



 **novinSimia**<sup>®</sup>  
GROUP



# Novin Simia Group

## ELECTRICAL SERVICES

- Distribution Substations
- Distribution Networks
- Transmission Lines

## PRODUCTION

- Compact Transformer Stations
- MV and LV Distribution Switchboards
- Cable Management Systems

## RENEWABLE ENERGY

- PV-Solar
- Wind Farms

Novin Simia is a group of companies operating in the electrical industry of Afghanistan.

The group is consisted of two companies, Novin Simia Electrical Services provides EPC solutions for electrical projects including power substations, distribution networks, renewable energy power plants and transmission lines.

Novin Simia Production manufactures Compact Transformer Stations, MV and LV Switchboards, MV and LV ATS/MTS Panels, Meter Boxes, Capacitor Bank Panels, and Cable Management Systems for industry and utility operations, applicable in government, commercial and residential buildings.

## QUALITY, ENVIRONMENT & SAFETY

Novin Simia is honoured to announce that its quality and environment management systems have been assessed and certified to be in accordance with ISO 9001:2008 and ISO 14001:2004 respectively. Moreover, our occupational health and safety management system is evaluated and certified in accordance with OHSAS 18001:2007.







Novin Simia

# ELECTRICAL SERVICES

- Distribution Substations
- Distribution Networks
- Transmission Lines



## Novin Simia

# ELECTRICAL SERVICES

Novin Simia Electrical Services division offers key components for the transmission and distribution of electricity. The division provides design, installation and commissioning services for electrical projects in the Country.

Novin Simia scope of services covers power substation and distribution network projects and commissioning works. We have worked on multiple projects in these categories for various of Clients all over Afghanistan.

We are well experienced in implementation, installation and commissioning of 110 kV and 220 kV power substations. Novin Simia is performing the installation and implementation of several major power substations in accordance with International Standards in Logar, Kunduz and Kandahar Provinces.

We also successfully performed distribution networks. Novin Simia was the prime contractor to design and implement the power distribution network in Aino Mena Township in Kandahar for 23000 housing units in approximately 20000 hectares area of construction.

Having viable and diverse number of suppliers and integrated manufacturing capability, are key components for having our projects successfully completed. We hand over projects on-time and on-budget, thus we have a list of fully satisfied Clients.

## 220/20 kV Pul-e Alam Substation

NEPS Electrical Transmission Projects - Phase I, 220/20 kV Substation at Pul-e Alam, Logar Province, Afghanistan

- Voltage Rate 220 kV to 20 kV
- 4 × 16 MVA, 50 Hz, Power Transformers
- Double Main Bus & Transfer Bus system
- 2 Incoming/outgoing 220 kV & 4 outgoing 20 kV feeders

Client: US Army Corps of Engineers (USACE)

Prime Contractor: Assist Consultants Inc.

🕒 Jun. 2016 to Dec. 2017 (scheduled)

📍 Pul-e Alam, Logar Province, Afghanistan

Pul-e Alam substation has two 220 kV line bays, four 220/20 kV transformers rated 16 MVA each, 20 kV yard with indoor switchgear. This substation plays a strategic role for power distribution in the Province. Four outgoing 20 kV feeders will energize important areas/facilities within the Province including Pul-e Alam City, Kabul-Logar Highway, major towns, numerous villages where power is needed for agricultural purposes. Novin Simia is responsible for provision of installation, testing and commissioning services the Pul-e Alam substation in Logar Province.



## Two 110/20 kV Substations – Maiwand and Pushmol

SEPS Kandahar Substations and Electrical Transmission Projects, 110/20 kV Substations at Pushmol and Maiwand, Kandahar Province, Afghanistan

- Voltage Rate 110 kV to 20 kV
- 2 × 4 MVA, 50 Hz, Power Transformers
- Main Bus & Transfer Bus system
- 2 Incoming/outgoing 110 kV & 5 outgoing 20 kV feeders

Client: US Army Corps of Engineers (USACE)  
Prime Contractor: Assist Consultants Inc.  
🕒 Jun. 2016 to Dec. 2017 (scheduled)  
📍 Maiwand and Pushmol, Kandahar Province, Afghanistan



This is a project that will upgrade the high voltage power system in Kandahar, Afghanistan. Maiwand and Pushmol substations each shall have two 110 kV line bays, a 110/20 kV transformer rated no less than 20 MVA, a 20 kV yard with indoor switchgear. The objective of this project is to provide a cost effective, reliable power system for the distribution of electric power in Kandahar Province. Each substation shall be designed to support a 20 MVA transformer.

