

Members Group



GHODS NIROO



SANERGY



AVANGAN



HEDAYAT NOOR



SUNIR



NIROU TRANS



IRAN TRANSFO



PARS SWITCH



IREEE



PCGFV

Power Cooperation Group
For Venezuela (**PCGFV**)

Power Cooperation Group For Venezuela

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GHODS NIROO



GHODS NIROO

Engineering Company (GNEC)

GNEC's activities comprising: Engineering services, consulting, performing projects as EPC, EP and MC in the following fields:

- Steam power Plants
- Gas turbine power plants
- Combined cycle power plants
- Power plants industries
- H.V Substations and switchyard
- H.V Transmission and distribution networks System studies, and design of electrical networks
- Mechanization of urban distribution networks, industrial production lines and factories
- Dams, irrigation environmental studies
- Hydraulics Power plants
- Oil and Gas industries

05

Power, Water, Oil and Gas

GNEC with a total workforce of more than 1000 out of which 500 are qualified and experienced Engineers and Manager has the required resources and capability to be your reliable partner in Iran and abroad:

- We have been the main consultant on 23, 000 MW of new power plants in Iran.
- We have designed, engineered supervised and commissioned more than 350 high voltage (63 up to 400 kV) Substations and Switchyards in Iran and abroad.
- We have designed, engineered erected and commissioned more than 25,000 Km of high voltage Transmissions lines.
- We are responsible for the design and supervision of 20 dams and hydropower plants with associated water transmission lines and irrigation projects.
- We are handling Management Contact (MC) for design, procurement, and construction, start up and commissioning of 504 Km of 56-inch diameter sour Gas pipelines.

When you think of Energy, remember GNEC As your reliable partner in the following fields:

- Conceptual Design
- Site investigations
- Detail Design
- Architectural Engineering
- Civil Engineering
- Electrical, Control and Instrumentation Engineering
- Mechanical and Chemical Engineering
- Building and Structural Engineering
- Water Resources and Environmental Engineering
- Dam and hydropower Engineering
- Cost Evaluation and Quality Management
- Test and Commissioning Projects
- Projects Management
- Management Contract
- Purchasing Material and Equipment
- Site Supervision
- Project control
- Material Inspection and quality control
- Construction Management
- EPC and MC Contracts





**You need POWER to PROGRESS
You need GNEC to give you the POWER**

DEVELOPMENT AND BUSINESS EXCELLENCE IN GNEC MANAGEMENT SYSTEM

- Receiving certificate of commitment to Excellence from Iranian national productivity and business excellence awards (2004-2005).
- Receiving letter of appreciation as one of the superior Companies, in technology management festivity. (Ministry of energy 2005).
- Selected as one of the superior Companies and also first in consulting Engineering Group in water & power supply and water & sewage (2005).
- Received letter of appreciation from the sixth festival for productivity and quality in electric industry (2005).
- Received Iranian national quality award based on "EFQM" model in the level of "RECOGNIZED FOR EXCELLENCE" (2006).
- Received certificate of Integrated Management System (IMS) comprising:
 - ISO 14001:2004, ISO 9001:2000 and OHSAS 18001:99 (2007).
 - Active Presence in European quality management award in 2007.



**Committed To Clients
Committed To Progress**

For further details contact the Marketing Division at:

Email: info.ghods-niroo.com
Web Site: www.ghods-niroo.com



AVANGAN



AVANGAN

AVANGAN COMPANY WAS FOUNDED IN 1974 BY JOINT INVESTMENT OF "IDRO" AND "SATKAB" CO. UNDER LICENSE AND SUPERVISION OF "SAE" CO. IN ITALY, IN ORDER TO DESIGN, MANUFACTURE AND GALVANIZING STEEL TRANSMISSION AND COMMUNICATION TOWERS .

FACTORY IS SITUATED IN THE CITY OF ARAK ABOUT 300 KILOMETER SOUTH OF TEHRAN CONSTRUCTION ACTIVITIES OF THE COMPANY ACCOMPLISHED IN 1982 AND MANUFACTURING STARTED WITH NOMINAL CAPACITY OF 22500 TONS PER YEAR AND HAS BEEN INCREASED TO 50000 TONS ANNUALLY DURING RECENT YEARS. FINALLY, THE PRIVATE SECTOR PURCHASED ALL THE SHARES IN 2004 AND THE COMPANY BECAME PRIVATE.

