Netafim™ Precision Irrigation Solutions in Agri Voltaic

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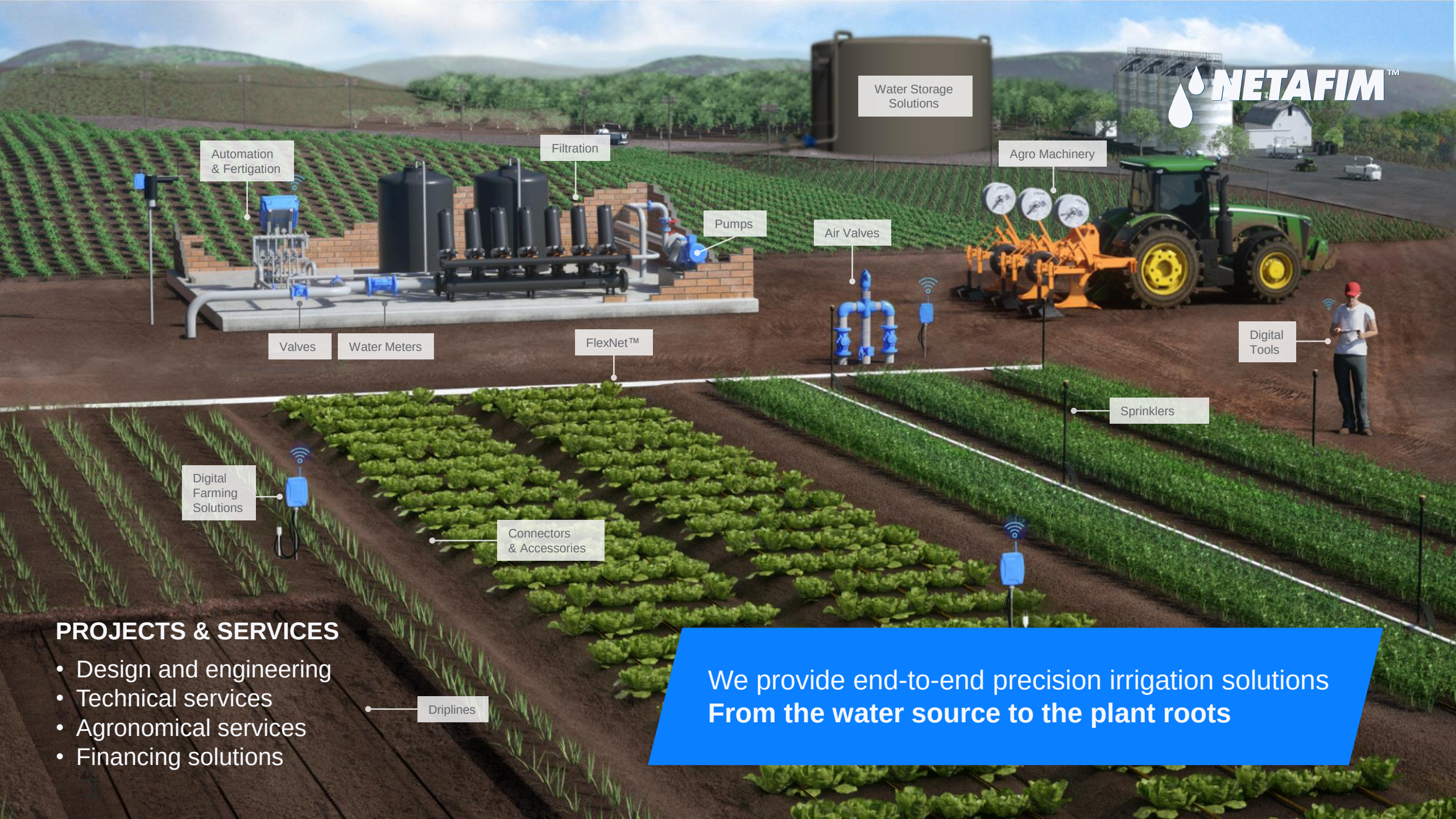
Agenda