Novin Simia performed the erection, installation, testing and commissioning services for Maiwand and Pushmol substations.

## 220/20 kV Asqalan Substation

Northern Electrical Interconnect (NEI) Project, Asqalan Substation, Kunduz, Afghanistan

- Voltage Rate 220 kV to 20 kV
- 1×25 MVA, 50 Hz, Power Transformer
- Double Bus system
- 6 Incoming/outgoing 220 kV & 4 outgoing 20 kV feeders

Client: US Army Corps of Engineers (USACE)  
Prime Contractor: Assist Consultants Inc.  
🕒 Nov. 2016 to Sep. 2017 (scheduled)  
📍 Asqalan, Kunduz Province, Afghanistan



Asqalan Substation (220 kV system voltage) is being expanded to install a new transformer bay. The design utilizes the substation's existing space reserved for a future 220 kV bay and is expanding the substation yard to replace that existing reserved space. The substation expansion also includes design of a new 20 kV yard with indoor switchgear, connection to one 220/20 kV power transformer rated 25 MVA, one 20 kV line bay.

This project included the 28 km of double circuit 20 kV power distribution lines. The power distribution lines run from Asqalan Substation to the ANSF 209<sup>th</sup> Garrison and ANSF Border Police (BP) Airport Security.

This work is defined as the management, material, labor, and equipment to construct the facilities and related structures in accordance with the Scope of Work, the Technical Requirements/specifications, commercial terms, construction procedures, quality and safety norms and Client's requirement. Part of the work is provision of Spare parts as required by Client for all systems described above.





## Test & Commissioning of Substations

Novin Simia team of specialists provides efficient erection, testing and commissioning services of power transformers up to 220 kV and 110 kV. We are confident of commissioning jobs of any magnitude at highest level of complexity. Due to our access to advance technology, support of expert technical team and portable test instruments for testing and commissioning of electrical power system, we commission the project in the most efficient way and least timeframe. Furthermore, Novin Simia render this High Voltage Substation Erection, Testing and Commissioning Services to the clients at market leading rates. We own brand new professional testing devices in order to perform testing services necessary for commissioning of any substation project. In addition, our team of experts were received first class training abroad and are fully capable to operate such advanced testing devices.

These include erection and test services of electrification work of all equipment in substations such as power transformers, circuit breakers, disconnect switches, current transformers, capacitance voltage transformers, HV surge arresters, power cables and fiber optic cables.

- Switchyard Equipment Tests
- Power Transformer Tests
- Secondary Protection Relay Tests
- Launch Tele-communication and SCADA System



Novin Simia also has expertise in perform main earth grid, exothermic weld, test ground hole and tests on Transmission lines. Our team also do secondary protection relay tests, install and run telecommunication equipment and DCS/SCADA systems.

Our team of skilled engineers and technician carry out the services as per the requirements of the clients within the stipulated time period. Our professionals work with the clients in a coordinated manner to understand their specific requirements and offer them the best solutions that perfectly meet their needs.

## Transformer Installation and Testing at Gardez Substation

220/20 kV, 16 MVA Transformer Substation at Gardez, Paktia Province, Afghanistan

- Voltage Rate 220 kV to 20 kV
- 2 × 16 MVA, 50 Hz, Power Transformers
- Double Main Bus & Transfer Bus system
- 1 Incoming 220 kV & 4 outgoing 20 kV feeders

Client: US Army Corps of Engineers (USACE)

🕒 25 Sep. 2016 to 2 Feb. 2017

📍 Gardez, Paktia Province, Afghanistan

Novin Simia team successfully installed, vacuum, vacuum filling and also tested two 16 MVA Power Transformer such as: Insulation resistance test, Turn ratio test on all tap, Dynamic Resistance OLTC Test, Static Resistance Test, Winding Resistance Test, Continuity Test and Power Transformer Oil Test for this substation project.