MAIN PRODUCTS AND CAPABILITIES :

- 1-TRANSMISSION TOWERS (SINGLE & DOUBLE) UP TO 500 KV.
- 2- SELF SUPPORTING AND GUYED TELECOMMUNICATIONS UP TO 117 M AND 300 M RESPECTIVELY.
- 3-GANTRIES & SWITCHYARDS STRUCTURES FOR SUBSTATIONS.
- 4-RADIO & TV MASTS, TELE CABIN AND SIMILAR STRUCTURES.
- 5-EQUAL LEG ANGLES FROM 60*60mm TO 120*120 mm.

DESIGN AND ENGINEERING DEPARTMENT WITH A TEAM OF SENIOR DESIGN ENGINEERS AND OTHER EXPERTS INCLUDING OVER 70 EXPERIENCED EXPERTS REPRESENTS A SOURCE OF VAST TECHNOLOGY IN DESIGNING ALL TYPES OF TOWERS. GALVANIZING OF MANUFACTURED PRODUCTS IS CARRIED OUT IN THE GALVANIZING WORKSHOP WITH AN AREA OF 7500 SQM. INCLUDING 12 CERAMIC TUBS FOR DEGREASING PICKLING, RINSING AND FLUXING OF PARTS AND TWO SEMI AUTOMATIC GALVANIZING LINES ,EACH CONSISTING OF MOLTEN ZINC KETTLE WITH DIMENSION OF 13*1.45*1.0 m AND THE CAPACITY OF 50000 TONS PER YEAR IN ORDER TO MAKE A PROTECTIVE ZINC COATING ACCORDING TO STD. ASTM A123 OR OTHER SIMILAR STANDARDS AGREED WITH THE CLIENTS. AVANGAN MILL PLANT BASED ON THE MOST MODERN UP TO DATE STATE OF THE ART ROLLING MILL TECHNOLOGY IS CAPABLE OF PRODUCING MORE THAN 100,000 TONS OF ANGLES ANNUALLY FROM SIZE 60*60mm TO 120*120mm ACCORDING TO THE STANDARD DIN-EN 10056-94 DIN-EN 10056-2-94 FOR GRADES ST 37-2 ST44-2 AND ST52-3.





WEB SITE: WWW.AVANGAN.COM
E-MAIL: INFO@AVANGAN.COM



HEDAYAT NOOR

Optical Fiber and Solar Energy Co.

Production of optical fiber

The Optical Fiber and Solar Energy Company, embarked on manufacturing G.652 Single Mode Optical Fibers type for telecommunication application in 1993 . In this production line the fiber perform is produced by MCVF method. Then the sleeved perform is drawn to fiber in the drawing tower.

Production of solar cells and panels

The photovoltaic cells and panels manufacturing unit of the Optical Fiber and Solar Energy Company was established in parallel with optical fiber production line in 1993. This unit received the CE product Certification from SGS-TÜV Institute for the photovoltaic panels. At present, this company is the exclusive producer of photovoltaic panels in Iran which has been licensed by the Ministry of Industries and Mines. Also, this company is the representative of UNESCO in Iran for holding educational courses in the fields of renewable energies including photovoltaic, wind, biogas, etc.

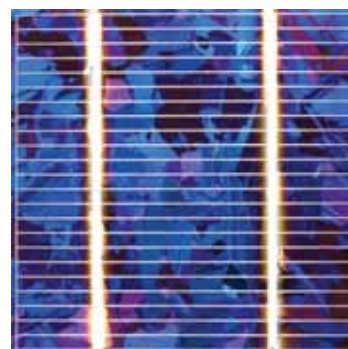
Solar Cells

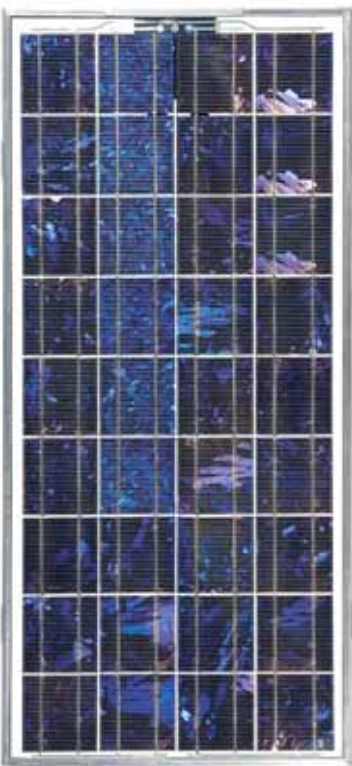
Photovoltaic cells manufactured in the company are of polycrystalline type with the dimensions of 10cm x 10cm and have the following specifications