1 Agri Voltaic Advantages & Opportunities

2 Netafim™ Agri Voltaic Case Studies

3 Netafim™ Solutions in Agri Voltaic



PROJECTS & SERVICES

- Design and engineering
- Technical services
- Agronomical services
- Financing solutions

We provide end-to-end precision irrigation solutions
From the water source to the plant roots


NETAFIM™
GROW MORE WITH LESS

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1%

Agri Voltaic - Advantages & Opportunities

For the **World**

- Meet renewable energy global targets
- Sustainable alternative to fossil fuels
- Reduces fossil fuel and air pollution
- Free source of Energy
- Improves land use

For the **Entrepreneur / Farmer**

- Generates additional income
- Land allocations for solar activity
- Reduces land competition
- Reduces manual & mechanized actions in the field

For the **Solar Panel**

- Improves PV modules microclimate
- Reduces dust
- Higher efficiency of bifacial modules
- Maintains clean solar panels

For the **Crop**

- Adjusts solar radiation
- Saves water
- Protects crops from extreme weather conditions
- Uses dual PV mounting structure

Case Study – Netafim™ Agri Voltaic

Customer: Ningxia Baofeng Energy Group Co.

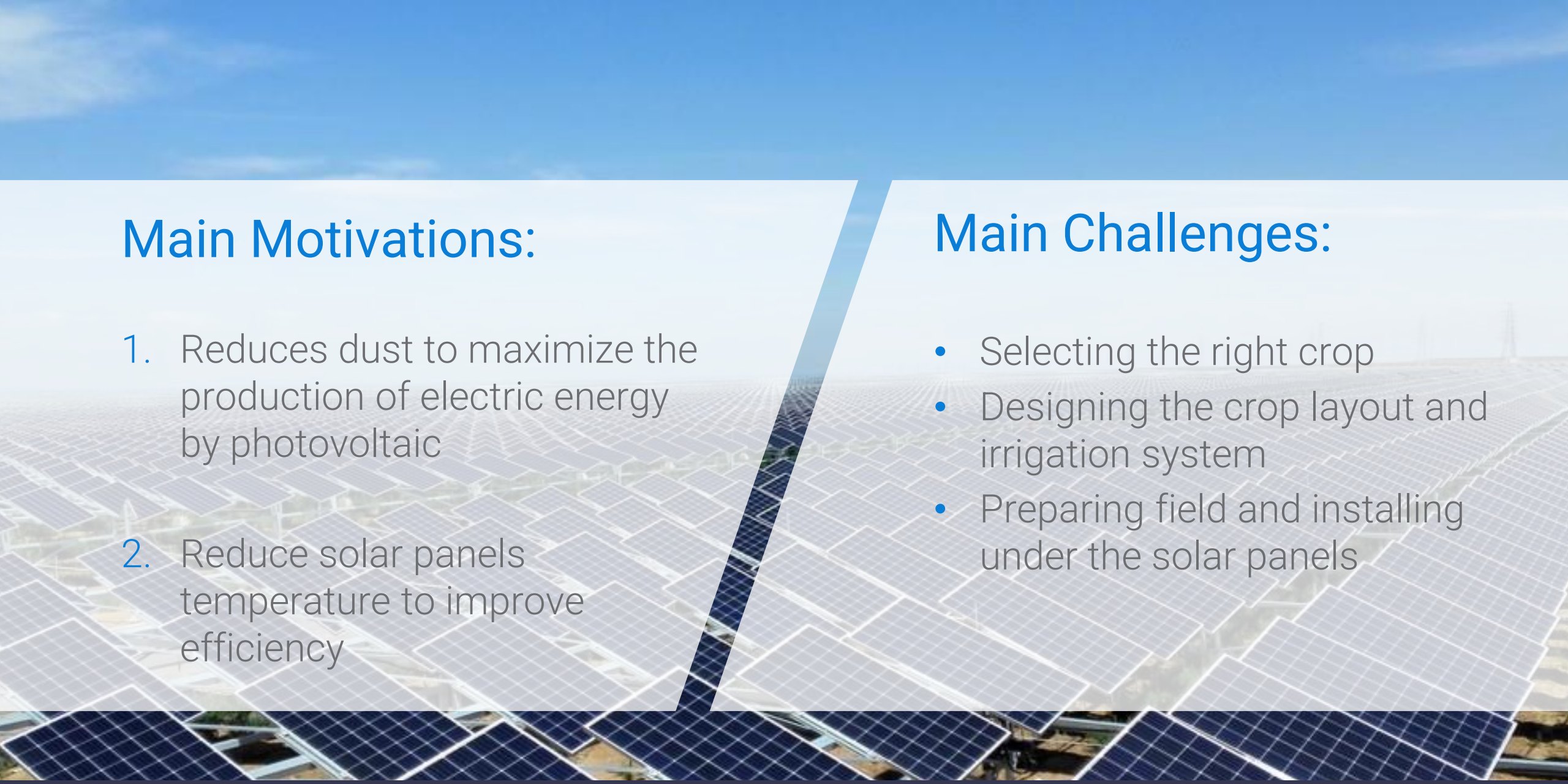
Area: 800 ha

Solar array design:

Height – 3m

Spacing - 6.8m X 8.9m

Type of soil: Sandy loam



Main Motivations:

1. Reduces dust to maximize the production of electric energy by photovoltaic

2. Reduce solar panels temperature to improve efficiency

Main Challenges:

- Selecting the right crop
- Designing the crop layout and irrigation system
- Preparing field and installing under the solar panels

1

Design & Planning

2

Execution

3

Operations and Maintenance

Select the Right Crop:

Goji-berry

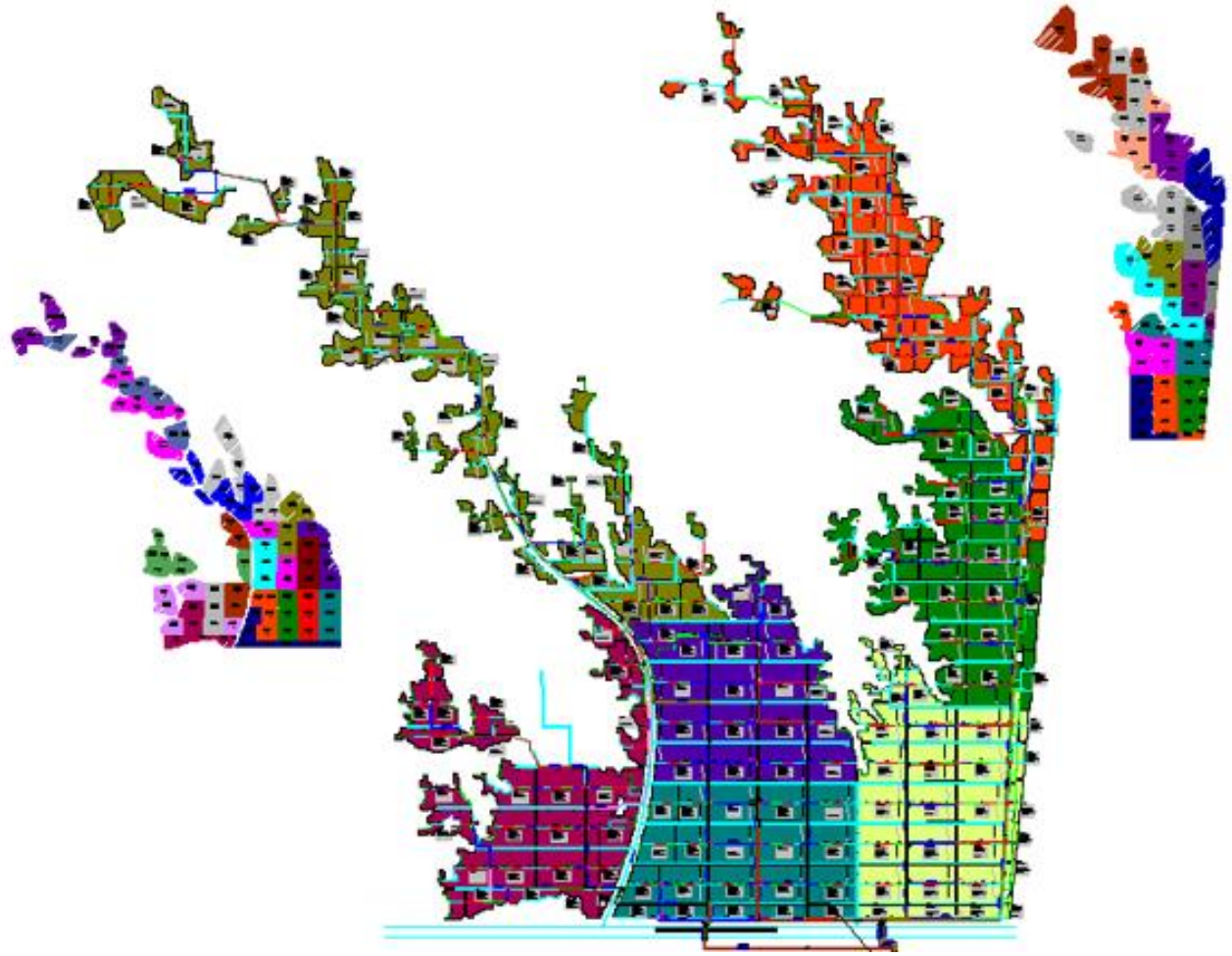
known as a superfood - has been consumed for generations by those wishing to live longer