# Electrical works at Shindand Airbase

Design and Implementation for multiple task orders

Novin Simia was actively involved in rehabilitation and re-construction of Shindand Airbase since April 2008, working as the electrical sub-contractor with multiple General Contractors both Internationals and Nationals.

## Task Orders 1 to 5

Another example of project experience of Novin Simia in power distribution tasks is the implementation of 17 km MV underground grid along with 18 set compact transformer station. Novin Simia was the electrical subcontractor to KAM Construction (General Contractor) in order to complete this task order for the project which was funded by US Army Corps of Engineers. The completion of this project was very important to provision and enhancement of the security to one of the key tactical air base facilities in Afghanistan.

The Client – US Army Corps of Engineers – put this news in its website as turning over a milestone project. "Our mission is to turn projects over and it is always a great thing to cut a ribbon on a facility with the quality products that were produced here," Mathew Walden, resident engineer and contracting officer for the project told the audience gathered for the ceremony at one of the site's guard towers.

## Task Order 6

The most recent task order under progress by Novin Simia in Shindand Airbase is Installation of 12 km MV underground cable 2500 kVA, 200 kVA, 16 set compact transformer stations. This project features power generation facility and power distribution network for Shindand Airbase in its entirety – completely one of a kind.

- 16 Set Compact Transformer Station
- 12 km MV underground cabling

Client: US Army Corps of Engineers (USACE) and US Air Force Center for Environment and Excellence (US AFCEE)

⌚ Apr. 2008 to Apr. 2014

📍 Shindand Airbase, Shindand Herat Province, Afghanistan

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Novin Simia demonstrated professionalism, exemplary performance and superb skills during the project in Shindand, Afghanistan.

*Cpt. (P) Sean C. Burnett,  
United States Army  
Officer in Charge Shindand RO*

- 56 Set Compact Transformer Stations
- 42 km MV Underground Cable
- 11 km LV Underground Cable
- 15 Set Generators installed

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In my 35 years of providing professional construction management services to this industry around the world, these guys (Novin Simia) are among the best I have ever worked with.

*Bob Harvey  
Construction Manager  
PRI/DJI Tetra Tech*





## Aino Mena Township Power Distribution

- 230 Sets Pole-Mounted Transformers
- 150 km Low Voltage ABC Cable
- 70 km Medium Voltage Overhead Line
- Installation of 5000 Concrete Power Poles
- 85 Set Compact Transformer Station
- 32 km Medium Voltage Underground

Client: AFCO International  
 Jun. 2012 to Dec. 2014  
 Aino Mena, Kandahar, Kandahar Province, Afghanistan



We have always been completely satisfied by Novin Simia's performance. They do an excellent job, are always punctual, and offer the most competitive rates.

*Rahmatullah Dilsoz,  
Office Manager, AFCO International*

Novin Simia was the prime contractor to design and implement the power distribution network in Aino Mena Township in Kandahar for 23,000 (twenty-three thousand) housing units in approximately 20,000 (twenty thousand) hectares area of construction. Major items in the scope of this project were to implement 70 km medium voltage overhead line distribution, 32 km Medium Voltage Underground, 160 km low voltage ABC cable distribution system and installation of 230 pole mounted transformers. Novin Simia deployed its professional and experienced cadre of personnel including engineers, technicians and skilled labor to proceed with the implementation of this project in rapid pace.



## Electrical Works for Afghanistan National Police (ANP)

City power connection to CTC/PD9 facilities in Kabul with capacity of 2000 kVA. Provision, manufacturing and installation of 20/15 kV MV Panels, 3200 A ATS, Main Distribution Panels, 600 kvar Capacitor Bank, 2000 kVA Transformer and MV overhead lines.

Design and implementation of electrical power system for ANP training facility in Herat -Installation of 2 MVA generator along with ATS.

Design and implementation of electrical power station of Camp Gibson in Kabul -installation of 2 x 1250 kVA generator sets.