Power : 1.3W
Voltage: 0.45V
Current: 2.7A
Thickness: 300 microne

45-watt Photovoltaic Panels

Each photovoltaic panel is comprised of 36 solar cells which are firstly welded together by means of ultrasonic devices and then are laminated in a specific temperature in order to increase the resistance of the cells and the panel. After that, the connection box and the frame around the panel are installed and then are insulated. Finally, after testing all of the panels by the measuring unit, panels are packed and transferred to warehouses.





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Panel Specifications:

Power : 45 W
 Voltage: 16.5 V
 Current: 2.73 A
 Weight: 7.7 Kg
 Dimensions:11 mm x 462mm x 977mm

Photovoltaic panels produced by Optical Fiber and Solar Energy Company endure the ambient temperature of 50-90 Celsius degrees and the relative humidity of %100. Due to using steel and insulated frames, the panels are highly resistant against corrosion. Ductility against impacts, being manufactured in the form of Double Glass and application of ultrasonic welding on cells are other special features of the panels.

Some of the advantages of photovoltaic solar system are as follows:

- 1- Can be installed in the nearest possible place to the consumer
- 2- Long life
- 3- Usable in mobile systems
- 4- Non-pollution of environment
- 5- Easy installation and move
- 6- Output voltages with currents appropriate for different usages
- 7- No need to repair and maintenance
- 8- Producing energy after installation and removing the current expenses



IRAN TRANSFO



IRAN TRANSFO

PUBLIC JOINT STOCK

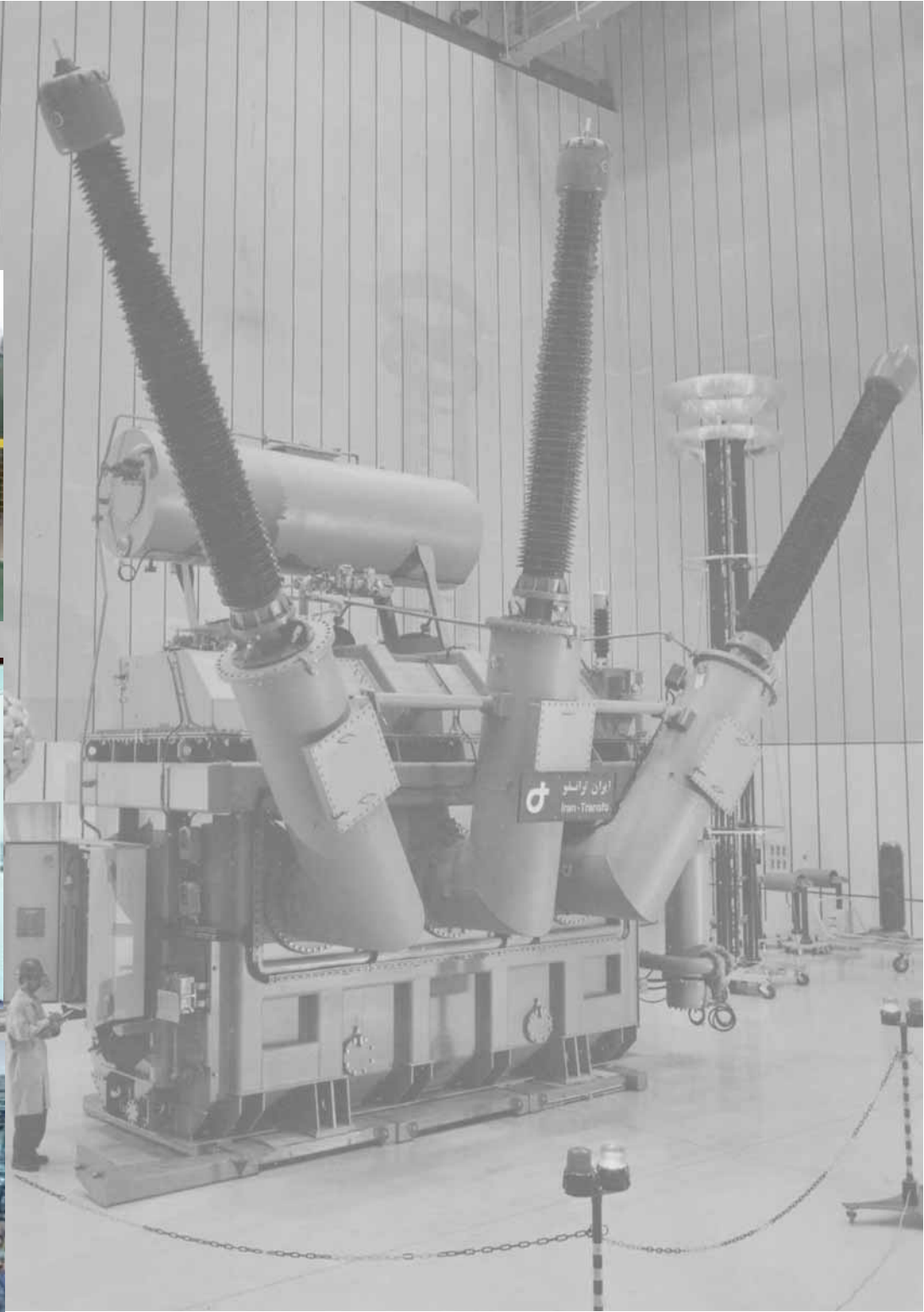
IRAN TRANSFO was established in 1967, under license of Siemens-Germany, for manufacturing transformers according to the international standards of IEC 60076 and VDE 0532. IRAN TRANSFO has obtained ISO 9001: 2000, SIEMENS AG EV TWN IEO, ELIN TRANSFORMATOREN GmbH, and KEMA short – circuit certificates.

