**
Enhancements of habitats, such as flower strips, insect hotels and bird houses, help protect diverse wildlife species.
- 9 Soil protection**
Planting of cover crops help enhance the soil micro-organism ecosystem and restore soil vitality.
- 10 Transparent tracking & tracing**
BayG.A.P. training, documentation, and certification allow tracking and tracing across the whole value chain – from glasshouse to supermarkets and consumers.
- 11 Partnerships**
Bring together skills, expertise to demonstrate successful sustainable horticulture practice, build the bridge between farms and consumers to improve trust and understanding on modern agriculture.

 Tailored Solutions
 Proactive Stewardship
 Partnerships



Bayer ForwardFarming provides an up-close look at how farmers are practicing sustainable agriculture around the world. Unique in its global reach the Bayer ForwardFarming network serves as platform for knowledge sharing and dialogue. Forward-Farmers deploy technologies and best practices that reduce agriculture-related greenhouse gas emissions, decrease the environmental impact of crop protection, promote biodiversity and conserve natural resources.

On the ForwardFarms, progress towards the Crop Science sustainability commitments truly comes to life.

Bayer ForwardFarming demonstrates solutions that support sustainability in agriculture across the following three components:

// **Care for Crops** – Every farm is different, and every field within a successful farming operation is unique. **Tailored Solutions** are needed to meet the needs of the individual farmer and their specific field – from the right seeds and traits to the correct type and amount of crop protection, to the digital tools and services that allow for good decision making and precision.

// **Care for the Planet and People** – ForwardFarming promotes and demonstrates **Proactive Stewardship** to protect human health and preserve the environment. Examples include addressing the safe and responsible use of crop protection products; soil health, biodiversity, and water conservation; and offering training in all of these areas.

// **Care for Partnerships** – Bayer ForwardFarming fosters **Partnerships** with agricultural value chain actors, research centers, universities, and other institutions to strengthen sustainable farming development.



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