Client: DynCorp International LLC  
 Mar. 2008 to Jul. 2010  
 Kabul and Herat Cities, Afghanistan



We want to thank you for being a key member of DynCorp Supply Chain and value proposition to our customers. Novin Simia continues to play a key role in aiding our ability to perform and effectively execute on our many programs across the globe.

*Gary Bailey  
VP Subcontractor Performance Management  
DynCorp International.*





Novin Simia

# PRODUCTION

- Compact Transformer Stations
- MV and LV Distribution Switchboards
- Cable Management Systems

NovinSimia  
PRODUCTION CO.



## Novin Simia PRODUCTION

Novin Simia Production division manufactures compact transformer stations, medium and low voltage switchboards (distribution and control), automatic/manual transfer switch panels, meter boxes, capacitor bank panels, and cable management systems (cable tray, cable ladder and cable rack). Customers include a wide range of industry and utility operations, plus commercial and residential buildings.



## MANUFACTURING FACILITIES

Novin Simia established two manufacturing facilities in Kabul and Herat Cities of Afghanistan. Both of these facilities are fully functional with high quality manufacturing equipment installed.

Each facility's footprint is suitable for quality and automated manufacturing equipment such as CNC punching machine and also well suited for bulk volume production.

Our facilities are located close to multiple custom points which will enable us to rapidly import required raw material and/or goods.

Having these two fully functional manufacturing facilities, strategically located in Kabul and Herat, Novin Simia is capable to respond to any Client's bulk-volume-request in rapid time.



### Herat Manufacturing Facility

- 5000 m<sup>2</sup> (53,820 ft<sup>2</sup>) Land Parcel
- 1600 m<sup>2</sup> Factory Area
- 240 m<sup>2</sup> Office Space
- Located in Herat Industrial Town Near Herat Interantional Airport

### Kabul Manufacturing Facility

- 4100 m<sup>2</sup> (44,132 ft<sup>2</sup>) Land Parcel
- 1600 m<sup>2</sup> Factory Area
- 250 m<sup>2</sup> Office Space
- Located in Pol-e Charkhi Industrial Parks, Near Kabul Interantional Airport
- 12,000 m<sup>2</sup> Land Parcel - possessed for future development at Sanaya Sabz Industrial Town, Barkiab, Kabul



## MANUFACTURING EQUIPMENT

Novin Simia uses high quality equipment and machinery in order to deliver high quality and safe products. Main equipment are provided from Europe. Following is list of main equipment, which Novin Simia uses for its production in Kabul and Herat:

- CNC Punching Machine
- Hydraulic Press Brake
- Hydraulic Swing-Beam Shear
- 6-Stage Pre-treatment System Painting System
- Electrostatic Powder Painting Equipment
- CNC Laser Labeling Machine
- Busbar cutting, bending and punching machine
- Routine Test Lab facility per latest IEC codes
- Painting Lab facility per ISOcodes
- Air Compressor



## APPLICABLE STANDARDS & TYPE TESTS

Novin Simia manufactures its products as per International Electrotechnical Commission's (IEC) Standard. Other Standards being applied for our products are UL, National Electrical Code (NEC), or NFPA 70 and National Electrical Manufacturers Association (NEMA). Details of Standard references for each product is mentioned in our "Product Data" package.

The most important factor of each manufactured product for Novin Simia is its quality and that it meets the applicable standards and the Client's expectation. Our extensive experience in production industry and using quality equipment, enable us to meet this highly important objective.

Our products are successfully type tested in Internationally Recognized Laboratories and successfully obtained UL, CE and TUV certifications.

## PAINTING LINE

Novin Simia uses electrostatic powder painting mechanism which is the applicable and standard method for coating metals in electrical industry. Using this approach results a hard finish that is tougher than conventional paint. The powder coating process involves three basic steps: part preparation or the pre-treatment, the powder application and curing.

Novin Simia uses 6-stage cleaning and pre-treatment using 6 tanks each with 3000 lit capacity. Tanks are equipped with hot water heat exchange mechanism. Economical design has been considered and the energy cost is significantly lowered using charcoal as the fuel for the boiler. The line is designed for both mild steel and galvanized steel; it is equipped with phosphate tank which uses zinc phosphate for non-galvanized product. Chromate in the final tank of surface conditioning which causes the best paint stickiness to the surface.