IRAN TRANSFO provides the following products and services:-

- Oil –immersed distribution transformers up to 5000 KVA, 36 KV.
- Medium power transformers up to 100 MVA and 145 KV
- Large power transformers up to 500 MVA and 420 KV
- Dry type cast resin transformers up to 3150 KVA and 36 KV
- Earthing and auto – transformers.
- Compact and package kiosk substations up to 2500 KVA and 36 KV (fixed and mobile)
- Engineering, Procurement, Construction of HV substations (Conventional, Modular and GIS Substations), transmission lines and all industrial plants & projects.
- Insulating (Cellulose) components and materials used in oil-immersed distribution and power transformers.
- Various types of porcelain insulators up to 36 KV
- Transformer and switchgear oil and special solvents.

At present, IRAN TRANSFO exports to many countries such as Pakistan, Kuwait, Germany, Nigeria, Libya, Ethiopia, Cuba, Syria, Azerbaijan, UAE, Niger, Iraq, Afghanistan, Cyprus and...





For more information, please visit our website:

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IREEEE



IRAN ELECTRICAL EQUIPMENT ENGINEERING (IREEEE)

Iran electrical equipment engineering (IREEEE) is as a turnkey contractor for high tension transmission line projects, to provide complete services from engineering, procurement, construction, erection, test, commissioning and spare parts supply. IREEEE also is a leading company in the production of electrical equipment needed in overhead transmission line and has established some subsidiaries such in front order:

Pars Maghareh Company was established that produce the glass Insulators and Sim Noor Pooya Company was established as the first producer of OPGW & ACSR cables in middle east and Tarrah Gostaran Pooya Company for designing and producing of overhead transmission line tower in 1995 and Yaragh Avaran Pooya Company for transmission line & substation fittings In 1996.

IREEEE as EPC contractor for power transmission and distribution projects have taken part in lot of many EPC contracts in the Iran, Syria and Pakistan markets. At present IREEEE Co., as a leading company in power industry able to manage all aspects of the above projects at optimized cost, from front end engineering design to turnkey delivery.

Pars Maghareh Co.

