



GÜNEY GRUP ENERJİ ÇEVRE DANIŞMANLIK

GÜNEY GRUP ENERJİ ÇEVRE DANIŞMANLIK A.Ş. is an affiliate of
GÜNEY PROJE TAAH. SAN. TİC. LTD. ŞTİ.



GÜNEY GRUP ENERJİ

- ✓ GÜNEY GRUP ENERJİ – COMPANY OVERVIEW
- ✓ SOLAR ENERGY – POWER PLANT MODELS
- ✓ SOLAR ENERGY – INVESTMENT SERVICES



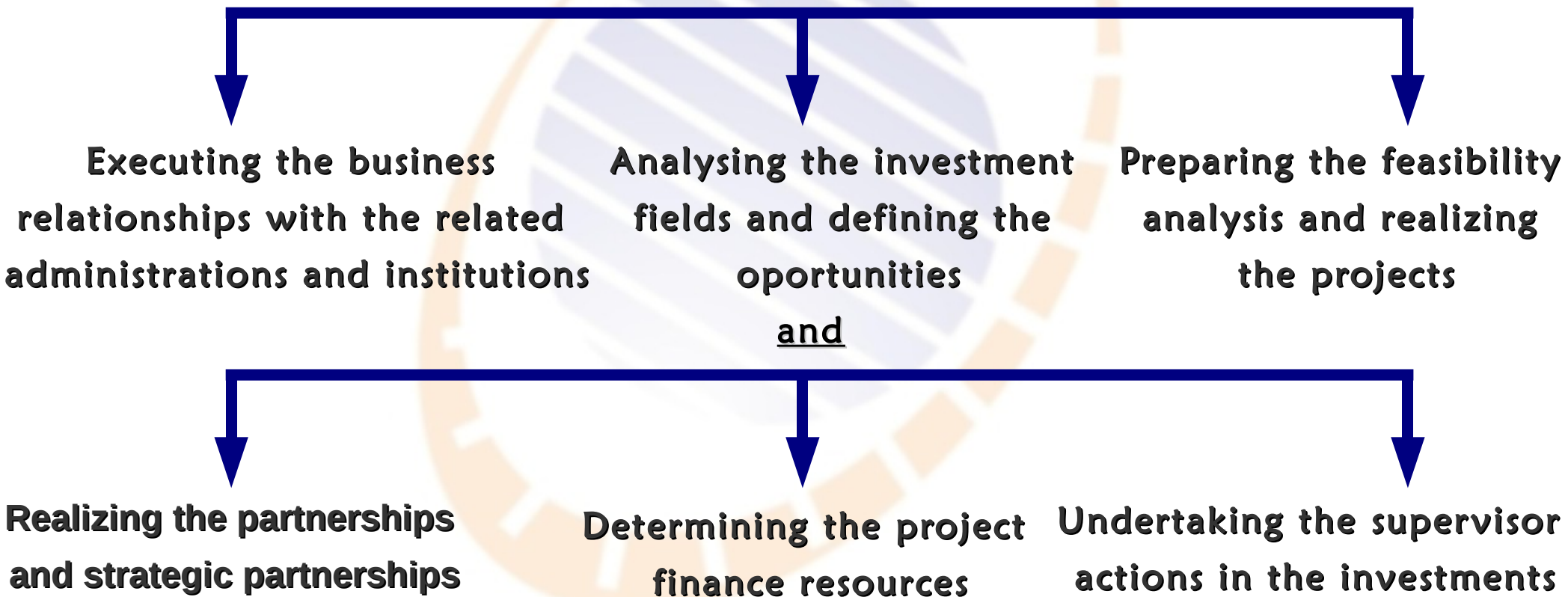
GÜNEY GRUP ENERJİ – COMPANY OVERVIEW

- ✓ Güney Grup Enerji , is an affiliate of Güney Proje , which was established in 1991 and headquarter is located in Ankara.
- ✓ Leading scope of businesses of Güney Grup Enerji are energy , environment and waste treatment issues.
- ✓ Güney Grup Enerji continues to execute the studies for realizing Turkey's first concentrated solar power plant, with its strategic partners.



GÜNEY GRUP ENERJİ – COMPANY OVERVIEW

SERVICES and SOLUTIONS





SOLAR ENERGY - POWER PLANT MODELS

SOLAR ENERGY POWER PLANTS CAN BE EXAMINED
IN TWO MAIN TITLES

PV and PV/T APPLICATIONS

PV

Photovoltaics converts sunlight directly into electricity.

PV/T

Photovoltaic thermal hybrids converts electromagnetic radiation into electricity and thermal energy.

CONCENTRATED SOLAR POWER PLANTS

Concentrating Solar Power (CSP) systems use lenses or mirrors to focus a large area of sunlight into a small beam. The concentrated light is then used as a heat source for a conventional power plant for electricity production. Excess heat can be used for heating/cooling purposes and for water treatment.