Curing Oven has indirect furnace; hot air circulation results the uniform heat distribution in the oven.

Using thermocouple permissible range of temperature in furnace and curing oven is controlled.







# TEST LABORATORIES

Novin Simia has electrical and painting test laboratories with advanced equipment for conducting routine tests of manufactured products. At Novin Simia we are capable to perform both electrical tests and physical tests and inspection in accordance up-to-date applicable International Standards.

## Electrical Test Laboratory

The laboratory is responsible for the electrical and mechanical routine tests based on IEC standards to which the mass production is subjected. These tests ensure that the components, manufacturing processes and finished products conform to the reference standards and product specifications.

The laboratory provides a wide range of equipment and experience in electrical and mechanical test for medium and low voltage products.

## Painting Test Laboratory

The tests in this laboratory are divided in two stages which each stage consists the specific tests. First the surface of panels will be tested. Before painting all surfaces should be degreased for optimal performance. Suitable pre-treatment such as zinc phosphate or iron phosphate will be applied for ferrous metal surfaces. Zinc phosphate or chromate will be applied for zinc coated metal surfaces. PH (potential of hydrogen) and Point of every solvent (degrease, phosphate and chromate) are specified by titration process in the lab. Next, after completion of painting process, each products or component will be tested for impact resistance, thickness of coating, flexibility of coating and adhesion of coating.



## OUR PRODUCTS

Novin Simia manufactures quality, standard and tested products in following four categories

### • Compact Transformer-Station (25 kVA to 2500 kVA)

### • Medium Voltage Products

- MV Withdrawable Switchgears
- Medium Voltage Switchboards (12 kV to 36 kV, 400–1000 A, GIS/AIS)
- MV Metering Switchboards (3.6 kV to 36 kV)
- MV Automatic and Manual Transfer Switch Panels (12 kV to 36 kV, 630–1250 A)



### • Low Voltage Products

- Low Voltage Control and Protection Switchboards for Substation (Up to IP 65 and 4000 A)
- Low Voltage Switchboards (Distribution, Control and Protection up to IP 65 and 4000 A)
- Low Voltage Meter Boxes (Up to IP 65)
- LV Automatic and Manual Transfer Switch Panels (Up to IP 65 and 4000 A)
- LV Capacitor Bank Panels with Automatic Controller (Up to 1200 kvar)

### • Cable Management Products

- Cable Tray Systems
- Cable Ladder Systems
- Cable Rack Systems

## Our Products for Substations

Novin Simia manufactures control and protection panels for distribution substations which includes:

- AC Distribution Switchboards
- DC Distribution Switchboards
- Bay Marshalling Kiosk Panels
- Junction Boxes
- Feeder Pillar Panels

- Bus Bar Protection Panels
- Cable Ladders & Cable Racks

Our products are designed and manufactured in custom built assemblies as per specification and requirement of project. The solutions from Novin Simia for energy automation offer a multitude of standardized configurations and functions for many typical tasks.



## Distribution Plant for Kabul South West (Dasht-e Barchi) Distribution Networks

This Project is financed by the Asian Development Bank (ADB) under Tranche-2. DABS – the National Power Utility – is the Executing Agency and the end user of the project. In addition, DABS aims to take over poorly maintained regional and local authority transmission and distribution networks in view of enhancing power quality in the country.

This distribution project scope basically includes design, supply, and installation of plant in distribution networks of Kabul Southwest (Dasht-e-Barchi). The main regions that will be covered in DABS 005 Project are Arghandi Bala, Arghandi Payan, Dasht-e-Barchi, Chonghar and Morghiran and Maidan Shahr. The number of consumers of different categories in Kabul Southwest (Dasht-e-Barchi) project areas is 25,000.

Novin Simia was responsible for design and manufacturing of LV distribution switchboards and meter boxes in accordance with IEC standards. All products were successfully type tested in TUV laboratory.