Pars Maghareh Co Is the leading and the sole manufacturer of "toughened glass insulators" in territory and region with annual capacity of 10.000 tons of glass insulators. It is obvious that, this success is due to the valuable experiences and efforts of the company's board in power industries.

The range of products includes the full spectrum of standard and anti-fog insulators from 40KN to 300KN, which their electrical and mechanical characteristics are well beyond the specified values in related standards such as IEC, ANSI and BS. Pars Maghareh insulators have successfully passed the standard type tests in the most authorized international and national laboratories and the related quality certificates have been collected in this respect.

Sim Noor Pooya Co.

Sim Noor Pooya Co (SNP) was inaugurated in 1997. It started the activate with the manufacturing OPGW and ACSR wires.

Over years, SNP has manufactured, delivered and installed with hot line and normal line in large quantities for it's customer.

SCADA, control, automation and telecommunication projects are another activities of SNP.

SNP has tested all its products in well-known laboratories in the world. RWE license for hotline installation, ISO and draka comteq licencese are the certificate of SNP.





Head Office :

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NIROU TRANS



NIROU TRANS

which is affiliated to the Ministry of energy of Iran and established in 1990, is the reputable manufacturers of instrument Voltage and Current Transformers in the range of 7.2kV up to 550 kV, Condenser Bushings in the Range of 72.5kV up to 420kV, Generator Circuit Breakers, Coupling Capacitors, Wall Bushings and Combined Instrument Transformers up to 36kV. The technology of manufacturing the instrument transformers is acquired from **ABB** corporation, Sweden, condenser bushings from **HSP** Germany and generator circuit breakers from **ABB** Swiss. Tens of thousands of instrument transformers and other products of this company are operating Successfully for years in electrical installations of several countries in various climate conditions Quality and conformity with customers' requirements have been the main policy of Nirou Trans Co. All the instruments transformers and condenser bushings are type tested in **KEMA** laboratory, Holland and the routine tests are performed according to international well known standards or Customer Requirements, the related test report will be submitted for each instrument.

Nirou Trans Co. at a glance:

1998: Manufacturing 72.5-245kV Instrument Current and Voltage Transformers

1999: Manufacturing 420-550kV Instrument Current and Voltage Transformers Qualifying by SGS as an ISO-9001 quality system holder company

2000: Designing and manufacturing window type current transformers up to 36kV

2001: Manufacturing cast resin instrument current and voltage transformers up to 36kV

2002: Manufacturing 72.5-145kV condenser bushings

2004: Manufacturing high voltage capacitors in the range of 72.5kV up to 550kV

2005: Designing and manufacturing combined instrument transformers up to 36kV Getting all instruments type tested in **KEMA** laboratory-Netherlands

2006: Manufacturing 245-420kV condenser bushings under the license of **HSP** Germany Qualifying by as an ISO-9001-2000 quality system holder company

2007: Manufacturing 420kV button core current transformers by technology of **ABB** Sweden

2008: Manufacturing Generator Circuit Breaker under the license of **ABB** Switzerland

Field of activity:

- Current Transformer 6- 550 Kv
- Voltage Transformer 6-550 kv
- Condenser Bushing 72.5-420kv
- Wall Bushing
- CT Bushing
- Window Type
- Resin Parts
- Generatore Circuit Breaker





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PARSSWITCH



PARS SWITCH

Manufacturer of Medium and High Voltage
Circuit breakers and Disconnecter Switches

PARS SWITCH Co. was established in 1976 with collaboration of Iranian Satkab Company, Alstom Company of France, and other private share holders.

Pars Switch Company is the first and largest manufacturer of H.V and M.V. circuit breakers and disconnecting switches in IRAN. It is also known as a leader company in related working field in the Middle East.

Pars Switch has achieved the technology of high voltage products from ABB Sweden and the technology of medium voltage products from Alstom (France) and ABB Calor Emag (Germany).

Pars Switch has been divided in two factories, including medium and high voltage products.

All the mentioned products are in compliance with the IEC international electrical standard and type tested in international laboratories as KEMA and CESI. All production processes are carried out under strictly quality controls to assure the manufacturing end products accordance with the highest standards.

Pars Switch Co.

Exported its Products to Turkmanistan, Azarbaijan, Syria, Afghanistan, Niger and Sweden.And is interested in to Export to New Markets.

