



18-19 November 2021

Presentation for Economic Days in Adana

*Solar Energy
for you!*



Botschaft
der Bundesrepublik Deutschland
Ankara

Executive Summary

- Specialist in project development and installation (EPC = Engineering, Procurement, Construction) of turnkey photovoltaic systems of all sizes locally and abroad
- Service provider for technical service, maintenance and monitoring (O&M = Operation and Maintenance) and commercial operation (Asset Management) of solar parks
- Development of new innovative business areas in the field of solar energy production and use (“Direct Electricity”, “Food & Energy”)
- Integral part of the Schrum-Tauschke Group as an operative core company
- Long-standing customer structure consisting of capital investors, municipalities, commercial and private electricity users as well as property holding project companies of the Schrum-Tauschke Group

650MW

solar power successfully installed in Germany and increasingly also in Europe

350MW

solar power in Germany and abroad currently under contract for service, maintenance and monitoring

Since
2004

continuous profitable
business development

Historic Milestones

2004

Founded as a purchasing association and planning company

2007

Launch of the "SUNfarming" quality label for solar modules

2010

Installation of the first megawatt projects in Germany

2017

Successful market entry and installation of large-scale projects in Turkey

2016

Annual record for installed PV plant capacity of 60 MW

2014

Installation of the first large-scale projects abroad (Great Britain) and establishment of subsidiary in Turkey

2018

Business model in Turkey focused on F&E and unlicensed PV projects until 2018

2021

With legislation changes in Turkey, our interest shifted towards self-consumption and hybrid projects

SUNfarming

Where are we?



United Kingdom

Poland

Germany

Turkey

China

Dominican Republic

Burkina Faso

Togo

Uganda

Kenya

Peru

Namibia

Mauritius

Madagascar

South Africa



SUNfarming Quality Control System

Regular module tests and continuous quality control by TÜV Rheinland or PI Photovoltaik-Institut Berlin as well as by our own and contracted engineers abroad

Extensive certifications: IEC 61215, IEC 61730, UL 1703, MCS and CE certification, ISO 9001:2008 Quality Management System, ISO 14001:2004: Standards for Environmental Management System

Independent expert opinion from 2019 confirms an average over-performance of more than 7% for the years 2013 to 2018 compared to the yield expectations* for PV plants constructed by SUNfarming GmbH



Competitive Strengths

SUNFARMING

Many years of international experience

in the development and installation of turnkey photovoltaic systems

High industry expertise

in all aspects of the energy sector

Wide range of contacts

to customers and decision makers

Marketing security

by property holding project companies of the Schrum-Tauschke Group

Joint use

of personnel, material and other resources within the Schrum-Tauschke Group

High quality standards

and comprehensive quality assurance

SUNfarming

Food and Energy

SUNfarming Food & Energy is a unique concept with the combination of high quality photovoltaic (PV) technology and food production facilities (bio-horticulture and vegetable production by drop irrigation.)

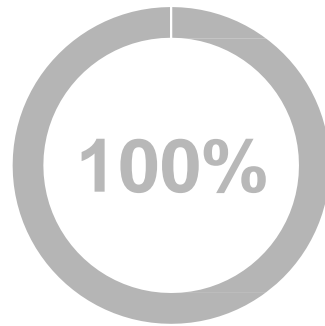
Unlike a traditional solar plant which employs very few people, a Food & Energy plant creates many additional sustainable jobs. We create new jobs not only in food production & distribution but also in training. These new jobs result in significantly higher economic and social impact.

SUNfarming

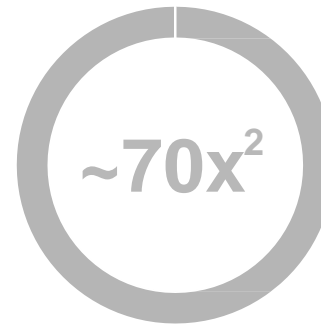
Food and Energy

Compared to regular solar plants, Food & Energy plants deliver up to 70x more jobs to the local population – according to the SRQ¹ impact study co-financed by DEG in 2019/2020

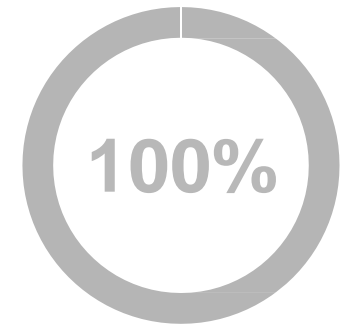
- Compared to regular solar plants, SUNfarming Food & Energy plants offer significantly higher added values to the local population
- This is fueled by the additional number of local jobs created



More food due to state-of-the-art technology and partnering concept



More jobs because jobs are sustained during the operational phase



Enhanced technology transfer and more training delivered to the local population



Additional tangible and intangible benefits to the local population

1)SRQ, the Steward Redqueen were engaged by SUNfarming to provide an ex-ante assessment of the potential development impact of a SUNfarming Food & Energy solution in Madagascar.

2) The Food & Energy facilities provide the infrastructure and training for ~2,000 more jobs for horticulture business in 40years operations.

SUNfarming

Food and Energy

Rathenow, Germany



Osmaniye, Turkey



Potchefstroom, South Africa



Madagascar



Why SUNfarming?

Recently won awards for our Food and Energy project, 2017-19

**Winner
Inter Solar Award
2017**

"Outstanding Solar Projects"

- ▶ In the 2017 jubilee year, 133 projects from 21 countries were sent for the coveted IntersolarAward
- ▶ SUNfarming was able to win the award in the category "Outstanding solar projects"



**Top 3
Greentec
Awards
2018**

"Sustainable Development"

- ▶ The GreenTecAward has become the world's most important environmental award
- ▶ Great stage for large and small companies to present the best projects for environmental protection



**Winner
Eurosolar Award
International
2019**

"One World Cooperation"

- ▶ Eurosolar annually honors role models and pioneers in the field of renewable energy
- ▶ The prize aims to honor new impulses for a renewable and decentralized energy transition in Europe



Osmaniye

Food and Energy Project

**SUNfarming
Training Centre**

**Turkey
November 2019**

“Refugees are trained in horticulture technics“

- 800 Trainees per year
- 150 Entrepreneurs per year
- Over 1000 Trained people since opening:
 - 60 certified installers
 - 930 certified trainees in Food & Energy basics
 - 27 certified trainers (Train the Trainer Program)
- 1 MWp of Food & Energy plant



Osmaniye

Food and Energy Project

Vegetable and Food Production – Training from farming to wholesale

The SUNfarming training not only teaches farmers how to plant and harvest. We also teach them how to create and sustain a profitable business.

All SUNfarming courses, already given and tested at our different training centres, consists of courses in the following:

1. Hydroponics
2. Plant Nutrition
3. Growing media
4. Water quality and management
5. Planting and cultivating
6. Sales and Marketing
7. Aquaponics
8. Chicken breeding

The trainings typically last 3 weeks, with a focus on both practical and theory.



With the skills learned at the Food & Energy centre, farmers are prepared to start their own businesses and become independent, with supervision and help from SUNfarming experts.

Osmaniye

Food and Energy Project



Project Partners



Federal Ministry
for Economic Cooperation
and Development

KfW DEG

The Food & Energy Training Center in Turkey was realized with the support of KfW / DEG as Private Partnership Project.

Osmaniye

Food and Energy Project



Contact

THANK YOU



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