Source of Fund: Asian Development Bank (ADB)  
End User: Da Afghanistan Breshna Sherkat (DABS)  
Prime Contractor: FEKA Construction Industry and Trade Inc.

🕒 May 2015 to Nov. 2016

📍 Kabul, Afghanistan

Novin Simia manufactured and delivered following items:

- 1000 A LV Distribution Switchboard for Transformer 630 kVA, 29 Pcs
- 630 A LV Distribution Switchboard for Transformer 400 kVA, 111 Pcs
- 400 A LV Distribution Switchboard for Transformer 250 kVA, 47 Pcs
- 250 A LV Distribution Switchboard for Transformer 160 kVA, 76 Pcs
- Meter Box Type-1, 3070 Pcs
- Meter Box Type-2, 475 Pcs
- Meter Box Type-3, 885 Pcs
- Meter Box Type-3 Phase, 57 Pcs

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FEKA is fully satisfied with quality of products and response time of Novin Simia and would recommend this company for any similar contract. Novin Simia could complete the contracted scope of works within the specified time and budget. The Company has an outstanding manufacturing capability in Kabul with high quality production tools and equipment.

Emrah Boso,  
Project Manager  
FEKA Construction Industry and Trade Inc.



## Our Products for Da Afghanistan Breshna Sherkat (DABS)

Novin Simia manufactures electrical products in high quality and in accordance with International Standards such as but not limited to IEC. Hence, our products were accepted and used in numerous projects both in public and by private sector projects all over Afghanistan. We are honored to mention that DABS, as the Nation Power Utility – accepted and used our products. Moreover, Novin Simia have manufactured products directly for DABS under multiple contracts.

### Manufacture and Procurement of 250 Units LV Distribution Switchboards

Novin Simia designed, manufactured and delivered 250 units of LV distribution switchboards to DABS consisted of following items:

- 1250 A LV Distribution Switchboard for Transformer 800 kVA, 10 Units
- 1000 A LV Distribution Switchboard for Transformer 630 kVA, 50 Units
- 630 A LV Distribution Switchboard for Transformer 400 kVA, 80 Units
- 400 A LV Distribution Switchboard for Transformer 250 kVA, 80 Units
- 250 A LV Distribution Switchboard for Transformer 100 kVA, 30 Units

### Manufacture and Procurement of LV Distribution Switchboards and Electrical Accessories

Novin Simia designed, manufactured and delivered 181 units of LV distribution switchboards (200-1250 A) and procured electrical accessories to DABS.

Client: Da Afghanistan Breshna Sherkat (DABS)

🕒 Jul. 2014 to Dec. 2014

📍 Kabul, Afghanistan



### Manufacture and Procurement of Distribution Switchboards and Meter Boxes

Utilizing its manufacturing facility in Herat, Novin Simia completed following items for DABS in Herat. Design, manufacture and testing of LV distribution switchboards, procurement and supply of transformers, LV circuit breakers, load breaking switch/fuses and accessories for overhead transmission lines. Furthermore, and as part of another task order, Novin Simia manufactured and procured of 800 Units LV meter boxes. All items were accepted and used by Da Afghanistan Breshna Sherkat in Herat, Afghanistan.

Client: Da Afghanistan Breshna Sherkat (DABS) – Herat

🕒 Nov. 2015 to Feb. 2016

📍 Herat, Afghanistan

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Novin Simia's actions and professionalism reflected great credit upon their company and Da Afghanistan Breshna Sherkat.

Yousuf Anwari,  
Procurement Director  
Da Afghanistan Breshna Sherkat



## Electrical Works at Ministry of Defense

Design, manufacture, procurement and installation of main distribution panels and all panel boards for the headquarter building of Ministry of Defense in Kabul. Additionally, the company procured and installed transformers for the building.