Products

- 1- EDF SF6 gas type C.B 72.5 KV ,2500A,31.5KA
- 2- LTB SF6 gas type C.B 145,170,245&420KV,3150-4000A,40-50KA
- 3- HPL SF6 gas type C.B ,2500-4000A, 40-50KA,245&420 KV
- 4- NSA disconnectors 36-420KV, 1250-3150A
- 5- Compact Bay 36&72.5KV
- 6- 63 KV urban substation
- 7-VD4 vacuum type C.B 7.2-36KV,630-4000A,16-31.5KA
- 8-FP SF6 gas type C.B 7.2-36KV, 630-2000A,16-31.5KA
- 9-FPS SF6 gas type C.B outdoor 24-36KV, 1250A,25KA
- 10-HL620 small oil volume type C.B 24KV,630 A, 12.5 KA
- 11-PGL Pole Mounted load break switch, SF6 , 24kv , 630A Outdoor
- 12-SL6&7-SP disconnectors, 24 &36 KV, 630 A





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Factory:
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Web Site: www.parsswitch.com



SANERGY

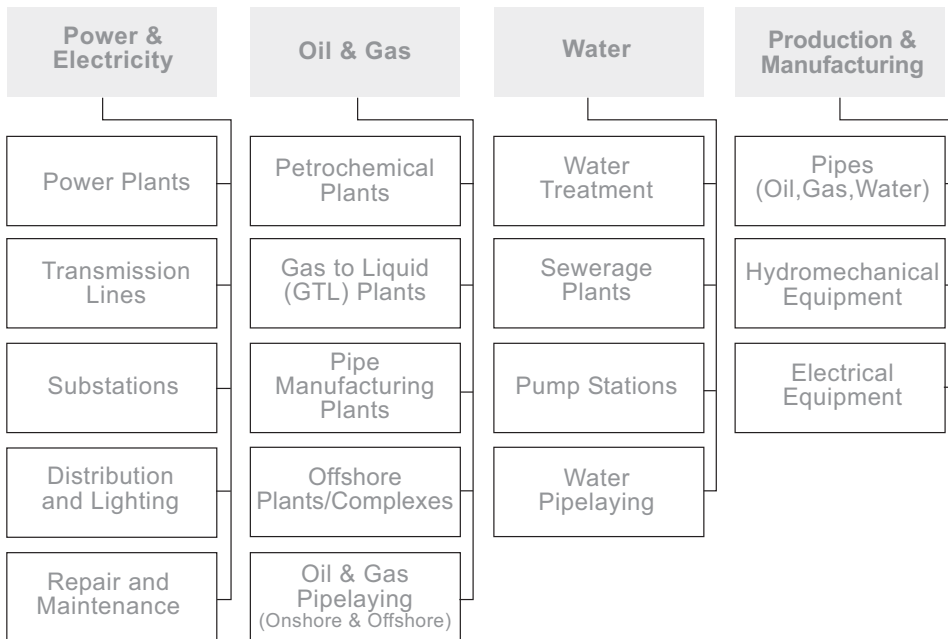


SANERGY

JUNTOS IO CONSEGUIMOS

With the rapid growth in industrial projects in the developing countries and the high competition in the GC/EPC contracting market, Sanergy enjoys the valuable and long term experience of its group members as the key asset. As a group of well-established companies, Sanergy is a leading Iranian GC/EPC contractor in the fields of electricity, water, oil and gas industries. Together with its group members and based on the long time achievements in international projects, Sanergy is committed to provide a wide range of services with the best quality, realized by a new approach to the concept of serving customers and hiring the latest technology.

Fields Of Activity



GROUP Members

Power & Electricity



Ahwaz Fanoos Engineering Co.



Alucast Co.



Dorood Kelid Bargh Co.



Iran Insulator Co.



Mazand Niroo Co.



Nirou Group



Namdaran Sanat Enteghal Engineering Co.



Pooya Gharb Co.



Rassaneh Co.



Sherkat Kontorsazi Iran (SKI)



Malor Co.

Oil & Gas



Iranian Offshore Engineering and Construction Co.(IOEC)



Sadid Industrial Group



SARV Co.

Water



Fanavary Novin Niroo Co.



Machine Sazi Vije (MSV)



Pars Omran Asia Consulting Engineering Co.



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