1

Design and Planning

Design the Crop Layout and Irrigation System

- Crop layout - 3.4 x 1.0m, North-south direction
- Daily water consumption - 4mm/day
- Drip irrigation DripNet™ by Netafim
- 3.4 hours per irrigation cycle

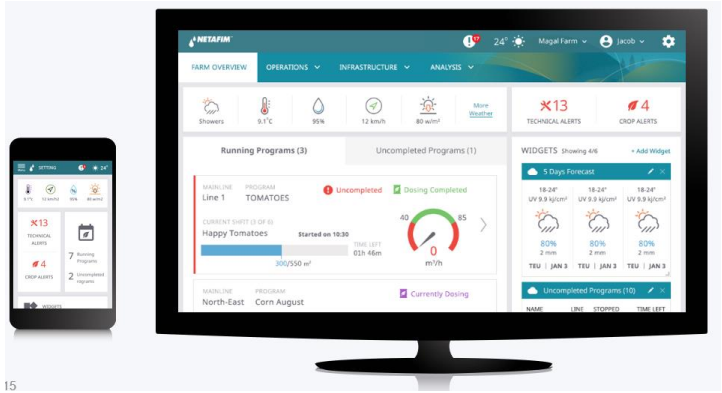


Field Preparation and Installation Under the Solar Panels

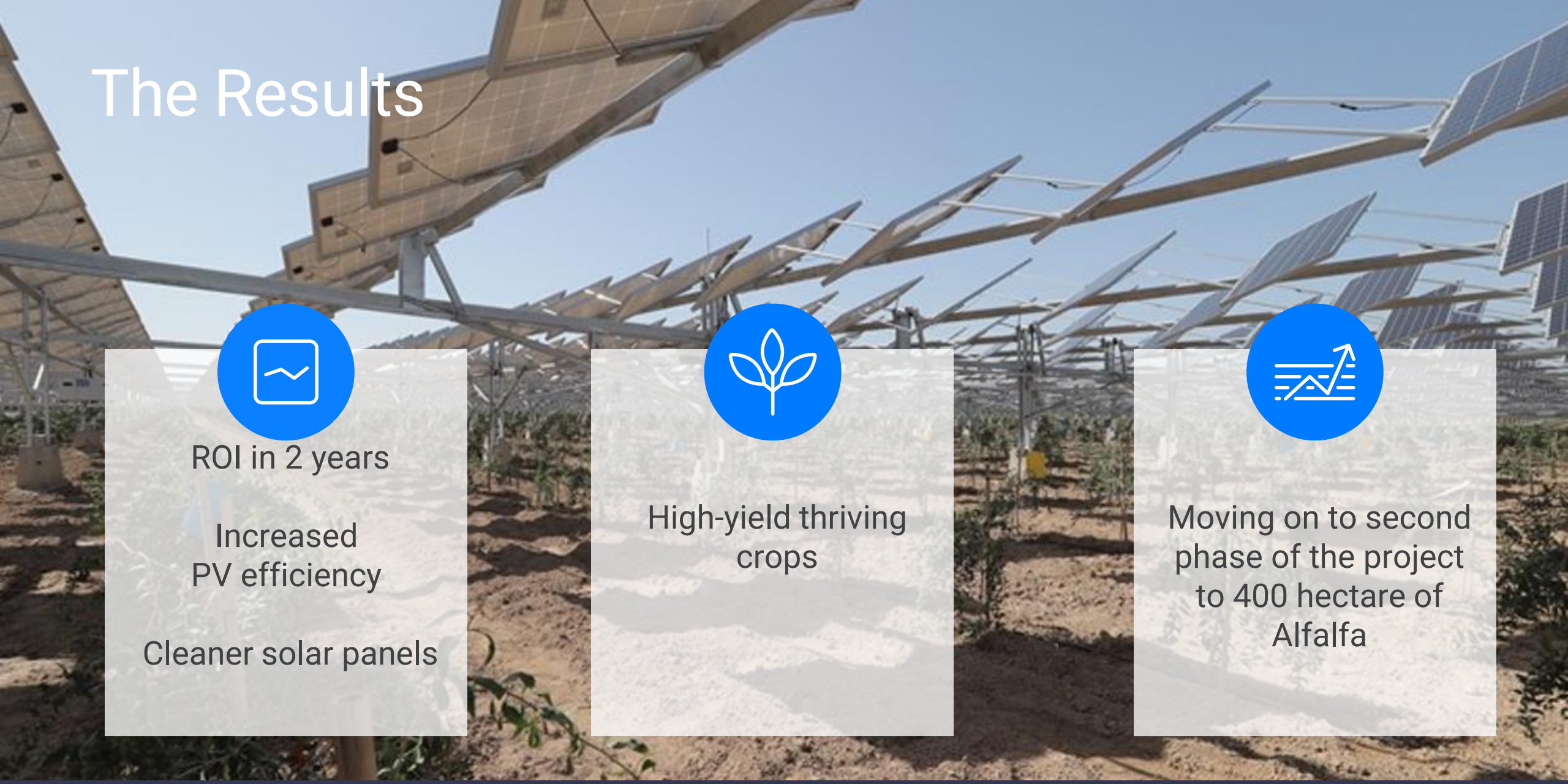
- Our team coordinates every aspect of the project's implementation - we construct, manage, and execute the entire project so it is completed on time, according to spec, and on budget.

Operations & Maintenance

- Agronomic support
- Technical support
- Crop management optimization based on innovative monitoring system



The Results



ROI in 2 years

Increased
PV efficiency

Cleaner solar panels

High-yield thriving crops

Moving on to second phase of the project to 400 hectare of Alfalfa

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Case Study 2 – Netafim™ Agri Voltaic

Customer: Ningxia Baofeng Energy Group Co.

Area: 400 ha

Crop: Alfalfa

Irrigation: Netafim™ sprinklers system GYRONET™- 6mm/day

Netafim™ Solutions in Agri Voltaic

Managing Agri Voltaic project from idea to execution

Precision irrigation solutions

Agronomic support

PV mounting structure design and manufacturing

Crop protection by sprinklers system integrated with the constructions

Reflective fabric layer offers agronomic benefits with production of electric energy optimization

Solar panels flushing system

Innovative monitoring and automated crop management system

Thank You

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