- Distribution Transformers, 2500 kVA, 15/0.4 kV, 3 Pcs
- MV Distribution/Protection Panels
- MV Automatic Transfer Switch Panels
- 4000 A Main LV Distribution Panel (26 Cell)
- Power Transformers' Enclosures/Canopies
- LV Capacitor Banks, 650-1000 kvar
- LV Distribution and Control Panels, 40– 3200 A

Client: ITSI-Gilbane  
Project Owner: Ministry of Defense, Government of Afghanistan  
🕒 May 2011 to Dec. 2012  
📍 Ministry of Defense, HQ Building, Kabul, Afghanistan

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You (Novin Simia) have supported us with on-time deliveries, quality service, hassle free administration and competitive pricing, which have our company returning again and again to Novin Simia as a supplier who we can rely upon to give us good quality equipment and timely service at a fair price.

*John H. Eckford Jr.,  
Sr. Subcontracts Administrator,  
ITSI-Gilbane*



## Installation of Pad-mounted Transformers in Camp Zafar

Manufacturing and installation of 2 set 100-500 kVA 15/0.4 kV compact transformer station in 207<sup>th</sup> ANA Brigade – Camp Zafar in Herat

Client: Technologists Inc.  
Project Donor: US Army Corps of Engineers (USACE)  
🕒 Jan. 2010 to Dec. 2011  
📍 207<sup>th</sup> ANA Brigade, Herat, Afghanistan



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Novin Simia is an honest and dedicated company. Their hardworking and positive attitude has contributed greatly to their Company and our organization, and we have found them a great company for all electrical works.

*Mohammad Rafi Azimi  
Admin Deputy Director, Technologists Inc.*







Novin Simia

# RENEWABLE ENERGY

- PV-Solar
- Wind Farms

## RENEWABLE ENERGY

### Vision

The dwindling fossil fuel resources, and their associated greenhouse gas emissions that significantly contribute to the global warming, are encouraging nations to move toward Renewable Energy Sources (RES). Among the RES, Photovoltaics (PV) systems are one of the most economically viable options. In the recent years, economy of scale and subsidies from the governments have considerably reduced the cost per MWh of PV systems, and it can even compete with the conventional technologies, such as Coal and Nuclear.

In some situations, such as Afghanistan where the transmission and distribution networks are not well developed, investment in PV system is more beneficial than the centralized conventional technologies

In Afghanistan, approximately a quarter of the population is connected to the national grid and have access to electricity. Nonetheless, the Afghanistan National Grid, which consists of North East Power System (NEPS), South East Power System (SEPS) and some other islands can be considered as one of the most unreliable systems in the world with lots of power quality issues.

As a result, to increase the citizens' access to electricity, the Government of Afghanistan (GoA) and its international partners are planning to promote PV systems across the country. Thus, Afghanistan is one of the most suitable countries to start a renewable energy business.

### Objectives

Novin Simia Group will be actively involved in Afghanistan Renewable Energy projects, by having technical relationship with international companies who have qualifying experience on design, implementation and commissioning of renewable energy projects around the world. We also assigned a dedicated team of skilled personnel for renewable projects.



Novin Simia

## CLIENTS AND RECOMMENDATIONS

Our products and services have been used/installed in many major projects funded by variety of donors, and for several Clients/Customers including but not limited to Government of Afghanistan – Ministry of Energy and Water and Da' Afghanistan Breshna Sherkat (DABS) –, US Army Corps of Engineers (USACE), Asian Development Bank (ADB), and private sector.



Member of



Registered with



## TYPE TEST CERTIFICATIONS

Our products are type tested in Internationally recognized laboratories and successfully obtained UL, CE and TUV certifications.



## HISTORY

Novin Simia started its business in 2004 from Herat, Afghanistan. Since its establishment, Novin Simia successfully completed multiple projects throughout the Country. Since then Novin Simia developed and increased its production capabilities and successfully opened its second production facility in Kabul in 2008.

The company is experienced working with variety of donors, clients, customers and companies both internationally and locally. Our experience portfolio covers several projects successfully completed and handed-over to the National Power Utility. Moreover, Novin Simia's products used in projects funded and executed by International aid organizations such as Asian Development Bank, US Army Corps of Engineers (USACE), US Air Force (AFCEE). Furthermore, Novin Simia worked with international companies including DynCorp International, Environmental Chemical Corporation (ECC), Innovative Technical Solutions Inc. (ITSI), Tetra Tech, PRI.



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Kabul, Afghanistan

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