SOLAR ENERGY - POWER PLANT MODELS

SOLAR ENERGY POWER PLANTS CAN BE EXAMINED
IN TWO MAIN TITLES



**PV and PV/T
APPLICATIONS**

**CONCENTRATED SOLAR
POWER**

PV



PV/T





SOLAR ENERGY - POWER PLANT MODELS

WIDELY - USED PV MODELS IN THE WORLD

MONOCRYSTALLINE

✓ All material is composed of sole crystalline and the atomic structure of the material is homogenous

POLYCRYSTALLINE

✓ All material is composed of more than one monocrystalline , where the material is heterogenous

AMORPHOUS - SILICON

✓ Contains copper, indium and diselenid





SOLAR ENERGY - POWER PLANT MODELS

WIDELY – USED CONCENTRATED SOLAR POWER MODELS IN THE WORLD

LINEAR
FRESNEL CSP



SOLAR
POWER TOWER



PARABOLIC
DISH SYSTEM



PARABOLIC TROUGH
TECHNOLOGY





SOLAR ENERGY – INVESTMENT SERVICES

SOLAR POWER PLANTS



PRELIMINARY WORKS

- ✓ Preparation of feasibility report in the titles of measured solar data and site evaluation, determination of technology and financial studies

APPLICATION WORKS

- ✓ Execution of the application works including project preparation, licensing studies, preparation of the physical areas and production infrastructure and commissioning

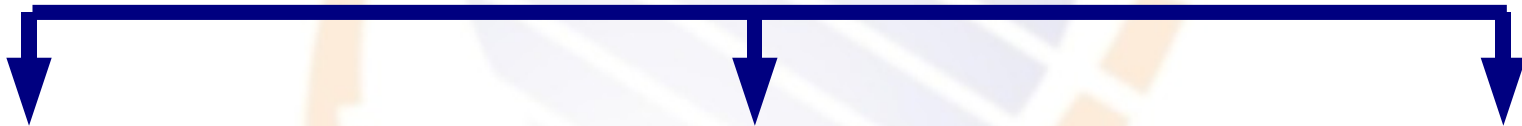


SOLAR ENERGY – INVESTMENT SERVICES

IN THE RENEWABLE ENERGY INVESTMENTS
GÜNEY GRUP ;



SOLAR ENERGY
preliminary work services



SITE IDENTIFICATION

- ✓ SOLAR RADIATION ANALYSIS
- ✓ SITE EVALUATION
- ✓ INFRASTRUCTURE ANALYSIS
- ✓ ENVIRONMENTAL IMPACT ASSESSMENT

TECHNICAL ANALYSIS

- ✓ DEFINITION AND SELECTION OF THE TECHNOLOGY

DEFINING CO-FINANCING OPPORTUNITIES

- ✓ CARBON PROJECTS



SOLAR ENERGY – INVESTMENT SERVICES

SITE IDENTIFICATION

SOLAR RADIATION ANALYSIS

- ✓ SUNSHINE DURATIONS
- ✓ SOLAR RADIATION DATA

SITE EVALUATION

- ✓ OBTAINING MAPS
- ✓ TOPOGRAPHY
- ✓ AGRICULTURAL VALUES AND WATER RESOURCES
- ✓ EVALUATION OF THE CULTURAL AND NATURAL VALUES THAT NEEDED TO BE CONSERVED
- ✓ OTHER PROJECTS OF THE DIFFERENT ADMINISTRATIONS
- ✓ MILITARY PURPOSE USAGES

INFRASTRUCTURE ANALYSIS

- ✓ ROADWAY AND AIRWAY TRANSPORTATION
- ✓ TRANSMISSION LINE AND SUBSTATION

ENVIRONMENTAL IMPACT ANALYSIS

- ✓ CLIMATIC ANALYSIS
- ✓ REGIONAL ECONOMY AND INDUSTRY

DETERMINATION OF THE REQUIRED SITE SIZE FOR THE AIMED INSTALLED CAPACITY , PROPRIETORSHIP AND VALUE ASSESSMENT



SOLAR ENERGY – INVESTMENT SERVICES

CARBON PROJECTS

Certification of the renewable energy power plants such solar, wind, hydro, in the context of Kyoto Protocol, which is signed according to United Nations Framework Convention on Climate Change and execution of the emission trade applications

ENERGY INVESTMENT PROJECTS

The evaluation of the energy investment projects and analysis of the feasibility reports , where the alienation or partnerships are concerned



GÜNEY GRUP ENERJİ

Güney Grup Enerji gains its power
from its dynamic structure and
from the integrity formed with its strategic
partnership collaborations.

ZORLU ENERJİ



BNP PARIBAS

 MANIERO
ELETTRONICA



dr. stötter GmbH



FOCUS solar
knowledge driven solutions in solar energy

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